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THE AUSTRALIAN NATIONAL UNIVERSITY

ANNUAL REPORT

1999

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10 April 2000

The Hon. Dr David Kemp
Minister for Education, Training and Youth Affairs
Parliament House
CANBERRA ACT 2600

Dear Minister

Report of the Council for the period 1 January 1999 to 31 December 1999

We have the honour to transmit the report of the Council of The Australian National University for the period 1 January 1999 to 31 December 1999 furnished in compliance with Section 9 of the *Commonwealth Authorities and Companies Act 1997*.

Professor P E Baume
Chancellor

Professor R D Terrell
Vice-Chancellor

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Further information about ANU

Detailed information about the achievements of ANU in 1999, especially research and teaching outcomes, is contained in the annual reports of the University's research schools, faculties, centres and administrative divisions.

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The Council and University Officers

The Council

As at 31 December 1999

Chancellor

The Honourable Professor P E Baume, AO MD BS Syd, FRACP, FAFPHM (Hon), FRACGP

Pro-Chancellor

Dr A C Bennett, SC BSc (Hons) PhD Syd, LLB UNSW

Vice-Chancellor

Professor R D Terrell, BEc Adel, PhD ANU

Director, Institute of Advanced Studies and Chair, Board of the Institute of Advanced Studies

Professor F C Jackson, BA BSc Melb, PhD La Trobe, FASSA, FAHA

Chair, Board of The Faculties

Professor R M Pashley, BSc (Hons) Lboro, PhD ImpColl

President, ANU Students' Association

Mr R Egan, BEc ANU

President, Postgraduate & Research Students' Association Inc.

Mr O Jepps, BSc BA ANU

Four persons appointed by the Governor-General (Term — up to four years)

Mr I F Grigg, AM, BA ANU

Dr M S Keating, AC AO BCom (Hons) Melb, PhD ANU, FRAIPA, FASSA

(Two posts vacant)

One member of the Parliament appointed by the Governor-General on the nomination of the Prime Minister (Term — up to four years)

Senator J W Tierney, BEc DipEd MEd Syd, PhD Newcastle

One member of the Parliament appointed by the Governor-General on the nomination of the Leader of the Opposition in the House of Representatives (Term — up to four years)

Senator K Carr, BA(Hons) DipEd MA Melb

Two persons appointed by the Chief Minister of the ACT (Term — up to four years)

Justice Mary M Finn, BA LLB Qld

Mr M Delaney, BA La Trobe

One person who is either a dean or the head of a research school and is elected, in either case by the deans and the heads of the research schools voting together

Professor D J Evans, BSc Syd, PhD ANU, FRACI, FAA

One member of the academic staff of the Institute of Advanced Studies elected by the members of that staff

Professor D W Robinson, MA DPhil Oxf, FAA

One member of the academic staff of The Faculties elected by the members of that staff

Dr M Green, BSc UNSW, PhD ANU

Two persons elected by Convocation

Ms B M Arndt, BSc ANU, MPpsych UNSW

Mr D H Solomon, BA LLB (Hons) ANU

One member of the general staff of the university elected by members of that staff

Mr K J Lonsdale, AssocDipMechEng DDIAE, BTech USQ, PGCertCnflctMgt Macq

A co-opted member

Mr J F Muir, AO

University Officers

As at 31 December 1999

Chancellor

BAUME, Professor Peter, AO, BS MD *Syd*, FRACP, FAFPHM (Hon), FRACGP

Pro-Chancellor

BENNETT, Dr Annabelle Claire, SC BSc (Hons) PhD *Syd*, LLB *NSW*

Vice-Chancellor

TERRELL, Professor Richard Deane, BEc *Adel*, PhD *ANU*

Deputy Vice-Chancellor

RICHARDS, Professor John Alan, BE PhD *NSW*, FIREE, FIEAust, FIEEE, FTSE, CPEng

Pro Vice-Chancellor (Academic)

STANTON, Professor Robin Barrington, BE PhD *NSW*

Pro Vice-Chancellor (Administration)

BURGESS, Christopher William, BA (Hons) *Tas*

Director, Institute of Advanced Studies and Chair of the Board of the Institute of Advanced Studies

JACKSON, Professor Frank Cameron, BA BSc *Melb*, PhD *La Trobe*, FASSA, FAHA

Chair of the Board of The Faculties

PASHLEY, Professor Richard Mark, BSc (Hons) *Lboro*, PhD *ImpColl*

Dean, The Graduate School

HOOPER, Dr John, BA (Hons) *Syd*, PhD *Oxf*

Dean of Students

CORNISH, Selwyn Harcourt, BEc *WAust*

Director, Human Resources

FORD, Margaret Nona, BSc *Monash*, GradDipAdmin *CanberraCAE*

Director, Student Recruitment and International Education

BECKETT, Timothy, MA *Dub*

Director, Student Administration and Support Services

MILLER, Patricia, BSc (Hons) PhD *Manc*

Master of University House

Champion de CRESPIGNY, Richard Rafe, BA *Melb* & *ANU*, MA Oriental Studies PhD *ANU*, FAHA

Librarian

STEELE, Colin Robert, MA *Liv*, GradDipLib *Lond*, ALA, AALIA, KtCrossSpain

Director, Information Technology Services

ERSKINE, Robin, BSc PhD *Glas*

Director, Facilities and Services

WILLIAMS, Warwick Raymond, BSc *NSW*

Director, Finance and Business Services

BUNSELL, Alan Raymond, BAppSc *Canberra CAE*, FCPA

Director, Public Affairs Division

MAHONEY, James Scott, BA *ANU*, MPRIA

Director, Development Office

YVANOVIICH, Bruno, BSc *Flind*, MPubAdmin *Canb*

Director, Planning and Policy Coordination

ARTHUR, Robert Hugh, BA *ANU*

Legal Officer

HERRICK, Stephen Keith, Barrister & Solicitor

Director, Centre for Continuing Education

DONOVAN, William, BSc *Melb*, MEd PhD *Tas*

Officers for ceremonial occasions

Marshal

CORNISH, Selwyn Harcourt, BEc *WAust*

Esquire Bedell

BRAITHWAITE, Valerie, PhD *Qld*

Review of 1999

Three themes ran through the University's activities in 1999. The first was a theme of negotiation on many fronts including with staff and government on funding, policy, and employment conditions. The second was one of recognition where others, including the Australian Research Council, the Federal Government and private corporations, acknowledged the University's work and achievements.

The third theme, that of survival, reflected the Government's funding decisions of four years ago that generated the harsh administrative and financial conditions confronting the sector. The impact of those decisions reached its peak in 1999 but will continue for several years.

In each of its last four annual reports to the Parliament, the ANU has commented on the state of the sector, and on the enormous pressures staff and students face as a result. In the last 12 months little has changed: the system remains in crisis. Australia's commitment to a high quality university teaching and research system is being questioned at a time when competitor nations — the United Kingdom, the United States, Singapore, for example — are investing significantly in higher education and research.

At the end of a tough year, survival for the ANU has meant that its strategy of protecting academic areas from the full extent of the cuts to higher education, has enabled it to produce outstanding research results and very high quality education for its students. ANU has improved many of its management structures and processes. But all of this has been at the cost of losing experienced staff, principally in administrative and support areas.

The University's continued ability to deliver outcomes which reflect its unique national role depends on its success in responding to new policy settings on competitive research funding and on its ability to diversify its funding sources, two issues to which the Council and staff gave considerable attention during 1999.

The government released its policy statement on research and research training in December, following the release of the green paper *New knowledge, New opportunities* in June. ANU

pointed out to the government that while the green paper did not address the issue of achieving internationally competitive funding levels, the final policy would enhance the quality and competitiveness of Australian academic research through its emphasis on performance based funding.

In its response to the policy, ANU welcomed the decision to increase the number of HECS exempt postgraduate research training scholarships to cover all funded research training places. The policy also described the establishment of the Australian Research Council (ARC) — which funds a number of ANU research programs — as the independent body managing its competitive research programs. ANU's hope is that this means that program managers, selected on the basis of their research performance and excellence, international reputation and administrative ability, will ensure that ARC peer group reviews are of the highest quality and involve international experts. The Institute of Advanced Studies' (IAS) access to the new competitive research training schemes will provide further opportunities for the ANU's collaboration with research institutions and industry.

However, while it welcomed the government's commitment to basic research in the context of the new policy, ANU repeated its call for a review of funding support.

In April a paper prepared by the University, and endorsed by the Business Higher Education Round Table (BHERT), argued that Australia should spend an additional \$350 million on basic research if it was to capitalise on the opportunities created by new technologies, and remain a major player on the world scene. The paper argued that increased funding for basic research would bring economic benefits — particularly in increased employment in small to medium enterprises that would exploit the results of the research.

In November, Council authorised major changes in management practices in The Faculties to overcome financial difficulties. This followed recommendations from the Deputy Vice-Chancellor, Professor John Richards, supported by the Deans, after a review of The Faculties. While the new approach retains the six Faculties, the Deans will be required to cut costs, reduce deficits and bring about internal changes and

work towards removing inter Faculty degrees rule barriers which inhibit student flexibility in student choice. Other changes include appointed rather than elected Deans, accountabilities for Deans and heads of budget units, protocols for financial operations and administrative support. There is also financial boost for domestic and international student recruitment initiatives and greater opportunities for undergraduate students to experience the research environment in the Institute of Advanced Studies.

In mid-year the Vice-Chancellor announced broad consultations with all areas of the University that will lead to a Plan for Growth. The plan will be designed to foster enhanced cross-University links in research and teaching, strengthen cooperation in administrative areas to maximise student recruitment opportunities, and to diversify ANU's funding base. The Plan for Growth will be presented to Council in July 2000. During the second half of 1999 the Vice-Chancellor undertook a series of consultations with academic and administrative areas to identify priorities for the Plan for Growth. These consultations will extend into 2000.

The University took a strong public stand against the Voluntary Student Unionism provisions of proposed Commonwealth legislation. The proposed Bill would have changed the way general student fees are collected by Australian universities. In a submission to a Senate inquiry, and in letters to Senators and Members of the House of Representatives, the University pointed out that its Students' Association and the University itself provide services which can only satisfactorily and fairly delivered through universal charging. The submission argued that the ANU model for the collection of general fees respected the rights of students to choose whether or not they join organisations, but also ensured that amenities and services are provided in a fair and equitable way.

The University's reputation

ANU continues to enhance its academic reputation through advances in research and the honours bestowed on its staff.

The University's staff includes more members of the honoured academic societies than any other Australian university. In particular, the ANU has

12 Fellows of the Royal Society (FRS) on its academic staff. There are a further 20 FRS who are actively associated with the University. The ANU has by far the largest number of FRS in any Australian university.

One measurement of the university's reputation and standing in the national and international community is the willingness of many groups, organisations and individuals to recognise and enter into partnerships with the University. This year saw the network of relationships and recognition extended even further than previous years. Every one of the relationships and acts of recognition improves the standing of the University both nationally and internationally.

For example:

- ◆ The University was chosen as the host for the Australian Partnership for Advanced Computing (APAC) and Professor John O'Callaghan, CEO of the Collaborative Research Centre for Advanced Computer Systems, was appointed as its inaugural Executive Director. The Parliamentary Secretary to the Minister for Education, Training and Youth Affairs, Ms Worth, launched APAC in October. APAC — with a \$19.5 million Commonwealth Government allocation — will establish a peak computing system at ANU that will be five times larger than any system available at Australian universities. This peak system will be linked with major computing facilities in the USA to allow supercomputing access to researchers anywhere in Australia.
- ◆ In April the Deputy Prime Minister and Minister for Trade, Mr Fischer, was guest of honour at a dinner to celebrate the establishment of the Rajiv Gandhi Chair in South Asian Economics. At the dinner, the Foundation supporters, National Mutual Holdings Pty Ltd, the ANZ Bank and P&O Australia were all made distinguished members of the ANU Endowment for Excellence. The naming of the Chair in honour of the later Rajiv Gandhi acknowledges his important leadership role both in India and in the rest of South Asia, especially in encouraging economic reform and promoting closer relationships between Australia and the South Asia region.

- ◆ The first graduates of the Australia Asia Management Centre's executive education program with Ericsson (China) were presented with their awards at a ceremony in Beijing.
- ◆ The Motor Trades Association of Australia (MTAA) signed a Memorandum of Understanding with the University to provide four bursaries and prizes for students in the economics, commerce and public policy fields.
- ◆ Microsoft presented a Technology Innovation Award to the University for the innovative use of Microsoft technology in the implementation of its Enterprise Solution Project to replace existing administrative systems.
- ◆ Participants in the Department of Defence's Defence & Industry Study course visited the University in April to discuss emerging science and technology that will have an impact on national development. The course has been offered since the early 1950s. It is a national senior management development program for people from the public and private sectors who have been identified as having the potential to reach senior management positions. At ANU, the 100 participants visited the John Curtin School of Medical Research (to discuss work on an AIDS vaccine) and the Research School of Physical Sciences and Engineering (where development work is underway on a new plasma antenna which could be invisible to radar).
- ◆ The Australian Orthopaedic Foundation and the University signed an agreement in December which established the ACT Orthopaedic and Musculoskeletal Research Foundation under the ANU's Endowment for Excellence. The Foundation is a new type of relationship for ANU as it focuses on a specific branch of medical science, rather than basic medical research or population health.

The Foundation aims to raise \$200,000 to be used to monitor outcomes of procedures, (especially major joint replacement) and to encourage research. While most of the work of the Foundation will be with the National Centre for Epidemiology and Population Health and the John Curtin School of Medical Research, areas of the University as diverse as the Faculty of Engineering and Information Technology have applications to orthopaedic research.
- ◆ The University was chosen as the venue for the June Round Table meeting of 10 Deans from Korean universities. The Korean Ministry of Foreign Affairs and Trade conducts the Round Table series and the ANU meeting included a series of discussions with the University's academics.
- ◆ Two new scholarships to help indigenous or disadvantaged students pursue a career in computing were announced in October by Mastech Asia Pacific. The scholarships will be awarded from next year. Each is valued at \$10,000.
- ◆ The Business Education Round Table awarded an Outstanding Achievement Award in the Collaboration in Education and Training Category the Centre for Public Awareness of Science. The award was won in collaboration with Questacon — the National Science and Technology Centre and Shell Australia.
- ◆ The University will get the benefits of collaboration with US based researchers under an agreement signed in September between Australian Advanced Internet Research and Education Program (AAIREP) and Internet2. The agreement will provide the basis for Australian and US based researchers to work together towards establishing high performance Internet connectivity between Australia and the US using the next generation of Internet technologies. AAIREP is a national program involving three organisations — AARNet (The Australian Academic and Research Network which includes representatives of Australia's 37 universities and CSIRO), the CRC for Advanced Computational Systems and the Australian Partnership for Advanced Computing. Internet2 is a project of the University Corporation of Advanced Internet Development in the USA.
- ◆ In 1999 the ANU Chapter of the Golden Key Society won an Honourable Mention, Key Chapter Award for the contribution that it made to achieving Golden Key Society objectives. This was the fourth consecutive

year that it has won a Key Chapter Award. The chapter was awarded the host venue for the Asia-Pacific conference in February 2000.

The honorary degree of Doctor of Laws was conferred on Her Excellency Sheikh Hasina, Prime Minister of the People's Republic of Bangladesh, at a special ceremony in October.

Professor Michael Coper, Dean of the Faculty of Law, was elected as a full member of the prestigious American Law Institute.

Students Anthea Roberts and Stephen Rebikoff returned from a student exchange to Oxford University during 1999. They were the first ANU students to take part in the 12-month exchange under a 1996 agreement. Anthea won the Oxford Union Debating Moynihan Plate, a university wide competition. Three other ANU students participated in the exchange during 1999.

Enrolments

ANU maintained its entrance standards for undergraduate degrees for the fifth year in a row and continued to have a high median entrance score for new undergraduate students.

In 1999 the University had a total enrolment of 9,648 students compared with 9,644 in 1998. The proportion of postgraduate students in 1999 exceeded 25 percent, slightly higher than 1998. Of these, some 1,256, or 52% (55 percent in 1998), were enrolled for research higher degrees, including 1,138 for a PhD. Some 998 were enrolled for coursework or graduate diploma courses. Undergraduate students in 1999 at 7,235 were some 60 places less than the previous year. The majority (6,883) were enrolled for the degree of bachelor; a smaller number were enrolled for diploma, associate diploma, and other courses.

Total student load for the University in 1999, expressed as *equivalent full-time student units*, was 8,372. Of the total, DETYA funded operating grant load made up 6,805 EFTSU, compared with a DETYA overall target of 6,820, while the undergraduate component of operating grant load was 5,923, slightly above the DETYA target of 5,905. This compares with an operating grant load in 1998 of 7,031 EFTSU and an undergraduate operating grant load of 5,997. Of non-operating grant load, full-fee paying overseas load was

1,002 EFTSU (895 in 1998). Non overseas tuition fee load, postgraduate and undergraduate, was another 564 EFTSU (393 in 1998).

	Students		Total Load		Operating Grant Load	
	1999	1998	1999	1998	1999	1998
<i>Postgraduate</i>						
	2413	2348	2035	2006	882	1034
<i>Undergraduate</i>						
	7235	7296	6337	6313	5923	5997
Total	9648	9644	8372	8319	6805	7031

Academic and student initiatives

Students and academic staff pushed into new fields of endeavour in 1999 and continued to post achievements which received international recognition.

In May the University's Institute of Advanced Studies offered up to seven IAS Fellowships to start in the year 2000. The scheme attracted a very high quality field of applicants and Fellowships were subsequently awarded to four female applicants and one male applicant.

A Planning Committee was established to advise the Vice-Chancellor, as part of the rolling triennial budget process, on funding allocations to Schools and Centres in the Institute of Advanced Studies; and to advise the Vice-Chancellor on future research directions and priorities for the Institute of Advanced Studies as a whole, and on research policy and strategic planning in general.

Work by Dr Brian Schmidt and his team at the Mount Stromlo Observatory of the Research School of Astrophysics and Astronomy, and Saul Perlmutter and the Supernova Cosmology Project team at the Lawrence Berkeley National Laboratory, was recognised among the ten most important advances in science research in the Science Magazine Breakthrough of the Year awards in the USA.

In a first for an Australian academic institution, the University's Centre for Cross Cultural Research received a grant of \$313,000 from the US-based Getty Grant Program. The Grant will support the compilation of a comprehensive reference book on indigenous Australian art. Led by Professor Joan Kerr, with Dr Sylvia Kleinert and Ms Margo Neale as editors, the project will involve strong

collaboration with indigenous writers and artists. To be published by Oxford University Press, it will be titled *The Oxford Companion to Aboriginal Art and Culture* and will include major essays, a reference section and 400 illustrations. It has received funding from the Gordon Darling Foundation (\$30,000) and the Aboriginal and Torres Strait Islander Commission (\$25,000).

A new foundation within the University's Endowment for Excellence, the Herbert and Valmae Freilich Foundation will fund the study of, and research into, the causes, histories and effects of ethnic, cultural, religious or sexual bigotry and animosity. The aim of the Foundation — established in July 1999 — is to advance all forms of mutual tolerance and respect between people of different ethnic, cultural and religious backgrounds and of differing genders and sexual orientation.

The University's Countrywide Access Scheme, which helps disadvantaged students to gain access to university courses, celebrated its tenth anniversary in 1999. Over the past 9 years 144 students have enrolled in the course of their choice at ANU as a result of the program. School leavers who are disadvantaged by geographical isolation, lack of school facilities, or financial and emotional problems, can apply for consideration under the program. In recent years the number of students applying has more than doubled.

The Australia Council awarded a two-year \$80,000 Fellowship to Canberra poet and ANU's 1999 H.C. Coombs Creative Arts Fellow, Mark O'Connor to record the Olympic Games in verse.

In July Professor Frank Fenner celebrated the 50th anniversary of his appointment as the founding Professor of Microbiology at the John Curtin School of Media Research. Professor Fenner is internationally recognised for his work with viruses. He played a key role in the eradication of smallpox — regarded by many as the greatest ever achievement in international public health. In the 1960s Professor Fenner was appointed as adviser and then Chairman of the Global Commission for the Certification of Small pox Eradication. In 1979 the Commission reported that smallpox had been eradicated. The

University's Fenner Hall, on Northbourne Avenue, is named after Professor Fenner as recognition of his contribution to the University.

The Mount Stromlo Observatory celebrated its 75th year in 1999. In 1957 the Observatory became part of the University and now enjoys full research school status as the Research School of Astronomy and Astrophysics. Achievement over the 75 years have included unravelling the nature of the solar corona, the discovery of the Local Supercluster, the first recorded microlensing event in a survey for dark matter, and collaborations using the Hubble Space Telescope and instrumenting the new Gemini telescopes.

The Faculty of Engineering and Information Technology presented engineering scholarships valued at almost \$57,000 in 1999. The scholarships were provided by ANUTECH, BHP, Airservices Australia, Andersen Consulting and Telstra.

Information technology company Advantra agreed in May to fund a series of scholarships and prizes in the Faculty of Engineering and Information Technology valued at \$17,000. Advantra will fund three scholarships in the honours year where there are now 14 students. It is expected that the Advantra scholarships will encourage the Faculty's best students to stay on for the honours year.

A team from Faculty of Law won a \$75,000 grant from the Centenary of Federation Council for a reference work on the High Court of Australia. The work will be published in 2001 at the Centenary of Federation as the *Oxford Companion to the High Court of Australia*.

Up to 20 students could benefit from an agreement between the University and Burgmann College to jointly fund accommodation bursaries and scholarships. Burgmann College provides residential accommodation for students and is sponsored by the Anglican, Uniting, Presbyterian, Church of Christ and Baptist churches. The \$400,000 in bursaries and scholarships will be funded through the University's Endowment for Excellence.

A \$2 million research and postgraduate teaching agreement was signed with Telstra in June. Under the collaborative agreement — financed by Telstra — ANU scientists in the Variation and Management Group in the Engineering Department of the Faculty of Engineering and

Information Technology will train Telstra staff in methods to increase productivity and to maximise flexibility in meeting changes in external conditions. Four Masters students in the innovative Master of Engineering (Industry) will be funded under the agreement.

The ANU Students Association and the Postgraduate and Research Students Association this year provided the first part of \$1 million over five years to help needy regional and interstate students with accommodation on campus. The funds come from the associations' allocation from the ANU's General Service Fee Scheme and are matched on a three-for-one basis by the University's Endowment for Excellence, making a total invested amount of \$4 million. A total of 129 accommodation bursaries were provided in 1999 in a scheme that is the only one of its type that uses a student's financial situation, rather than academic merit, as the criteria.

Under an agreement initiated by the Research School of Social Sciences, Australian universities will have better access to social data from the Australian Bureau of Statistics (ABS). Under the agreement, 30 universities will make a bulk payment to ABS of \$170,000 for access to Australian household survey data. This means university researchers will have access to the ABS Confidential Unit Record Files which contain unidentifiable record data for social and labour household surveys.

The Juvenile Diabetes Foundation in July announced that it would provide \$300,000 to fund research at the John Curtin School of Medical Research on insulin producing tissues. The research led by Dr Charmaine Simeonovic focuses on the transplantation of insulin providing pancreatic islet tissue as a treatment for Type 1 diabetes. Successful transplantation would eliminate the need for insulin injections.

The former partners in the Cooperative Research Centre for Robust and Adaptive Systems Limited (CRASys) have created two Scholarships and Research Endowment Grants. CRASys, which conducted cutting edge research and development in signal processing, control systems and telecommunications, closed in June following an unsuccessful bid for funding. However, the CRC partners, ANU, Defence Science & Technology

Organisation, BHP and Boeing Australia, have agreed to support doctoral students to take up extended study in area such as signal processing and networking.

Almost 2000 students graduated from the University with degrees or diplomas at four ceremonies in April and two in October.

Research performance

The University's research programs continue to forge ahead — breaking new ground in collaborative efforts with governments, industry and the private sector, and in new areas of knowledge. ANU's research capacity is recognised as an international leader.

One indication of this leadership is in the allocation of Australian Research Council (ARC) grants in the 2000 funding round. The University received 31 new ARC Large grants worth \$4.769 million over three years, compared with 24 new grants in 1999 which were worth \$3.75 million over three years. ANU's success rate for the round was 34.4% — higher than any other Australian university. The average success rate was 22%.

Excluding the Institute of Advanced Studies (which is ineligible to apply for ARC Large Grants), the University, through the success of The Faculties, received more Large Grant funding in new grants per academic staff member than any other university.

The University won 14 Fellowships in the ARC funding round as well as seven postdoctoral fellowships and three Queen Elizabeth II Fellowships.

In 1999, the University won 12 Strategic Partnership with Industry Research and Training Grants (SPIRT). In the 2000 round, the University tripled that result in dollars — winning 15 grants worth \$2.175 million. The funding includes 11 Australian Postgraduate Awards and two Australian Postdoctoral Fellowships for research collaboration with industry. This represents a 75% success rate compared to 44.9 per cent nationally.

The University received one of the 15 grants available under the Indigenous Researchers Development Scheme, and three grants under the International Researchers Exchange Scheme.

ANU received four Research Infrastructure (Equipment and Facilities) Grants totalling \$1.16 million. The University is a partner in another six grants totalling \$885,000.

The University will receive \$1.3124 million in ARC Small Grant funding — compared with \$1.313 in 1999.

The University was successful in four Collaborative Research Centre applications. The four are:

- ◆ CRC for Terrestrial Carbon Accounting — based at the Research School of Biological Sciences. Partners include Australian Greenhouse Office, Bureau of Rural Sciences, CSIRO, Queensland Department of Natural Resources and Primary Industries, State Forest of NSW, Western Australian Conservation and Land Management and the Australian Greenhouse Network and several corporations and environment groups)
- ◆ CRC for Tropical Plant Protection — based in Brisbane with strong participation from the Research School of Biological Sciences. Jointly funded by Rhone-Poulinc Inc.
- ◆ CRC for Pest Animal Control — based at CSIRO Wildlife and Ecology. Joint projects Research School of Biological Sciences, BaMBi, John Curtin School of Medical Research.
- ◆ CRC for Photonics — based in Sydney one of the largest CRCs. Partners include Universities of Sydney, Melbourne, and New South Wales, RMIT, TAFE and 24 companies for the next seven-year phase.

Pharmaceutical company Glaxo Wellcome will fund leading research by the Experimental Haematology Group at the John Curtin School of Medical Research. The three-year commercial agreement is worth \$800,000 to a research program which focuses on the body's immune response to attacks by illness. Under the agreement there will be a two-way exchange of data, resources, technologies and ideas. For example, ANU researchers will have access to the Glaxo Wellcome gene analysis technology while Glaxo Wellcome will have access to a ready-made gene library at ANU.

Resource issues

Enterprise bargaining negotiations took up a large amount of the University's time, effort and resources in 1999.

In July after six months of negotiation with the four unions representing general and academic staff, the University decided to pay an immediate 3% above-award wage increase from July outside the enterprise bargaining negotiations. Staff were told at that time that the University was not prepared to ask them to wait for any longer for a pay increase as talks had stalled. In August, the unions called a 48-hour strike and while it did not stop teaching and research, it had some effect on students who were preparing for examinations. The strike drew attention to the University's obligations under the Workplace Relations Act not to pay employees who engage in industrial action.

Enterprise bargaining negotiations concluded at year's end with an agreement on a 12.5% increase in salaries — including the 3% already paid — over three years. Under the package a 2% salary increase would be paid in September 2000, 3% in September 2001, 4.5% in September 2002. The agreement will include a job security clause, provisions for staff to take part of their current 17% employer contribution to superannuation as a salary increase, a streamlined process for handling change in the workplace and an agreement on annual performance assessment.

The agreement ended all industrial action that the unions had planned — including withholding students' results.

The physical environment

The University's approach to its property portfolio is that every building must serve the core business of research and its commercialisation, teaching and community outreach.

ANU's 1999 purchase of the building at 52 Collins Street, Melbourne is an illustration of this approach. The top floor of the building, to be named ANU House, Melbourne, will be used for advanced seminars and postgraduate teaching, as a facility for working with potential partners for research commercialisation, and for other university purposes. The other 10 floors are fully let to commercial tenants.

The Vice-Chancellor, Professor Terrell, named the P.A.P. Moran Building in a ceremony that included the unveiling of a plaque to in memory of the late Emeritus Professor Pat Moran. The building

honours a colleague whose training and encouragement of his many students in the field of mathematics carried the name of ANU all over the world.

Sir Roland Wilson's widow, Lady Wilson, unveiled a commemorative plaque at the Sir Roland Wilson building in April. The Prime Minister, Mr Howard, officially opened the building, which houses the Australia Asia Management Centre, the Graduate Program in Public Policy, and the Australian National Internships Program, in August.

The Minister for Immigration and Ethnic Affairs, Mr Ruddock, opened the Centre for the Study of Chinese Southern Diaspora in February. Professor Wang Gungwu, Director of the East Asia Institute of the National University of Singapore and formerly Vice-Chancellor of the University of Hong Kong gave the inaugural address. Professor Wang Gungwu is a former member of the University and was made an honorary Doctor of Laws in 1996

Dr Roland Williams, President of the Business Higher Education Round Table and former Chief Executive of Shell Australia, opened the new Innovations Building in November. It has been designed as a "incubator building" to encourage research activities that have commercial applications and to foster greater links between the University and industry. One of the occupants is the Australian subsidiary of the US private medical research foundation, Inotek Corporation. The Australian CEO is ANU researcher Professor Kevin Lafferty. Inotek expects to invest up to \$2 million in research and development in Australia.

In September The University handed over the deeds of the property The Edge near Braidwood to the Duke of Edinburgh Awards Scheme. The property had been given to the University by Judith Wright McKinney in the 1970s to be used in the teaching and research in biology, botany, and zoology. The Duke of Edinburgh Scheme will use the property in its natural heritage education programs. The University agreed that the new and expanded use of the property was in keeping with the spirit of the generous gift of Mrs Wright McKinney. ANU also passed on \$4000 to the Scheme to assist in future maintenance of the property.

Following completion of the new Student Services Building during the year, the ANU Students Association moved its offices and student support services to new premises.

The Commercial Law Centre within the Faculty of Law was opened in May. Established to focus on a growing area of legal practice, the Centre will bring together wide-ranging legal expertise within the Faculty and strengthen ties with practicing commercial lawyers and the business community. It will facilitate the exchange of ideas and keep the Faculty's teaching and research relevant to commercial practice.

The Centre for Tax Systems Integrity opened at the Research School of Social Sciences in October. In applying research to the Australian taxation system, the centre fulfils a University mandate for public policy advice to government.

The information environment

The University continues to pursue its major priority of developing a forward-looking information infrastructure. A comprehensive policy to guide the further development of this infrastructure was finalised in 1999. The policy addresses four high priority challenges: (a) providing systems which facilitate learning, (b) establishing frameworks to support research, collaborations and publications; (c) the management of scholarly information and the transformation of library services; and (d) responding to globalisation of higher education and building partnerships. Implementation of the policy will mean that academic administrative infrastructures will be brought together to form an integrated system to support research, teaching and learning activities. A new Division of Information will be established.

The introduction of new technology for a University-wide approach to administrative computing continued: the financial system was commissioned and work progressed on the introduction of the human resource modules. A new student administrative system, and a convocation and advancement database, will follow. This \$18m enterprise solution, for which Peoplesoft is the main technology supplier, is being implemented over five years.

In January, the University's Library became the first Australian subscriber to the world's largest online library information network, the Online Computer Library Centre's Electronic Collections Online. It offers ANU staff and student's access to 2000 journals from 40 publishers and the full text of 300 serials in an integrated package. This electronic access maintains the University's leading role in providing full text electronic research material to its students and staff.

Improved, direct communications with all members of the University's staff were introduced during the year through the use of internal e-mail and web-based systems.

A coordinated effort throughout 1999 ensured that the University's computing systems experienced no problems as a result of the year-end date change.

Outreach to the community

During 1999 academic and general staff worked with the community in many different ways.

In addition to their University teaching and research duties, many members of the academic staff were engaged in teaching activities in local schools and in exchanges and cooperative teaching and research with other Australian and international universities. Academic staff continued to advise business and other organisations. They were actively sought by the local, national and international media as expert commentators on public issues and international research findings.

Staff and students in the Schools of Art and Music in the Institute of the Arts extended their academic programs and research to the broader community through concerts and exhibitions and direct teaching programs with schools and community groups. Some staff travelled overseas for teaching, research and performances. Students from the School of Music provided the musical programs for ANU's conferring of degree ceremonies and for special ceremonies to confer honorary degrees, as well as for a number of significant functions outside the University.

More than 16,000 people visited the 15 exhibitions at University's Drill Hall Gallery. The Australian drawing Biennale, initiated by the Gallery, travelled to Perth and Brisbane. The

National Gallery of Australia loaned 78 of its works for the Drill Hall's exhibition, *A Tribute to William Dobell*, which was also supported with works from the Australian War Memorial and the Art Gallery of NSW. The exhibition was held in conjunction with the annual William Dobell Lecture, sponsored by the ANU's Faculty of Arts.

Works from ANU's art collection were loaned for several exhibitions organised outside the University. One work was included in the National Gallery of Australia's exhibition, *Aboriginal Art in Modern Worlds*, which is touring Europe in 2000.

ANU staff in the Research School of Social Sciences and The Faculties were closely involved in organising and presenting the Deliberative Poll on the Republic — demonstrating the concentration of expertise in political science and public policy at the University. The Poll, the first of its type in Australia, attracted considerable media attention.

The University was again involved in the Australian Science Festival, through an exhibition involving several science areas, and coordinated by the Public Affairs Division. The Science Forum in ANU's Llewellyn Hall, attended by 1500 people, and which is part of the University's annual Public Lecture series, was recorded by the ABC Radio's The Science Show. Science communicators from the Centre for the Public Awareness of Science (CPAS) were on hand at all Festival events in a variety of roles from coordinating workshops to reporting for the media. The Festival attracted 50,000 visitors to Canberra.

One of the highlights of the Science Festival was an Open Day at Mt. Stromlo Observatory. It attracted 300 visitors and gave the community an opportunity to take a close look at research and to talk to astronomers and instrument makers. The Open day featured a visual arts program created by Joan Brassil and presented jointly with the Canberra School of Arts, CSIRO, the National Gallery of Australia, Questacon and the Contemporary Art Space.

Mayors and General Managers from local government in Southeastern NSW met at the University in July as the Regional Leaders Forum. The Vice-Chancellor gave the Forum an outline of the University's education and research initiatives in the Region — and underlined the

need for a broadband information technology infrastructure to enable higher education to reach more effectively into the region.

The ANU Open — part of the ANU Chess Festival — attracted its strongest-ever field of players in July. More than 100 players competed in the ANU Open with more than 200 school pupils competing in the ANU Schools Chess Championship. A strong field of Australian and New Zealand computer chess programmers competed against each other in the National Computer Chess Championships.

The annual Lions Oratory contest, sponsored by ANU, went into its fourth year in 1999 with 40 entries. The participants deliver a 10 minute planned speech on historical figure her personifies the human values of truth, righteousness peace love and non-violence.

More than 1200 in 150 teams from 45 primary and secondary schools gathered at the University in August for the annual Tournament of the Minds, sponsored by ANU. They presented the solutions to problems in three categories — language and literature, social science, and mathematics and engineering.

In September more than 80 high school students from the region met at the University for three days of the 'Siemens Science and Engineering Experience'. Aimed at improving the students' understanding of science and technology, the program also encourages students to take an interest in science as a career. The Siemens Program is supported by universities throughout Australia, the Australian Science Teachers Association, the Young Scientists of Australia, and Rotary International Clubs.

Council

Senator K Carr joined the Council on the nomination of the Leader of the Opposition, replacing Mr R C Sercombe.

Mr R Egan replaced Ms H Stitt on the Council following his election as President of the ANU Students' Association.

Mr O Jepps replaced Mr S Niemeyer on the Council following his election as President of the Postgraduate and Research Students' Association.

Convocation re-elected Ms B Arndt and Mr D Solomon to Council.

Honours and Awards

Arts Faculty

Dr Malcolm Ross was elected Vice President of the Australian Linguistic Society in September.

Professor Paul Thom was elected to the Fellowship of the Australian Academy of the Humanities (FAHA).

Asian Studies Faculty

Dr Iletto Reynaldo won the Philippine National Book Award (History) in September, 1999, for his 1998 book, *Filipinos and their Revolution: Event, Discourse, and Historiography* (Ateneo University Press). Reference to this book was included in the University of Hawaii Press catalogue in mid-1999.

Mr Preecha Juntanamalaga was awarded the Order of the Golden Sema, bestowed by HRH Princess Sirindhorn in Bangkok on 24 May 1999. The award recognises Mr Juntanamalaga's outstanding service to Buddhist communities in Australia.

Economics and Commerce Faculty

Professor Russell Craig received the Vice-Chancellor's Award for Teaching Excellence 1999.

Engineering and Information Technology Faculty

Dr Michael Green received the Vice-Chancellor's Award for Teaching Excellence 1999.

Science Faculty

Dr Brian Lees was elected to the Land Victoria Fellowship, University of Melbourne and awarded the Eminent Individual Award by the Australasian Urban and Regional Information Systems Association (Auris).

Biological Sciences, Research School of

Dr Paul Kriedemann and joint editors, received 1999 Australian Publishers Award for best tertiary level textbook for *Plants in Action*.

Dr Linda Franklin was awarded the RSBS-BAMBI Faculty of Science Teaching Fellowship.

Professor Brian Gunning elected an Honorary Member of the Royal Irish Academy in March.

Dr T Maddess received the Australian Technology Award (University Sector) for development of a new and commercialised diagnostic technology for the eye disease glaucoma.

Professor Ian Noble elected to the Australian Academy of Technological Sciences and Engineering.

Dr Michael Roderick awarded the Haldane Prize for the best manuscript submitted to *Functional Ecology* for 1999 by the British Ecological Society.

Professor Barry Rolfe awarded French Government Scientific Fellowship.

Dr Stephen Roxburgh was awarded the inaugural RSBS-ANU Forestry Department Teaching Fellowship.

Mr Ray Thomas received Barney John Award for outstanding service to RSBS.

Ms Michelle Watt received Australian Society of Plant Physiologists' Award for Student Talk, Annual Meeting, Gold Coast, Queensland, September 1999.

Chemistry, Research School of

Professor Martin Banwell was awarded a Senior Alexander von Humboldt Foundation award to be taken up during 2000-2001, and was also awarded a Japan Society for the Promotion of Science Fellowship presenting lectures in Hiroshima, Fukuoka, Himeji, Nagoya, Toyama, and Tokyo.

Dr Chris Easton was awarded the Birch Medal by the Organic Division of the Royal Australian Chemical Institute. This medal is the highest award given by the Organic Division of the RACI. Dr Easton was the co-author, with Professor Stephen Lincoln, University of Adelaide, of the book: *Modified Cyclodextrins — Scaffolds and Templates for Supramolecular Chemistry*, published by Imperial College Press, London.

Professor Denis Evans was awarded the S F Boys-A. Rahman Lectureship for 2000/2001 by the Royal Society of Chemistry, UK.

Dr Jason Harper, who completed his PhD in 1999 under Dr Chris Easton's supervision, was awarded a C J Martin Fellowship by the NH&MRC, and will

spend the two years as a postdoctoral fellow at Cambridge University.

Ms Belinda Haupt, a postgraduate student in Dr Edith Sevick's group, was awarded the 1999 RACI O'Donnell Young Scientist Prize.

Mr Duncan McGillivray, an honours student in Professor John White's group, won the New Zealand Rhodes Scholarship.

Mr Ken McRae, of Professor Martin Banwell's group, was the recipient of a postgraduate scholarship at the Southern Highlands Conference on Heterocyclic Chemistry.

Dr Jason Smith, of Professor Martin Banwell's group, received an AMRAD postdoctoral award that included a medallion and grant.

Dr Richard Welberry was The Lonsdale Lecturer at the International Union of Crystallography Congress in Glasgow, Scotland, in August.

Professor John White became President Elect of the Royal Australian Chemical Institute (RACI) and will be President in 2001.

Dr Bruce Wild was awarded an Alexander von Humboldt Foundation Fellowship of twelve months to be taken up between 2000 and 2002.

Dr Ray Withers was the Iberdrola Visiting Professor in the Departamento de Fisica de la Materia Condensada of l'Universidad del Pais Vasco, Bilbao, Spain, from 29 April-30 July.

Social Sciences, Research School of

Australian Dictionary of Biography

Professor K Inglis won the New South Wales Premier's Prize for Australian History, the Ernest Scott Prize, the Fellowship of Australian Writers' Prize for Literature, and *The Age* Book of the Year award for *Sacred Places. War Memorials in the Australian Landscape*.

Professor J Ritchie was elected an honorary fellow of the Royal Australian Historical Society.

Demography Program

Dr F Al-Yaman won the L T Ruzicka Prize for the best master of population studies student.

Mr Y Kinfu, doctoral student, was awarded the 1999 W D Borrie Essay Prize for 'Below Replacement Fertility in Tropical Africa? Some Evidence from Addis Ababa'.

Mr J Lasen won the C A Price Prize for the best master of arts student in demography.

Economics Program

Mr R Dennis, doctoral student, won the Best Presentation Award at the 1999 PhD Conference in Economics and Business.

Dr D Dharmapala was awarded a one-year postdoctoral fellowship at the Center for Basic Research in the Social Sciences, Harvard University.

Professor A Pagan was the recipient of the Economic Society of Australia Distinguished Fellow Award.

Ms J P Smith, doctoral student, won the 1999 Brian Frost Prize for Gambling Research (\$5,000), awarded by the Australian Institute for Gambling Research.

Mr A Wait, doctoral student, was awarded a special student scholarship by the Graduate School of Arts and Sciences, Harvard University.

History Program

Professor B Higman was awarded the Elsa Goveia Prize by the Association of Caribbean Historians for the best book on Caribbean history published in 1997 and 1998 for his book *Montpelier, Jamaica: A Plantation Community in Slavery and Freedom, 1739–1912*.

Dr P Pickering was awarded an ARF/QE II fellowship for a project entitled 'Democratic voices: the impact of British democrats on colonial political, social and cultural development c.1840–1901'.

Law Program

Dr A W Martin was made a Member of the General Division of the Order of Australia (1998).

Political Science Program

Ms N Lahoud, doctoral student, was nominated as an exchange student to Oxford University, England. Associated with the nomination is a bursary of \$3,000 offered by the Vice-Chancellor.

Dr M McKenna was awarded an ARF/QE II fellowship for a project entitled 'A sceptical democracy: the idea of 'the people' in Australian politics 1788–2001'.

School Administration

Mr C Marshall, school secretary, was awarded a Council Medal for General Staff Excellence in recognition of his outstanding contribution to achieving the goals of the ANU, both through his work in RSSS and in the wider University community.

Social and Political Theory Group

Professor H G Brennan was awarded the Duncan Black Memorial Prize for the best article published in 1998 in the journal *Public Choice*. The prize-winning article, 'Expressive Voting and Electoral Equilibrium', was co-authored with Professor A Hamlin of University of Southampton.

Professor P Pettit had his book *Republicanism: A Theory of Freedom and Government* selected by the library journal *Choice* as an 'Outstanding Academic Book'.

Urban and Environmental Program

Dr T Bonyhady was awarded a fellowship at Yale University.

Dr B Gleeson and coauthor Dr N Low (University of Melbourne) were awarded the Sprout Award by the International Studies Association for their book *Justice, Society and Nature: An Exploration of Political Economy*. Dr Gleeson also won the Peter Harrison Memorial Prize, Category Two (National Urban Planning and Development), for his essay 'Reflexive Modernisation: The Re-enlightenment of Planning'.

Dr S Marsden was awarded an honorary life membership of the Oral History Association of Australia on the occasion of its twentyfifth anniversary.

Dr P Read was awarded an Australian Research Council senior research fellowship 2000–2004, for a project entitled 'The sacralisation of ordinary space'.

Professor P Troy gave the Royal Australian Institute of Architects Annual Walter Burley Griffin Memorial Lecture.

**Asia Pacific School of Economics and
Management**

Professor R Garnaut (jointly with the Division of Economics, RSPAS) was appointed Honorary Professor by the Chinese Academy of Social Sciences.

Australia South Asia Research Centre

Dr Ric Shand, felicitated by the President of India, 8 December, Chennai, India.

Economics Division

Dr H Smith was ANU's selected representative at the inaugural Asia Pacific Rim Universities Fellows Program, 'Interdisciplinary Perspectives on the Asia Economic Downturn' at the University of California, Berkeley; Kyoto University, Kyoto and Chulalongkorn University, Bangkok.

Pacific and Asian Studies, Research School of

Pacific and Asian History, Division of

J Taylor was a co-recipient of the 1999 RSPAS 50th Anniversary Award.

Prof G Ward was elected President, Pacific Science Association.

Society and Environment, Division of

Anthropology, Department of

M Sakai was awarded a special research grant (\$5,000) from ADFA, University of New South Wales.

Archaeology and Natural History, Department of

Prof G Hope was awarded degree of Doctor of Science, University of Melbourne.

Dr M O'Connor was appointed Olympic 2000 Official Poet.

Dr S O'Connor was awarded an Australian Research Council QEII Fellowship 1999–2003.

Gender Relations Project

Prof M Jolly was elected as Fellow to the Australian Academy of the Social Sciences.

Dr A Whittaker was invited membership on the Council of Asian Studies Association in Australia.

Human Geography, Department of

L Malam won the Geography Prize for best 1998 Honours thesis, University of Newcastle, NSW.

Council and Council Committees

Number of meetings and Members' Attendance for the period 1/1/99 to 31/12/99

COUNCIL

Number of Meetings: 9

<i>Name of Member</i>	<i>Number of Attendances</i>
Professor P E Baume (Chair)	9
Dr A C Bennett	8
Professor R D Terrell	9
Professor F C Jackson	8
Professor R M Pashley	9
Ms H Stitt (to 30/11/1999)	8
Mr O Jepps	9
Professor E A Bourke	3
Mr I F Grigg	7
Dr M S Keating	8
Senator J W Tierney	5
Mr R C G Sercombe (to 16/08/1999)	3
Senator K Carr (from 13/10/1999)	2
Justice M M Finn	7
Mr M Delaney	9
Professor D J Evans	7
Professor D W Robinson	8
Dr M Green	9
Mr K J Lonsdale	8
Ms B Arndt	9
Mr D H Solomon	9
Mr J F Muir	9
Professor H Nelson (18/6/99 to 23/7/99)	1
Mr R Egan (from 1/12/1999)	1

COUNCIL COMMITTEES

Buildings and Grounds Committee

Number of Meetings: 8

<i>Name of Member</i>	<i>Number of Attendances</i>
Mr R B Lansdown (Chair)	8
Professor M Neutze	8
Professor D Williams	5
Dr J Banks	7
Professor J W White	5
Professor D F Nicholls	5
Mr K Lonsdale (to 4/5/1999)	2
Ms P Bleakley (from 5/5/1999)	4
Mr B Rolfe (to 18/7/1999)	4
Mr B Scott (from 19/7/1999)	1
Ms H Stitt (from 21/7/1999)	1
Mr W Mackerras (from 22/7/1999)	4
Mr L J Blood	8
Mr P Gerner	6
Miss P M Griffin	8
Mr C Burgess	5
Professor E A Bourke	3

Committee Against Sexual Harassment

Number of Meetings: 4

<i>Name of Member</i>	<i>Number of Attendances</i>
Professor J A Richards	4
Mr R C G Sercombe	0
Dr A Hopkins	4
Dr E Ormerod	3
Mr S Cornish	3
Professor J Stapleton	4
Dr B David	3
Ms R Dundas	2
Ms R Waller	3
Ms R Austin	4
Ms S Todd	2
Ms K Foster	3

Committee on Conditions of Appointment of the Vice-Chancellor and Deputy Vice-Chancellor

Number of Meetings: 1

<i>Name of Member</i>	<i>Number of Attendances</i>
Professor P E Baume	1
Dr A C Bennett	1
Mr J F Muir	1

Emergency Appointment (Vice-Chancellor) Committee

Number of Meetings: 0

Finance Committee

Number of Meetings: 7

<i>Name of Member</i>	<i>Number of Attendances</i>
Mr J F Muir (Chair)	7
Professor R D Terrell	7
Mr C W Burgess	6
Professor J A Richards	7
Professor F C Jackson	7
Professor R M Pashley	7
Ms H Stitt	7
Mr O Jepps (to 16/7/99)	3
Ms M Buxton (from 17/7/99)	4
Mr R C G Sercombe (to 16/08/1999)	0
Senator K Carr (from 13/10/1999)	0
Senator J W Tierney	2
Mr I F Grigg	4
Dr A C Bennett	4
Mr K J Lonsdale	2
Dr L A Brodribb	6
Mr L Spencer	4
Professor H Nelson (18/6/99 to 23/7/99)	1
Mr W Williams (27/9/99 to 8/10/99)	1

General Services Fee Committee

Number of Meetings: 2

<i>Name of Member</i>	<i>Number of Attendances</i>
Professor J L Warhurst	2
Mr C W Burgess	2
Dr M Green	2
Justice M M Finn	1
Mr S Cornish	2

Ms H Stitt	2
Ms M Buxton	2
Ms P C Weeks	2

Standing Committee of Council

Number of Meetings: 1

<i>Name of Member</i>	<i>Number of Attendances</i>
Dr A C Bennett (Chair)	1
Professor R D Terrell	0
Professor F C Jackson	0
Professor R M Pashley	1
Mr J F Muir	1
Mr O Jepps	1
Ms H Stitt	0
Ms B Arndt	1
Mr D H Solomon	1
Mr I F Grigg	0
Professor J Richards (Acting Vice-Chancellor 3/6/99 to 15/6/99)	1

Audit Committee

Number of Meetings: 5

Name of Member, Position held within University, Special Responsibilities, Number of Attendances

Dr L A Brodribb Chair, Audit Committee; Member, Finance Committee	5
Dr M S Keating Member of Council; Member, Audit Committee	3
Mr J F Muir Member of Council; Chair, Finance Committee; Member, Standing Committee of Council; Member, Audit Committee; Member, Committee on Conditions of Appointment of the Vice-Chancellor and Deputy Vice-Chancellor; Member, Emergency Appointment (Vice-Chancellor) Committee	4
Mr D Lawle Member, Audit Committee	2
Mr L Spencer Member, Audit Committee	3

University Statistics

University Staff (FTE*), by Funding Source, Area, Staff Type, Level and Gender, at 31 March 1999

ACADEMIC STAFF	Full-Time Equivalent Staff					Gender		Sub Total	Part Time Teachers	Total
	A	B	Level			F	M			
			C	D	E					
Operating Grant & Fees										
IAS	80	83	86	86	117	83	369	451	1	452
FACULTIES	21	99	121	67	40	76	272	348	41	389
ITA	7	38	18	2	3	29	39	68	18	86
CENTRES	3	3	7	7	8	10	19	28	2	31
CENTRAL UNITS	.	3	4	2	.	2	7	9	.	9
ADMINISTRATION	1	.	.	.	4	1	4	5	1	5
<i>Sub Total</i>	<i>111</i>	<i>225</i>	<i>237</i>	<i>164</i>	<i>172</i>	<i>200</i>	<i>708</i>	<i>909</i>	<i>63</i>	<i>972</i>
Other Funding										
IAS	49	27	7	3	3	25	64	89	0	89
FACULTIES	36	26	7	6	3	19	58	77	3	80
ITA	.	.	.	.	.	.	.	.	.	.
CENTRES	13	9	12	4	6	19	23	42	0	42
CENTRAL UNITS	1	.	.	.	.	.	1	1	.	1
ADMINISTRATION	.	.	.	.	.	.	.	.	1	1
TRADING AREAS	.	.	.	.	1	.	1	1	6	6
<i>Sub Total</i>	<i>98</i>	<i>61</i>	<i>26</i>	<i>12</i>	<i>12</i>	<i>63</i>	<i>146</i>	<i>209</i>	<i>10</i>	<i>219</i>
All Funding										
IAS	129	109	93	89	120	108	432	540	1	541
FACULTIES	57	125	128	73	43	95	329	425	44	469
ITA	7	38	18	2	3	29	39	68	18	86
CENTRES	16	12	19	11	14	29	42	71	2	73
CENTRAL UNITS	1	3	4	2	.	2	8	10	.	10
ADMINISTRATION	1	.	.	.	4	1	4	5	1	6
TRADING AREAS	.	.	.	.	1	.	1	1	6	6
All Academics	209	286	262	176	185	263	855	1118	72	1190

GENERAL STAFF	Full-Time Equivalent Staff					Gender		Sub Total	Casual	Total
	Admin	IT	RO/RA	Tech	Other	F	M			
Operating Grant & Fees										
IAS	191	41	75	315	47	319	350	668	23	692
FACULTIES	110	18	6	69	3	116	89	204	13	217
ITA	33	1	.	12	.	28	18	46	11	57
CENTRES	32	3	.	.	.	29	5	34	1	35
CENTRAL UNITS	148	58	2	.	.	138	69	207	14	222
ADMINISTRATION	286	4	.	19	59	201	167	368	40	408
<i>Sub Total</i>	<i>799</i>	<i>124</i>	<i>83</i>	<i>414</i>	<i>109</i>	<i>831</i>	<i>697</i>	<i>1528</i>	<i>102</i>	<i>1630</i>
Other Funding										
IAS	14	1	10	22	2	28	20	48	10	58
FACULTIES	8	6	16	7	.	15	22	37	36	72
ITA	.	.	.	0	.	.	0	0	0	1
CENTRES	16	1	15	.	0	27	6	33	12	45
CENTRAL UNITS	3	3	.	.	.	2	4	6	0	7
ADMINISTRATION	.	.	.	.	.	.	.	1	1	1
TRADING AREAS	72	.	0	.	62	81	52	134	51	184
<i>Sub Total</i>	<i>113</i>	<i>10</i>	<i>41</i>	<i>30</i>	<i>64</i>	<i>153</i>	<i>105</i>	<i>258</i>	<i>110</i>	<i>368</i>
All Funding										
IAS	204	42	85	338	49	347	370	717	33	750
FACULTIES	118	23	22	76	3	130	111	241	48	289
ITA	33	1	.	12	.	28	18	46	11	58
CENTRES	48	4	15	.	0	56	11	67	13	80
CENTRAL UNITS	151	61	2	.	.	140	73	214	14	228
ADMINISTRATION	286	4	.	19	59	201	167	368	40	408
TRADING AREAS	72	.	0	.	62	81	52	134	51	184
All General Staff	912	134	124	444	173	984	802	1786	211	1997

GRAND TOTAL:

Full-Time Equivalent Staff, Part-Time Teachers & Casuals	1247	1657	2904	284	3188
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Source: DETYA staff data collection 1999.

* FTE = Full Time Equivalent.

Includes: full-time and fractional full-time staff according to positions current at 31 March, 1999

For part-time teachers and casuals: actual 1998 data is used to estimate 1999.

TEACHING AND RESEARCH ACADEMIC STAFF (FTE*)

	E	D	Level C	B	A	Visitor	Total
Institute of Advanced Studies							
Research School of Biological Sciences	.	.	1	.	.	.	1
John Curtin School of Medical Research	.	.	1	.	.	.	1
Research School of Pacific and Asian Studies	.	.	.	1	.	.	1
Research School of Social Sciences	1	.	4	2	.	.	7
Research School of Physical Sci. and Engineering	.	1	.	.	.	.	1
Research School of Astronomy and Astrophysics	.	.	.	2	.	.	2
Centre for Resource and Environmental Studies	.	.	1	.	.	.	1
School of Mathematical Sciences (IAS)	.	1	0	.	.	.	1
Total Institute of Advanced Studies	1	1	6	5	0	0	12
University Schools and Centres							
Asia Pacific School of Economics and Management	4	4	7	3	1	.	18
Humanities Research Centre	.	.	.	.	1	.	1
Nat. Cen. for Epidemiology and Population Health	.	.	.	1	.	.	1
Total University Schools and Centres	4	4	7	4	2	0	20
The Faculties							
Arts	11	23	37	23	3	.	97
Asian Studies	3	5	8	12	2	.	30
Economics & Commerce	5	9	17	17	8	.	55
Engineering & Information Technology	2	6	11	9	4	.	32
Law	7	6	10	10	.	.	33
Science	12	16	36	27	5	.	95
School of Mathematical Sciences (Faculties)	1	4	5	3	.	.	12
Total Faculties	40	68	122	100	21	.	352
Institute of the Arts	3	2	18	38	6	1	68
Total The Faculties	43	70	140	138	27	.	419
Total Teaching and Research	48	75	153	146	29	1	451

Source: DETYA staff data collection 1999

* FTE = Full Time Equivalent.

Includes: full-time and fractional full-time staff according to positions current at 31 March, 1999

STAFF (FTE*) FINANCED FROM RECURRENT FUNDS, 1995–1999

Activity	1995	1996	1997	1998	1999
Academic Activities					
Research Only					
Academic	515	497	500	458	451
Non-academic	883	854	777	713	703
Sub-total	1,398	1,350	1,277	1,172	1,153
Teaching and Research					
Academic	560	560	533	511	481
Non-academic	309	304	306	290	276
Sub-total	869	864	839	801	756
TOTAL Academic Activities	2,268	2,215	2,117	1,972	1,910
Academic Services**	295	289	238	217	229
General University Services***	507	496	416	406	411
GRAND TOTAL	3,070	3,000	2,770	2,596	2,550

Source: DETYA staff data collection 1995–1999

Includes: full-time and fractional full-time staff, part-time teachers and casual staff;

For full-time and fractional full-time staff, positions current at 31 March 1995–1999 are used;

For part-time teachers and casuals: actual data is used for 1995–1998;

1999 is estimated by 1998 figures, 1990–1994 are estimated by 1995 figures.

* FTE = Full Time Equivalent

** Comprises CEDAM, ITS, Library, Graduate School, Noel Butlin Archives; and (while recurrently funded) Animal Services and IRU.

*** Comprises Administration, Student Services, Facilities and Services

RESEARCH ONLY ACADEMIC STAFF (FTE*)

	Level					ARC					Total
	E	D	C	B	A Visitors	E	D	C	B	A	
Institute of Advanced Studies											
Research School of Biological Sciences	13	7	15	17	15	.	.	.	.	.	66
Research School of Chemistry	7	10	6	5	21	1	.	1	.	1	54
Research School of Earth Sciences	7	8	7	11	1	.	.	.	.	1	37
Research School of Information Sci. and Engin.	4	4	4	7	.	.	.	.	.	1	21
John Curtin School of Medical Research	10	10	16	7	39	.	.	.	.	2	86
Research School of Pacific and Asian Studies	23	16	15	10	5	.	.	.	.	.	71
Research School of Social Sciences	24	5	6	10	12	2	.	.	.	.	60
Research School of Physical Sci. and Engineering	14	16	14	11	3	1	.	.	1	4	70
Research School of Astronomy and Astrophysics	6	6	2	4	4	.	.	.	.	.	22
Centre for Resource and Environmental Studies	3	3	1	2	2	.	.	.	.	.	10
School of Mathematical Sciences (IAS)	9	3	2	6	1	.	.	.	.	7	32
Total Institute of Advanced Studies	119	86	87	88	103	4	0	1	1	16	528
University Schools and Centres											
Asia Pacific School of Economics and Management	1	.	2	1	1	.	.	.	.	.	4
Centre for Cross-Cultural Research	2	.	.	.	4	.	.	.	1	1	12
Humanities Research Centre	2	.	.	.	.	.	1	.	.	.	3
NH&MRC Psychiatric Epidemiology Research	2	.	2	.	1	.	.	.	.	.	5
Nat. Cen. for Epidemiology and Population Health	2	5	7	1	4	.	.	.	.	.	19
Centre for Aboriginal Economic Policy Research	1	1	2	5	.	.	.	.	.	.	8
Total University Schools and Centres	10	6	12	7	10	0	0	1	1	1	51
The Faculties											
Arts	.	.	.	.	.	.	3	.	.	.	5
Asian Studies	.	.	.	.	.	.	.	1	.	.	1
Economics & Commerce	.	.	.	.	.	.	.	.	.	0	0
Engineering & Information Technology	.	.	.	1	1	.	.	.	.	3	7
Law	.	.	.	.	.	.	.	.	.	1	1
Science	.	2	2	10	14	2	.	1	2	10	55
School of Mathematical Sciences (Faculties)	.	.	.	.	.	.	.	1	.	.	1
Total The Faculties	.	2	2	11	15	2	3	2	3	14	73
Total Research Only	129	93	100	105	127	6	3	4	5	31	652

Source: DETYA staff data collection 1999

* FTE = Full-Time Equivalent.

Includes: full-time and fractional full-time staff according to positions current at 31 March, 1999

ENROLMENTS 1999

	Full-Time	Part-Time	Total
EXCLUDING FULL FEE PAYING INTERNATIONAL			
PhD Courses			
Institute of Advanced Studies	335	34	369
Centres	43	18	61
The Faculties (including ITA)	339	96	436
Total	717	148	865
Master's Degree Courses			
Institute of Advanced Studies	11	14	25
Centres	51	33	84
The Faculties (including ITA)	101	182	283
Total	162	229	391
Graduate Diploma Courses			
Institute of Advanced Studies	2	10	12
Centres	5	53	58
The Faculties (including ITA)	203	171	374
Total	210	234	444
Undergraduate Courses			
Bachelor Degrees	5529	1057	6586
Diploma	61	36	97
Total	5590	1093	6683
Other Enrolments			
Master (Qualifying)	1	0	1
Graduate Certificate	4	20	24
Cross-Institutional	32	133	165
Non-award	16	53	69
Total	53	206	259
TOTAL EXCLUDING FULL FEE PAYING INTERNATIONAL	6732	1910	8642
FULL FEE PAYING INTERNATIONAL			
Postgraduate	650	19	669
Undergraduate	321	16	337
TOTAL FULL FEE PAYING INTERNATIONAL	971	35	1006
GRAND TOTAL — ALL STUDENTS	7703	1945	9648

DEGREE & DIPLOMA COURSES COMPLETED (as at 31 December 1998)

	Males	Females	Total
Doctor of Philosophy	156	75	231
Master by Research	21	13	34
Master by Coursework	141	119	260
Graduate Diploma	181	195	376
Bachelor with Honours	172	225	397
Bachelor Pass	530	654	1184
Graduate Certificate	5	5	10
Diploma	8	2	10
Associate Diploma	4	11	15
Total	1218	1299	2517

UNDERGRADUATE STUDENT ENROLMENTS 1999
Including Full Fee Paying International Students)

COURSE	FULL-TIME			PART-TIME			ALL UNDERGRADUATES		
	Male	Fem	Sub-T	Male	Fem	Sub-T	Male	Fem	TOTAL
Actuarial Studies	46	25	71	2		2	48	25	73
Actuarial Studies/Commerce	18	19	37				18	19	37
Actuarial Studies/Economics	20	11	31				20	11	31
Arts	291	480	771	111	298	409	402	778	1180
Arts — Art History	5	28	33	1	10	11	6	38	44
Arts — Australian Studies	1	3	4		1	1	1	4	5
Arts — Development Studies	8	17	25	3	6	9	11	23	34
Arts — European Studies	4	11	15	3	1	4	7	12	19
Arts — Policy Studies	10	7	17	10	6	16	20	13	33
Arts/Asian Studies (Sp)	15	46	61		2	2	15	48	63
Arts/Commerce	42	19	61	4	3	7	46	22	68
Arts/Economics	37	37	74	6	4	10	43	41	84
Arts/Law	167	346	513	5	8	13	172	354	526
Arts/Science	122	203	325	17	37	54	139	240	379
Arts/Visual Arts	1	9	10				1	9	10
Asian Studies	44	58	102	13	17	30	57	75	132
Asian Studies (Sp)	19	38	57	3	5	8	22	43	65
Asian Studies (Sp)/Commerce	11	14	25				11	14	25
Asian Studies (Sp)/Economics	14	21	35		1	1	14	22	36
Asian Studies (Sp)/Law	12	46	58				12	46	58
Asian Studies (Sp)/Science	11	21	32				11	21	32
Asian Studies (Sp)/Visual Arts		6	6		1	1		7	7
Asian Studies/Arts	26	57	83	1	6	7	27	63	90
Asian Studies/Commerce	13	28	41	1	4	5	14	32	46
Asian Studies/Economics	15	17	32	2	2	4	17	19	36
Asian Studies/Engineering	3	3	6	2		2	5	3	8
Asian Studies/Law	11	38	49				11	38	49
Asian Studies/Science	9	19	28	2	1	3	11	20	31
Commerce	130	127	257	22	19	41	152	146	298
Commerce/Economics	130	95	225	14	6	20	144	101	245
Commerce/Engineering	27		27		3	3	27	3	30
Commerce/Information Technology	96	30	126	5	3	8	101	33	134
Commerce/Law	82	77	159		1	1	82	78	160
Economics	52	27	79	16	5	21	68	32	100
Economics/Information Technology	20	3	23	2		2	22	3	25
Economics/Law	64	41	105	2	2	4	66	43	109
Engineering	67	15	82	4	4	8	71	19	90
Engineering, Software	18	1	19				18	1	19
Engineering/Economics	14	4	18	3		3	17	4	21
Engineering/Information Technology	105	10	115	8		8	113	10	123
Engineering/Science	78	16	94	2		2	80	16	96
Information Technology	33	5	38	5	1	6	38	6	44
Information Technology Commerce	1		1	1		1	2		2
Information Technology Information Syst.	26	8	34	10	4	14	36	12	48
Information Technology Science	1		1	1		1	2		2
Information Technology Software Engin.	87	13	100	27	1	28	114	14	128
Law	19	32	51	6	7	13	25	39	64
Law (Graduate)	59	67	126	23	27	50	82	94	176
Science	294	320	614	83	84	167	377	404	781
Science (Forestry)	45	32	77	8	1	9	53	33	86
Science (Forestry)/Economics	7	3	10	1		1	8	3	11
Science (Res&Env Management)	48	53	101	19	13	32	67	66	133
Science/Commerce	29	39	68	3	1	4	32	40	72
Science/Economics	31	20	51	2	3	5	33	23	56
Science/Law	52	81	133		2	2	52	83	135
Science/Science (Forestry)	7	8	15				7	8	15
Music	69	80	149	2	2	4	71	82	153
Visual Arts	111	202	313	1	12	13	112	214	326
Diploma	38	25	63	10	26	36	48	51	99
Non-Award & Cross-Institutional	38	45	83	65	105	170	103	150	253

HOME REGION OF OVERSEAS STUDENTS 1999

COUNTRY	POSTGRADUATE				UNDERGRADUATE			TOTAL	
	PhD Masters	Grad Dip& Grad Cert	Other	Sub Total	Bach	Other	Sub Total		
FULL FEE PAYING									
ASIA									
SE Asia									
Indonesia	27	31	9	12	79	18	18	97	
Malaysia	7	3	3		13	44	44	57	
Singapore	4	8		1	13	25	25	38	
Thailand	8	9	6	4	27	23	23	5	
Vietnam	11	7	5	4	27	5	5	32	
Laos			3	5	8	2	2	10	
Other SEA		1	3	4	8	1	1	9	
East Asia									
China	31	12	44	4	91	11	11	102	
Hong Kong	4	4			8	43	43	51	
Macau						2	2	2	
Japan	25	13	6	3	47	8	1	56	
Korea — South	5	1	1		7	20	1	28	
Korea — North			1		1			1	
Taiwan	2	2	2		6	10	10	16	
South Asia									
Bangladesh	6	5	6	8	25	6	6	31	
India	9	1	1		11	7	7	18	
Pakistan	4	1		1	6	1	1	8	
Sri Lanka	4	1	3	1	9	4	4	13	
Other Asia	4	9	5	8	26	2	2	28	
Total Asia	151	108	98	55	412	232	3	235	647
Europe									
Germany	15	2	1	1	19	3	2	5	24
Netherlands	6			1	7	1		1	8
U.K. (inc. Northern Ireland)	13	3	1		17	2		2	19
Former U.S.S.R.	9			2	11	1		1	12
Other Europe	17	1		1	19	11	1	12	31
Total Europe	60	6	2	5	73	18	3	21	94
Pacific									
Fiji	3	2	2	2	9	6		6	15
PNG	6	6	6	7	25	4		4	29
Philippines	9	19	17	9	54	4	1	5	59
Other Pacific	3	6	4		13	4	1	5	18
Total Pacific	21	33	29	18	101	18	2	20	121
America									
Canada	11	3		1	15	1		1	16
U.S.A.	19	9	3	1	32	6	32	38	70
South America	2	4			6	5		5	11
Total America	32	16	3	2	53	12	32	44	97
Africa	3	8	2	4	17	10		10	27
Middle East	2				2	2		2	4
Other	4	1	4	2	11	5		5	16
Total Full Fee Paying	273	172	138	86	669	297	40	337	1006
NON-FULL FEE PAYING									
New Zealand	65	3	3		71	21		21	92
Total Non Full Fee Paying	65	3	3		71	21		21	92
TOTAL INTERNATIONAL	338	175	141	86	740	318	40	358	1098

Cooperation with Government and other public institutions

The Australian National University encourages members of the academic staff to give specialist advice and assistance to Federal and State Government departments and to other public institutions, both within Australia and internationally. This help takes many forms — consultancies, membership of committees, involvement in particular projects, secondments, etc. The following list records such cooperation for 1999. This is not necessarily comprehensive.

Institute of Advanced Studies

Astronomy and Astrophysics, Research School of

BESSELL, Prof M S, president, Australian Astronomical Society; member, National Committee for Astronomy; member, Executive, IAU Commission 29; member, AAO Schmidt Telescope Panel; reviewer, 'New Zealand's Capability to build a spectrograph for SALT':

COLLESS, Dr M, chair, Scientific Organizing Committee and Local Organizing Committee, Second Coral Sea Cosmology Conference; chair, Advisory Committee on Instrumentation for Anglo-Australian Telescope; member, Australian Gemini Science Advisory Committee; chair, 6dF Science Advisory Group.

Da COSTA, Dr G S, president, IAU Commission 37; Australian Gemini Project Scientist; chair, Committee of Gemini Offices; member, Gemini Instrument Forum; member, Gemini Science Committee; chair, Australian Gemini Science Advisory Committee; member, Australian Time Allocation Committee; member, Scientific Organizing Committee, Joint Discussion 5 'Mixing and Diffusion in Stars: Theoretical Predictions and Observational Constraints', IAU General Assembly; member, Scientific Organizing Committee, 'Extragalactic Star Clusters', IAU Symposium proposal.

DOPITA, Prof M A, member, NASA Science Oversight Committee for the Wide Field Camera-3; president, IAU Division VI & Commission #34 on Interstellar Matter; chair, IAU Executive

Committee Working Group for International Development of Antarctic Astronomy; member, Scientific Organising Committee, IAU Symposium #205, Galaxies and their Constituents at the Highest Angular Resolutions; member, Scientific Organising Committee, IAU Joint Discussion #11, First Results of the FUSE Mission; member, Board of Editors, *Astrophysics and Space Science*; member, Visiting Committee of the Capodimonte Observatory; member, Antarctic Astronomy Working Group.

FRANCIS, Dr P J, member, Astronomical Society of Australia Education sub-committee; member, MSO Exploratory Board; consultant WWW Astrophysics Course design for Swinburne University.

FUX, Dr R, member, IAU Commission 33: Structure & Dynamics of the Galactic System; consultant, National Geographic Society Millennium Map of the Milky Way.

JERJEN, Dr H, coordinator, Optical follow-up program of the Parkes all-sky 21cm survey.

KALNAJS, Dr A J, chair, AAS-DDA Brouwer Award Selection Committee; member, Australia Telescope Time Allocation Committee.

McGREGOR, Dr P, member, Editorial Board, Publications of the Astronomical Society of Australia; member, Scientific Organising Committee, Eta Carinae and Other Mysterious Stars — The Hidden Opportunities of Emission-Line Spectroscopy.

MOULD, Prof J R, chair, Anglo-Australian Telescope Board; Board member, Association of Universities for Research in Astronomy Inc; member, Australian Academy of Science National Committee of Astronomy; member, Australian Academy of Science National Committee on Space Research; member, Australia Telescope National Facility Steering Committee; member, National Committee for Space Science; member, ACT Science & Technology Council; Fellow, Australian Academy of Science; member, Editorial Board, *Institute of Physics Encyclopaedia of Astronomy & Astrophysics*.

SEVENSTER, Dr M, member, Australia Telescope Users' Committee.

Biological Sciences, Research School of

Bioinformatics

TRUEMAN, J W H, co-author, Giant Dragonfly *Petalura gigantea* Recovery Plan, NSW National Parks and Wildlife Service.

Developmental Neurobiology

IBBOTSON, M R, collaborator, with 'Invetech', a biotechnology company, to develop medical tests for eye disorders.

Director

HEARN, J P, scientific consultant, Parliamentary Committee on Legal and Constitutional Affairs, Inquiry into Cloning (1999–); member, Biotechnology Consultative Group (BIOCOG), Department of Industry, Science Resources, Australia (1999–); deputy director, Pest Animal Control CRC (1999–); member, Board, Greenhouse Accounting CRC (1999–); Honorary Research Fellow, CSIRO Wildlife and Ecology, Gungahlin; member, Asia and Pacific Regional Panel for Research in Reproductive Health, WHO (1998–); member, Council, Center for Research Resources, National Institutes for Health, Washington (1995–); member, Council, Australian Society for Reproductive Biology (1999–).

Ecosystem Dynamics

BALL, M C, member, Boboyan Pine Plantation Working Group, helped devise plans for re-establishment of native vegetation following removal of the pine forest from Namadgi National Park.

GITAY, H, chair and coordinator, Impacts and Adaptation section, Australian Greenhouse Office, Environment Australia — Advancing Greenhouse Science Strategy & Business; consultant, Australian Greenhouse Office, Environment Australia. Government Review of landuse and forestry; consultant, ANUTECH. Environmental Impact Assessment for integrated forestry; member, DFAT, Stakeholder Consultation Group on the Biosafety Protocol negotiations; senior adviser, World Resources Institute — 2000 Report, WRI, Washington DC; member, Steering Committee, Millenium Ecosystem Assessment, UNEP/World Bank/FAO/WRI; coordinator and lead author, Chapter 5 — Ecosystems and their Services, Third Assessment Report of the WGII:

Impacts, Adaptation and Vulnerability, Intergovernmental Panel on Climate Change; lead author, Chapter 12 — Australasia, Third Assessment Report of the WGII: Impacts, Adaptation and Vulnerability, Intergovernmental Panel on Climate Change.

NOBLE, I R, chair, Scientific Steering Committee of Global Change and Terrestrial Ecosystems (GCTE); chair, Scientific Committee of the International Geosphere Biosphere Program (IGBP); chair, Scientific Steering Committee of Global Analysis, Interpretation and Modelling (GAIM); lead author, chapter 5, Third IPCC Assessment Report; co-chair, IPCC Special Report on Land Use, Land Use Change and Forestry; adviser, BP Amoco, regarding auditing of Greenhouse Gas Emissions within the company and invited speaker at business meetings and conferences; adviser, Environment Australia in relation to aspects of Global Change and preparation of the National Greenhouse Gas Inventory.

ROXBURGH, S H, collaborator, with S Sharpe, ACT Wildlife Research and Monitoring, Environment ACT, Canberra, assessing habitat value and landscape ecology in the ACT's remnant native vegetation [joint supervision of summer scholar projects].

SLATYER, R O, chair, Expert Panel on World Heritage values in forest ecosystems; chair, ANU Centre for Visiting UNESCO Fellows (chair); chair, Tropical Rainforest Ecology and Management CRC, James Cook University, Cairns; chair, Fenner Conferences on the Environment, Australian Academy of Science; committee member, National Committee on the Environment, Australian Academy of Science.

Electron Microscopy Unit

The ELECTRON MICROSCOPY UNIT facilities were used by the Australian Geophysical Survey Organisation, Australian Federal Police Forensic Services, Royal Australian Mint, and CSIRO Division of Plant Industry. Through ANUTECH, we have a consultancy with Robson Laboratories for OHS-related testing of airborne fibres.

Environmental Biology

FARQUHAR, G D, lead author, Intergovernmental Panel on Climate Change (IPCC), Third Assessment

Report; convening lead author, IPCC Special Report on Land Use, Land Use Change and Forestry; member, Greenhouse Science Advisory Committee (GSAC), the Reference Group for Greenhouse Challenge Sinks Workbook and the High Level Steering Committee for the National Carbon Accounting System (Australian Greenhouse Office).

Molecular Genetics and Evolution

GIBBS, A J, consultant, with Australian Quarantine Inspection Service, review of clonally propagated grasses; consultant, with Agriculture Fisheries and Forestry Australia, Nepovirus diagnosis; consultant, with Dr Jane Moran, Agriculture Victoria and colleagues in all other State Departments of Agriculture, viruses of the *Apiaceae*.

Molecular Plant Physiology

ANDREWS, T J, held discussions with CSIRO Telecommunications and Industrial Physics on topic of artificial photosynthesis.

Photobioenergetics

OSMOND, C B, gained SPIRT Grant Support with Southcorp, Clonakilla, Brindabella Hills, and Stringybark Hills wineries. (\$5000 pa for 3 years, beginning March 1999).

Visual Sciences

MADDESS, T, organiser, seminars for Australian Venture Capitalists at ANUTECH and RSBS.

MORGAN, I G, member, ACT Government's Hangzhou Environment Industry and Education Delegation to Hangzhou, China in March.

Chemistry, Research School of

BANWELL, Prof M G, consultant, Fine Chemicals Program of CSIRO Molecular Science, Melbourne; consultant, Genencor International Inc, Palo Alto; member, Editorial Board, *Australian Journal of Chemistry*; member, Honorary Advisory Board, *Synlett*; member, International Advisory Editorial Board, *New Journal of Chemistry*; member, Editorial Boards, *Green Chemistry*; *Indian Journal of Chemistry (Section B)*; associate editor, *Journal of the Chemistry Society, Perkin Transactions 1*; member, Executive, Division of Organic Chemistry, RACI; member, Organising Committee, Organic

Division Conference, 11th RACI Convention, Canberra, 2000; member, Advisory Board, Special Center for Green Chemistry, Monash University; assessor, ARC grant applications.

BENNETT, Prof M A, Australian representative, IUPAC Commission on Nomenclature of Inorganic Chemistry; ACT representative, Committee of the Australian Association of Alexander von Humboldt Fellows; member, Asia Exchange and Postdoctoral Sub-committee, Australian Academy of Science; member, International Advisory Board, *Dictionary of Organometallic Compounds* and *Dictionary of Inorganic Compounds*; International Editorial Associate, *Inorganic Syntheses*; member, Editorial Board, *Inorganic Chemistry*; assessor, ARC grant applications.

CHRISTY, Dr A G, associate editor, *Mineralogical Magazine*.

COLLINS, Dr M A, member, Organising Committee, Physical Chemistry Division Symposium, 11th RACI Convention, Canberra, 2000; assessor, ARC grant applications.

DIXON, Dr N E, Visiting Lecturer, School of Chemistry, University of Sydney.

EASTON, Dr C J, member, Policy Committee, Federation of Australian Scientific and Technological Societies (FASTS); member, Committee of the Royal Australian Chemical Institute, Division of Organic Chemistry; member, Steering and Planning Committee, Cooperative Research Centre for Sustainable Chemical Manufacturing and Bioprocessing; member, Advisory Board, Key Centre for Teaching and Research in Chiral Molecular Technologies, Deakin University; member, Organising Committee, 11th RACI Convention, Canberra, 2000; member, Organising Committee, Organic Chemistry Division Conference, 11th RACI Convention, Canberra, 2000; member, Referee Panel, *Journal of the Chemical Society, Chemical Communications*; member, Editorial Board, ARKIVOC; member, Editorial Board, *Chemistry in Australia*.

EVANS, Prof D J, Permanent Visiting Scientist, National Institute of Standards and Technology, Department of Commerce, USA; member, Sectional Committee 3, Australian Academy of Science; member, Technical Review Group, Australian Partnership for Advanced Computing (APAC); Session chair and invited speaker, 3rd Tohwa

University International Meeting on Statistical Physics, Fukuoka, Japan, 1999; member, Scientific Committee, 2nd Pacific Basin Conference on Adsorption Science and Technology, Brisbane, 2000; member, Faculty Promotion Committee (Associate Professor), University of Sydney; member, Editorial Advisory Board, *Chemical Physics*; member, Editorial Board, *Molecular Simulation*; assessor, ARC grant applications

HEATH, Dr G A, Honorary Fellow, Australian War Memorial; member, Raman Microscope Steering Committee, University of Canberra; assessor, ARC grant applications.

KENIRY, Dr M, assessor, ARC grant applications.

KRAUSZ, Dr E R, chair, Physical Chemistry Division, 11th RACI Convention, Canberra, 2000; assessor, ARC grant applications.

MACLEOD, Dr J K, secretary, International Mass Spectrometry Society; member, Organising Committee, Organic Division Conference, 11th RACI Convention, Canberra, 2000; assessor, National Association of Testing Authorities; Program chair, 17th ANZSMS Conference, Thredbo, 1999; assessor, ARC grant applications.

MANDER, Prof L N, chair, Sectional Committee 3, Australian Academy of Science; member, International Advisory Boards, *Dictionary of Organic Compounds*; *Journal of the Chemical Society*, *Perkin Transactions 1*; *Natural Product Reports*; *Synthesis*; *Synlett*; *Heterocyclics*; member, Board of Consulting Editors, *Tetrahedron*.

OLLIS, Dr D L, member, North American Fellowships Committee, Australian Academy of Science; assessor, NH&MRC and ARC grant applications.

RAE, Prof A D, member, Organising Committee, Crystal XXI, Twenty First Meeting Society of Crystallographers in Australia, 2000.

RADOM, Prof L, Vice-President, World Association of Theoretically Oriented Chemists; member, International Advisory Committee, 5th World Congress of Theoretically Oriented Chemists, London, England, 1999; member, International Advisory Committee, 15th IUPAC Conference on Physical Organic Chemistry, Göteborg, Sweden, 2000; co-organiser, Symposium on Computational Quantum Chemistry: Theoretical and Experimental Perspectives, 2000 International Chemical

Congress of Pacific Basin Societies, Honolulu, USA, 2000; member, Editorial Advisory Boards, *Australian Journal of Chemistry*; *European Mass Spectrometry*; *International Journal of Mass Spectrometry and Ion Processes*; *International Journal of Quantum Chemistry*; *Journal of the Chemical Society*, *Perkin Transactions 2*; *Journal of Computational Chemistry*; *Journal of Molecular Structure: Theochem*; *Journal of Physical Organic Chemistry*; assessor, ARC grant applications.

REYNOLDS, Dr P A, member, Instrument Scheduling Panel "Excitations" ISIS Spallation Source, Rutherford–Appleton Laboratory, UK; member, Organising Committee, Joint ANU–AINSE Symposium on Small Angle Scattering and Reflectometry.

RICKARDS, Prof R W, member, Europe Exchange Committee, Australian Academy of Science; member representing Australian Academy of Science, Council, and member of Executive Committee of Council, National Science Summer School; member, Review Panel, Department of Chemistry, University of Canterbury, Christchurch, NZ; consultant, Commonwealth Government Drugs of Dependence Regulations; member, Editorial Board, *Journal of Antibiotics*; assessor, ARC grant applications.

SEVICK, Dr E M, assessor, ARC grant applications.

WELBERRY, Dr T R, Vice-President, Society of Crystallographers in Australia (SCA); assessor, ARC grant applications.

WENGER, Dr E, co-editor, Special Issue of *Journal of Organometallic Chemistry*; member, Organising Committee, 11th RACI Convention, 2000; organiser, Bennett Symposium and Inorganic Division Program, 11th RACI Convention, Canberra, 2000.

WHITE, Prof J W, Science Policy secretary, Australian Academy of Science; and member, Council, Australian Academy of Science; chair, National Committee for Crystallography (Australian Academy of Science); chair, Neutron Scattering Commission (International Union of Crystallography); chair, Australian Synchrotron Research Program (ASRP) Strategy Committee; chair, Scholarships Committee, Oxford Australia Fund; and member, Steering Committee, Oxford Australia Fund; Vice-President, Australian Neutron Beam Users Committee; President Elect, Royal

Australian Chemical Institute; member, ASRP Policy and Review Board; member, Council of the Asian Crystallographic Association; member, Board of Governors, Consortium for Advanced Radiation Sources, CARS, University of Chicago; member, ISIS International Scientific Advisory Committee (SERC) and Neutron Advisory Panel, Rutherford–Appleton Laboratory, UK; member, ISIS Scheduling Panel, Rutherford–Appleton Laboratory, UK; member, Beam Facilities Consultative Group, Australian Nuclear Science and Technology Organisation; member, Neutron Scattering Specialist Committee, Australian Institute of Nuclear Science and Engineering; member, University of Sydney School of Chemistry Advisory Committee; member, Australian Academy of Science/Royal Society Exchange Program Committee; member, CSIRO, Chemicals and Plastics Sector Advisory Committee; member, International Review Committee, KEK-JAERI, Japan; member, Program Committee XVIII International Union of Crystallography Congress and General Assembly; member, Editorial Boards, *Physical Chemistry Chemical Physics*; *Advances in Physics*; *Journal of Materials Chemistry*; *Current Opinion in Solid State and Materials Science*; assessor, ARC grant applications.

WILD, Dr S B, consulting editor, *Tetrahedron: Asymmetry*, member, Editorial Advisory Board, *Main Group Chemistry*; member, Organising Committee, Inorganic Division Program, 11th RACI Convention, 2000; assessor, ARC grant applications.

WITHERS, Dr R L, member, Organising Committee, Crystal XXI, the Twenty First Meeting of the Society of Crystallographers in Australia, 2000; member, Program Committee, micrOZcopy 2000, Sixteenth Australian Conference on Electron Microscopy, 2000, consultant, Electron Diffraction Commission of the International Union of Crystallography; member, Aperiodic Commission of the International Union of Crystallography; assessor, ARC grant applications.

Earth Science, Research School of

BRAUN Dr J, member IASPEI Commission on Geodynamics and Tectonophysics; member, National Committee for Solid Earth Sciences; Associate, Cooperative Research Centre for Landscape Evolution and Mineral Exploration (CRCLEME) in the “Exploration in areas of basin

cover” theme; member, Canadian Institute for Advanced Research (CIAR).

CAMPBELL, Dr I H, member, Commission for Igneous and Metamorphic Petrogenesis, a subcommission of the International Union of Geological Sciences; Councillor, International Mineralogical Association.

CHAPPELL, Prof J, research into the environmental prehistory of north Arnhem Land with members of the Northern Land Council Darwin, with Traditional Owner groups.

COX, Prof S F, member, Australian Research Council's Research Training and Careers (Fellowships) Committee; Australian representative, International Association of Structural and Tectonic Geologists.

GAGAN, Dr M, member, new Ocean Drilling Program (ODP) “Scientific Drilling of Shallow-Water Systems” Planning Group; member, International Geosphere-Biosphere Program and World Climate Research Program (PAGES-CLIVAR) Joint Working Group.

HUGHES, Dr G O, co-inventor with S B Dalziel and B R Sutherland on a Provision Patent Application “Digital Schlieren” filed in the USA.

GREEN, Prof D H, member, Board of Management of the Australian National Seismic Imaging Resource (ANSIR); chair, Greenhouse Science Advisory Committee, Department of the Environment; External Examiner, Department of Earth Science, Sultan Qaboos University, Oman; member, Cambridge Commonwealth Trust.

KENNETT, Prof B L N, deputy director, Australian National Seismic Imaging Resource (ANSIR), a Major National Research Facility operated as a joint venture by the Australian Geological Survey Organisation and ANU; portable instrument facility of ANSIR is housed at RSES and equipment is available via a competitive proposal scheme; in 1999 instrumentation provided to Monash University for broadband studies in Victoria; a consortium of CSIRO Exploration and Mining and BHP Coal for studies of seismicity in the Appin Coal Field, NSW; RSES for the Quoll experiment in southeastern Australia; The Institute of Geological and Nuclear Sciences, New Zealand in association with RSES for work in the Transantarctic mountains; president, International Association for Seismology and the

Physics of the Earth's Interior (IASPEI); member, external Review Committee, Departments of Earth and Planetary Sciences, University of Tokyo; member, National Committee on Solid Earth Sciences; chair, Subcommittee on Seismology and Physics of the Earth's Interior; deputy chair, International Committee of the Academy; chair, Academy Committees for Postdoctoral Opportunities in Japan and exchange arrangements with NE Asia (China, Japan, Korea, Taiwan); represented the Academy of Sciences on the National Committee for support of International Conferences in Australia; continuing support to the Comprehensive Nuclear-Test-Ban Treaty Organisation in Vienna.

LAMBECK, Prof K, chair, Antarctic Science Advisory Committee, Department of the Environment; member, Technical Advisory Group South Pacific Sea Level and Climate Monitoring Project, Australian Agency for International Development, Department of Foreign Affairs; member, Geodesy Reference Group, Australian Surveying and Land Information Group, Department of Administrative Services; member, Australia Prize Committee; secretary, Physical Sciences (till October); Vice President and Foreign Secretary, Australian Academy of Science; member Australian Academy of Science Council; member, SPINOZA Commission of the Netherlands Organisation for Research; member, Canadian Institute for Advanced Research; a lead author of the Intergovernmental Panel on Climate Change; chair, Committee of the International Union of Geodesy and Geophysics to Study the Earth's Deep Interior (SEDI).

LILLEY, Dr F E M, member, Geomagnetism and Aeronomy Subcommittee.

O'NEILL, Dr H StC, member, IASPEI/IAVCEI Inter-Association Commission on Physical and Chemical Properties of Materials of the Earth's Interior.

PILLANS, Dr B, leader, dating project in CRCLEME, and primarily responsible for dating regolith materials by paleomagnetic techniques.

WEBB, Dr S L, secretary, IASPEI-IAVCEI Commission on Physical and Chemical Properties of Materials of the Earth's Interior.

Information Sciences and Engineering, Research School of

Computer Sciences Laboratory

BARTLETT, Dr P, member, Steering Committee, Annual Conference on Computational Learning Theory.

BAXTER, Dr J, guest editor, Special issue of *Machine Learning Journal* (December 1999).

GORÉ, Dr R, representative for ACT, Judging Panel of Australian Computer Science Society's Distinguished Dissertation Award.

HEGLAND, Dr M, committee member, Computational Mathematics Interest Group, Australian/New Zealand Industrial and Applied Mathematics Society; member, Editorial Board, *SIAM Journal of Scientific Computing*; member, Organisation Committee and Workshop Organiser, Computational Techniques and Applications Conference 1999; Session Organiser, Annual Conference of Australian/New Zealand Society for Industrial and Applied Mathematics.

LLOYD, Prof J, editorial adviser, *Journal of Logic Programming*; member, Editorial Board, *New Generation Computing*; member, Editorial Board, Addison-Wesley International Series in Logic Programming; member, Editorial Board, *Journal of Functional and Logic Programming*; member, Editorial Board, *The Computer Journal*; Vice-President (Pacific Rim), International Federation for Computational Logic; member, Engineering and Physical Sciences Research Council (EPSRC), Information Technology and Computing College, UK.

MILLAR, Dr B, president, Australian Speech Science and Technology Association (ASSTA) Inc; chair, National Spoken Language Database Committee, ASSTA Inc; member, Editorial Board, *Speech Communication*; member, Advisory Board, International Speech Communication Association; member, Permanent Council, International Congress of Phonetic Sciences; secretary, Permanent Council, International Conference on Spoken Language Processing; member, Advisory Committee, International Congress of Phonetic Sciences (ICPhS-99); member, International Advisory Board, IEEE Region 10 Conference (TENCON-99); member, Advisory Committee, International Conference on Speech Processing

(ICSP-99); member, Coordinating Committee for Speech Databases and Assessment (COCOSDA); convener, Corpora and Labelling Working Group, Coordinating Committee for Speech Databases and Assessment (COCOSDA); member, Board of the Summer Institute of Linguistics Australia; chair, School Committee of Board of the Summer Institute of Linguistics Australia; member, Scientific Committee, Workshop on Speech and Computer (SPECOM-99); member, Scientific Committee, International Conference on Language Resources and Evaluation (LREC-2000); member, International Advisory Committee, International Conference on Spoken Language Processing (ICSLP-2000).

ROBERTS, Dr S, treasurer, Computational Techniques and Applications Conference 1999; treasurer, Computational Interest Group, Australian/New Zealand Society for Industrial and Applied Mathematics (ANZIAM).

SLANEY, Dr J, president, International Conferences on Automated Deduction Inc; Program Committee member and co-organiser, Third Australian Commonsense Reasoning Workshop 1999.

Systems Engineering

ANDERSON, Prof B, president, Australian Academy of Science; adviser, International Federation of Automatic Control; Advisory Committee, Centre for Integrated Dynamics and Control; director, ANUTech Pty Ltd; director, CRASys Pty Ltd (until August 1999); director, Cochlear Ltd; member, Editorial Boards, *Applied and Computational Control, Signals, and Circuits*; *Journal of Multidimensional Systems and Signal Processing*; *Optimal Control Applications and Methods*; *International Journal of Adaptive Control and Signal Processing*; *International Journal of Robust and Nonlinear Control*; and IEEE Control Systems Society, "Major Impact Papers" Volume; member, Asian Control Professors Association; member, Australia Prize Advisory Committee; member, Prime Minister's Science, Engineering and Innovation Council; member, Steering Committee, Innovations Summit; member, Scientific Review Group, Pangea Resources Australia Pty Ltd.

BITMEAD, R R, Council member, (1996-2002) International Federation of Automatic Control; general chair, The 39th IEEE Conference on

Decision and Control, Sydney December 2000; corresponding member, Institution of Engineers, Australia.

MOORE, J B, Academy of Science Fellow Appointment Committee.

ZELINSKY, A, member, Editorial Board, *International Journal of Robotics Research*; member, International Affairs Committee, IEEE Robotics and Automation Society (1997-1999); member, Organising Committee, ROBOCUP: The World Cup Robot Soccer Challenge (1997-2000); member, Organising Committee, International Conference on Field and Service robotics (1997-2000); member, Program Committee, Distributed Autonomous Robotic systems Conference; member, Program Committee, IARP International Workshop on Humanoid and human-Friendly Robots; member, Program Committee IEEE-RSJ International Conference on Intelligent Robots and Systems; member, Program Committee, International Symposium on Robotics; member, Service Robots Committee, IEEE Robotics and Automatin Society (1997-1999); President, Australian Robotics and Automation Association.

Telecommunications Engineering

KENNEDY, Dr R, associate editor, IEEE Transactions on Communications, Data Communications in the Area of Modulation and Signal Design; member, Editorial Board, *Wiley Journal of Adaptive Control and Signal Processing*.

Medical Research, The John Curtin School of

Immunology and Cell Biology, Division of

ADA, Prof G L, chair, Vaccine Working Group, National Centre in HIV Epidemiology and Clinical Research, Sydney; member, Australian Influenza Vaccine Committee; referee for the Wellcome Trust, UK, John Hopkins School of Hygiene and Public Health, USA, and for the Health Research Council of New Zealand.

BLANDEN, Prof R V, member, Editorial Boards, *Immunology and Cell Biology* and *Asia-Pacific Journal of Biotechnology*; chair, Research Advisory Committee, National Centre in HIV Virology Research; member, Immunology Disciplines panel of the NH & MRC; ANU representative, Board, CRC for Pest Animal Control.

CLARK, Dr I A, Federal secretary, National Association of NHMRC Research Fellows; member, NHMRC Grantnet Users Representative Group; member, NHMRC Grantnet Management Committee; member, Editorial Boards of *Experimental Parasitology* and *International Journal for Parasitology*, referee, *Lancet*, *Journal of Immunology*, *Infection and Immunity*, *Transactions of the Royal Society of Tropical Medicine and Hygiene*, *Parasitology*, *International Journal for Parasitology*, *Journal of Infectious Disease*, and *Parasitology Today*; reviewed grant applications for NH & MRC, ARC, National Heart Foundation, World Health Organization, the University of Queensland, the Bi-national Science Foundation, and the Canadian MRC.

COOPER, Dr P, Public Officer, Australian Cancer Society and the Clinical Oncological Society of Australia; consultant, ANUTECH.

HAPPEL, Dr A J, member, local organising committee, Year 2000 Sixth International Conference on Dendritic Cells, Port Douglas, QLD.

PARISH, Prof C, editor-in-chief, *Immunology and Cell Biology*; served on the Medical Research Advisory Committee, Australian Cancer Research Foundation.

RAMSHAW, Prof I A, member, Australian Drug Evaluation Sub-Committee, ACT Science and Technology Council and Scientific Advisory Panel, Westmead Institute for Cancer; Research Editorial Board member, *Viral Immunology* and *Microbes and Infection*.

WILLENBORG, Dr D O, member, International Advisory Board, International Society of Neuroimmunology; Editorial Board member, *Journal of Neuroimmunology*; Board member, ACT Multiple Sclerosis Society.

Molecular Medicine, Division of

ARDLIE, Dr N G, Clinical Assoc Prof at the University of Sydney; member, Elective Term Committee and Haematology Block Committee, Canberra Clinical School; Funds Advisory Committee, Canberra Region Medical Foundation Limited; Australian Steering Committee for tracking medical pedigrees with heterozygous familial hypercholesterolemia; Oncology Executive Group, The Canberra Hospital; referee, *Atherosclerosis*, *Pathology*, *Thrombosis Research*

Council, National Heart Foundation of Australia, Anti-Cancer Council of Victoria, International Science Foundation, Merch Sharp and Dohme.

BAKER, Dr R, assessed grants ARC, NHMRC, Royal Society of New Zealand, Leo and Jenny Foundation, Ramaciotti Foundation, Anti-Cancer Council of South Australia; reviewed manuscripts, *Current Genetics*, *Biochemistry and Molecular Biology International*, *Biochimica et Biophys Acta*; supervises students, Work Experience Program from Canberra College and CSIRO Student Scheme.

BOARD, Dr P G, grants assessor, ARC, NH&MRC, The New Zealand Foundation for Research, Science and Technology; reviewed manuscripts, *Thrombosis and Haemostasis*, *Gastroenterology*, *Journal of Gastroenterology and Hepatology*; Editorial Advisor; *Biochemical Journal*; examined PhD theses, University of Melbourne, The University of Queensland and Flinders University.

EASTEAL, Dr S, editor, *Molecular Biology and Evolution*; assoc editor, *Molecular Biology and Evolution*, *The Journal of Molecular Evolution*; member, Advisory Committee of the NH&MRC Social Psychiatry Research Unit.

GOODNOW, Prof C C, member, Editorial Boards of *The Journal of Experimental Medicine*, *Immunological Reviews*, *Current Biology*, and *Genome Biology*; NH&MRC steering committee, Medical Genome Research Initiative; ARC Strategic Planning Workshop on Genomics and Gene Technologies; Scientific Advisory Boards, Australian Genome Research Facility and of Illumina, Inc; Appointments and Promotions Committee of the Walter and Eliza Hall Institute; reviews manuscripts, *Nature*, *Cell*, *Science*, *Immunity*, *Current Biology*, *Journal of Experimental Medicine*, *Journal of Immunology*, *Immunology and Cell Biology*.

McCULLAGH, president, National Brain Injury Foundation; member, Australian Health Ethics Committee; reappointed, Australian Health Ethics Committee; member, working group advising Minister for Health on Scientific, Ethical and Regulatory Considerations Relevant to Cloning of Human Beings; member, working group revising the NHMRC Statement on Ethical Conduct in Research Involving Humans; honorary medical adviser, Vietnam Veterans Association of

Australia, Legacy, Returned and Services League of Australia.

SIMEONOVIC, Dr C J, grant assessor, NH&MRC; member, Editorial Board, *Cell Transplantation*; Local Organising Committee, International Congress, Pancreas and Islet Transplant Association, Sydney; co-organiser, Postgraduate Course in Immunology (sponsored by the Transplantation Society of Australia and New Zealand), Canberra.

Neuroscience, Division of

BEKKERS, Dr J M, member, council for the Australian Neuroscience Society; consultant for Axon Instruments Inc, Foster City, California, USA.

CURTIS, Prof D R, member, Faulding Florey Medal Award Committee; member, Panel of Advisers, National Institute of Forensic Science Australia.

HENDRY, Prof I A, science adviser, Wenkart Foundation board; member, John James Memorial Ethics Committee; member, editorial boards, *Journal of Neuroscience Research* and *International Journal of Developmental Neuroscience*; assessor for National Health and Medical Research Council; Australian Research Council; Medical Research Council (NZ); National Science Foundation (USA).

HILL, Dr C E, member, NHMRC Regional Grant Interviewing Committee, Brisbane; member, NHMRC Training Awards Committee; ACT representative for Australian and New Zealand Microcirculation Society.

REDMAN, Prof S J, member, Editorial Boards, *Journal of Neurophysiology*, *Synapse*, *Neuroscience*, *Journal of Neuroscience Methods*, *Neuroreport*, *Trends in Neuroscience*, *Journal of Computational Neuroscience*, *European Journal of Neuroscience*, *Journal of Clinical Neuroscience* and *Clinical & Experimental Pharmacology & Physiology*; member, interviewing committee, New Zealand Health Research Council; assessor, Australian Research Council, National Health and Medical Research Council, National Science Foundation, Ramaciotti Foundation and Wellcome Trust; member, Council, Australian Academy of Science; member, Scientific Advisory Committee, Prince of Wales Medical Research Institute.

WALMSLEY, Dr B, Committee member, NH&MRC Regional Grants Interviewing Committee, Brisbane, Queensland; Project Grant assessor for

NH&MRC and ARC; reviewer, *Science*, *J. Neurophysiology*, *J. Physiology* and *J. Neuroscience*.

Physical Sciences and Engineering, Research School of

During 1999 more than 20 members of the academic staff of RSPHysSE served as reviewers and referees for the Australian Research Council, AINSE and the Australian Academy of Sciences. International review commitments are listed individually below.

Applied Mathematics

CHRISTENSON, Dr H K, regional editor, Australia/New Zealand, *Journal of Dispersion Science and Technology*; Board member, Multiple Sclerosis Society of the ACT.

MARCELJA, Prof S, teacher, Statistical Thermodynamics Course, Göteborgs Universitet.

NINHAM, Prof B W, member, UNESCO World Commission on Ethics of Scientific Knowledge and Technology; organiser, New International Scandinavian Research Institute in Basic Science planned to form in Malmo, Sweden; joint supervision of a number of students and post docs, especially in Sweden, France, Italy.

STEWART, Dr A M, vice president (Academic) and treasurer, ANU Branch National Tertiary Education Union.

Atomic and Molecular Physics Laboratories

BUCKMAN, Prof S J, member, General Committee, International Conference on the Physics of Electronic and Atomic Collisions (ICPEAC) 1997–2001; member, Organising Committee, 11th Gaseous Electronics Meeting, Armidale; member, Scientific Committee, 19th International Symposium on Electron–Molecule Collisions and Swarms, Japan, Grant Proposal Referee, National Science Foundation, USA.

CARVER, Prof J H, co-convener, Comparative Planetary Atmospheres Symposium, Joint Assemblies, International Association of Meteorology and Atmospheric Sciences.

CHADDERTON, Prof L T, founding editor, *International Journal of Radiation Effects and Defects in Solids* (formerly *Radiation Effects*); member, Editorial Advisory Board, *Nuclear Tracks*

and Radiation Measurement; member, Editorial Advisory Board, *International Materials Science Forum*; member, Steering Committee, Bilateral Science & Technology Agreement, Mexico and the Federal Government of Australia; member, United Nations Committee on Photovoltaic Applications in Less-Developed Countries, UN Centre for Science & Technology for Development; member, International Committee, Biennial Conference Series on Radiation Effects in Insulators; member, International Committee, Biennial Conference Series on Particle Tracks in Solids.

CROMPTON, Prof R W, chair, ACT Chapter, Australian Fulbright Association, member, Editorial Advisory Board, *Physics of Atoms and Molecules*; member, International Advisory Board, International Conference on Atomic and Molecular Data; chair of Board, Rio Tinto National Youth Science Forum.

ELFORD, Dr M T, member, Editorial Board, *Australian Journal of Physics*.

LEWIS, Dr B R, member, International Advisory Board, International Conferences on Vacuum Ultraviolet Radiation Physics; associate editor, *Journal of Quantitative Spectroscopy and Radiative Transfer*.

LOWER, Dr J C A, joint organiser, Humboldt99, the biennial meeting of the Australian Association of von Humboldt Fellows, September, Canberra, ACT; treasurer, ACT Branch, Australian Institute of Physics.

WEIGOLD, Prof E, chair, Editorial Board, *Australian Journal of Physics* (until May); member, Board, Australian Photonics CRC; chair, National Committee for Physics, Australian Academy of Science; member, International Scientific Committee, Symposium on Atomic Physics, Hanoi; member, International Scientific Committee, Many-Particle Spectroscopy of Atoms and Molecules, Halle, Germany 2000; member, International Scientific Committee, Sagamore 13, Stare Jablonski, Poland 2000; chair, Selection Committee, AIP Boas Medal; member, University of New England Grants Committee; member, Nominating Committee, American Physical Society Few-Body Topical Group; Australian Representative, General Assembly, International Union of Pure and Applied Physics.

WOOLF, Dr L A, chair, Credit Union of Canberra; member, Ministerial Consultative Committee on Non-government Schooling.

Electronic Materials Engineering

ELLIMAN, Dr R G, chair, ACT Branch, Australian Institute of Physics; member, International Committee, Ion Beam Modification of Materials Conference Series; member, International Committee, Ion Beam Analysis Conference Series; member, AINSE Accelerator Science Specialist Committee; member, AINSE Environmental Science Specialist Committee; member, Governing Council, Electronic Materials Division, International Union of Vacuum Science Techniques and Applications; member, Program Committee and Organising Committee, 11th Australian Conference on Nuclear Techniques of Analysis, Sydney, Australia; member, Program Committee and Organising Committee, 5th Vacuum Society of Australia Congress, Sydney, Australia; member, Program Committee, MicroZcopy 2000 conference, Canberra, Australia, 2000; member, Program Committee, 12th International Conference on Ion Beam Modification of Materials, Porto Alegre, Brazil, 2000; member, International Editorial Board, *Nuclear Instruments and Methods B*, North Holland Press, Amsterdam; consultant, Pacific Solar Pty Ltd.

FLETCHER, Prof N H, editor-in-chief, *Acoustics Australia*; member, Australian Library Collections Task Force (National Library of Australia and the National Scholarly Communications Forum); Official Visitor, Co-operative Research Centre for Molecular Engineering and Technology; member, Stage I Review, Co-operative Research Centre for Antarctica and the Southern Ocean; member, Editorial Board, *Journal of Sound and Vibration*; member, Editorial Board, *Applied Acoustics*; member, International Scientific Committee, 7th International Conference on Sound and Vibration

JAGADISH, Prof C, past-chair, IEEE Australian Capital Territory Section; chair, IEEE Australian Chapter of Electron Devices Society (EDS) and Lasers and Electro-Optics Society (LEOS); chair, IEEE Optoelectronic Devices Technical Committee, Electron Devices Society; member, IEEE EDS Publications Committee; member, International Advisory Committee, 11th International Semiconducting and Insulating Materials Conference, Canberra, 2000; General chair, 11th

International Semiconducting and Insulating Materials Conference, Canberra, 2000; member, International Advisory Committee, COBRA, Inter-university Research Institute, Eindhoven University of Technology, The Netherlands; member, IEEE Compound Semiconductor Integrated Circuits Technical Committee, Electron Devices Society; member, Administrative Committee, IEEE Electron Devices Society, USA, 1999–2001; member, IEEE Compound Semiconductor Integrated Circuits Technical Committee of The Electron Devices Society; chair, IEEE Workshop on Semiconductor Optoelectronics, Canberra; member, International Scientific Committee, 3rd IMACS International Multi-conference on: Circuits, Systems, Communications and Computers (CSCC'99), Athens, Greece; member, Program Committee, Semiconductor Lasers, Conference on Lasers and Electro-Optics — Pacific Rim, Seoul, Korea; Reviewer, Australian Research Council, Large Grants, Fellowships, Small Grants.

PETRAVIC, Dr M, member, Program Committee, MicroZcopy 2000 Conference, Canberra, Australia, 2000; presenter, Workshop on the Ion Microprobe at the Science Conference.

RIDGEWAY, Dr M C, Grant Proposal Referee, Foundation for Research and Development, South Africa.

TAN, Dr H H, treasurer, IEEE ACT Section, Newsletter editor, IEEE Australian Chapter of Electron Devices Society and Lasers and Electro-Optics Society.

WELHAM, Dr N, member, Editorial Board, *Proceedings of the Australasian Institute of Mining and Metallurgy*; Committee Member, Canberra Branch Australasian Institute of Mining and Metallurgy; Newsletter editor, Canberra Branch Australasian Institute of Mining and Metallurgy; Organising Committee Member, Southern Africa–Australia Mineral Sector Synergies Symposium; Press Officer, Southern Africa–Australia mineral Sector Synergies Symposium; Returning Officer, IEEE ACT Section; Returning Officer, IEEE Australian Chapter of Electron Devices Society and Lasers and Electro-optics Society; consultant, Gold Mines of Sardinia Pty Ltd, Anaconda Nickel, Westinghouse and Sons of Gwalia.

WILLIAMS, Prof J S, president, Australian Materials Research Society; member, International Advisory Committee, International Conference Series on Ion Beam Analysis; member, International Advisory Committee, International Conference on Ion Implantation Technology; member, Executive Committee, International Union of Materials Research Society; member, Editorial Board, *Radiation Effects and Defects in Solids*; member, Public Affairs Committee, Materials Research Society, Pittsburg, USA; member, Advisory Board, Applied Physics Reviews; External Member of Advisory Board, Strategic Program in Functional Materials, ANSTO; Head, Australian Delegation to China for Cooperation in Materials Development.

Laser Physics Centre

BALDWIN, Dr K G H, editor, *Advances in Atom and Quantum Optics*, special issue *Journal of Optics B (Semiclassical and Quantum Optics)*, August; member, Technical Program Committee, CLEO Pacific Rim; member, Technical Program Committee, IOEC 2000; member, Technical Program Committee, Atom Optics and Interferometry 2000; member, National Committee for Spectroscopy, Australian Academy of Science; member, ACT Branch Committee, Australian Institute of Physics; member, Science Policy Committee, Australian Institute of Physics; member, Australasian Council on Quantum Electronics; chair, Australian Conference on Optics, Lasers and Spectroscopy Liaison Committee; chair, Science Policy Committee, Federation of Australian Scientific and Technological Societies; organiser, ACT Australian Institute of Physics “Adopt-a-Physicist” Program, ACT Secondary Colleges.

CHARTERS, Dr R, member, Technical Committee, 24th Australian Conference on Optical Fibre Technology.

LUTHER-DAVIES, Prof B, director, Canberra Division, Australian Photonics Cooperative Research Centre; director, Research, Australian Photonics Cooperative Research Centre; director, Australian Photonics Pty Ltd.

MANSON, Dr N B, member, Editorial Board, *Photonics Science News*.

SAMOC, Dr M, member, Editorial Board, *Photonics Science News*; member, International Program

Committee, 5th International Conference on Frontiers of Polymers and Advanced Materials, NATO Advanced Research Workshop on Polymers and Composites for Special Applications; member, International Advisory Board, 8th Conference Electrical and Related Properties of Organic Solids.

Nuclear Physics

BYRNE, Dr A P, member, Committee and Minutes Secretary, ACT Branch of the Australian Institute of Physics; participant, Australian Institute of Physics "Adopt-a-Physicist" Program; supervisor, Narrabundah College student, International Baccalaureate Project.

DASGUPTS, Dr M, Committee Member, ACT Branch of the Australian Institute of Physics; staff member, Dickson College, ACT, for the "Adopt-a-Physicist" Program of the ACT Branch of the Australian Institute of Physics

FIFIELD, Dr L K, member, International Program Advisory Panel, 8th International Conference of Accelerator Mass Spectrometry, University of Vienna; ANU Representative, ACT Radiation Council.

DRACOU LIS, Prof G D, member, International Advisory Panel, The Nucleus: New Physics for the New Millennium, Faure, South Africa; member, International Advisory Committee, Challenges and Perspectives in Nuclear Structure 99, Crete; member, International Advisory Committee, Fission and Neutron-Rich Nuclei, St. Andrews, Scotland; member, International Advisory Committee Nuclear Structure 2000 NSCL, Michigan, USA, 2000; member, International Advisory Committee Luderitz 2000 — Fundamental and Applied Aspects in Modern Physics, Luderitzbuch, Namibia, 2000; member, 18th AINSE Nuclear and Particle Physics Program Committee, (in association with the AIP Congress), Adelaide, 2000; member, North America Committee, Australian Academy of Science, International Program of Scientific Visits; ANU Representative, Engineering and Physical Sciences Research Council (UK), ANU-EPSRC Agreement: beam time allocation; referee, Engineering and Physical Sciences Research Council (UK), Senior Research Fellowship Scheme; Expert Referee, Engineering and Physical Sciences Research Council (UK), Research Grants; Nuclear Physics Programme; Evaluator, Foundation for

Research Development (South Africa) — Evaluation of Research Outputs of Principal Grant Holders.

HINDE, Dr D J, member, International Advisory Committee, Seventh International Conference on Nucleus–Nucleus Collisions, Strasbourg, 2000

KIBÉDI, Dr T, supervisor, student projects within the CSIRO Student Research Scheme.

OPHEL, Prof T R, ANU Representative, Australian Institute of Nuclear Science and Engineering (AINSE) Council; Convener, AINSE Accelerator Science Specialist Committee.

STUCHBERY, Dr A E, member, Committee, and Social Secretary, ACT Branch of the Australian Institute of Physics; member, Committee, Nuclear and Particle Physics Group (NUPP), Australian Institute of Physics; member, Program Committee and Conference chair, 18th AINSE Nuclear and Particle Physics Conference, Adelaide, 2000; supervisor, student projects within the CSIRO Student Research Scheme.

TAYLOR, Prof S R, associate editor, *Meteoritics and Planetary Science*; International Secretary, Geochemical Society; member, Board of Advisers, The Planetary Society; member, Nominations Committee, The Meteoritical Society; organiser, Symposium at the Goldschmidt meeting of the Geochemical Society, Boston.

Optical Sciences Centre

KIVSHAR, Prof Yu S, reviewer, *Optics and Photonics News*.

LOVE, Prof J D, Director, Siemens Science and Engineering Experience.

Plasma Research Laboratory

BORG, Dr G G, editor, *Czech Journal of Physics*.

BOSWELL, Prof R W, member, International Organising Committee of ISPC 15, 2000; Vice-President, member, Committee for the Gaseous Electronics Meeting; Vice-President, Vacuum Society of Australia; lecturer, short course (eight hours) of plasma physics to Honours physics class, University of Marseilles.

HARRIS, Prof J H, member, Stellarator Physics Advisory Committee, Princeton Plasma Physics Laboratory, Princeton, USA; member, Plasma Specialist Committee, AINSE.

HOWARD, Dr J, member, Plasma Specialist Committee, AINSE; lecturer, 4th Year Electrical Engineering, Electronic Engineering Case Studies, University of Canberra.

SHATS, Dr M G, member, Program Committee, International Workshop, Role of Electric Fields in Plasma Confinement and Exhaust, Prague.

Theoretical Physics

BAXTER, Prof R J, member, Editorial Board, *Journal of Geometric and Functional Analysis*; member, Editorial Board, *Journal of Statistical Physics*; member, Advisory Board, *Physica A*; member, Editorial Committee, *Philosophical Transactions of the Royal Society, Series A*; member, Editorial Board, *Annals of Combinatorics*; member, Editorial Board, *Theoretical Physics and Related Mathematics*.

DAS, Dr M P, member, Editorial Board, *Condensed Matter and Materials*; member, International Advisory Committee, International Workshop on Superconductivity, Magneto-Resistive Materials and Strongly Correlated Quantum Systems, Hanoi, Vietnam; member, Program Committee, 22nd International Workshop on Condensed Matter Theories, Ithaca, Greece; co-convenor, Gordon Godfrey Research Workshop on Condensed Matter Physics, University of New South Wales; co-convenor, Physics Summer School on Bose-Einstein Condensation, 2000, ANU Centre for Theoretical Physics.

DEWAR, Prof R L, member, International Union of Pure and Applied Physics (IUPAP), Commission on Plasma Physics (C16); member, Editorial Board, *Australian Journal of Physics*; chair, Sectional Committee 2, Australian Academy of Science; member, Frederick White Prize Selection Committee, Australian Academy of Science; Committee Member, Australian Institute of Physics, ACT Branch; associate editor, *The Physicist*; member, International Advisory Committee, International Congress on Plasma Physics member, Program Committee for ICPP2000; chair, Local Organising Committee for ICPP2002; organiser, International Conference on High Performance Computing and Advanced Visualisation in Plasma Physics Research, Magnetic Island, QLD.

GARDNER, Dr H J, Australian representative on IUPAP Commission on Computational Physics

(C20); member, Organising Committee, Conference on Computational Physics, CCP2000, 2000; member, Organising Committee, Conference on Computational Techniques and Applications CTAC99, ANU; convener, Workshop on Scientific Visualisation and Virtual Environments (in conjunction with the CTAC99 conference), ANU.

GULACSI, Dr M, Deputy Director General, International Biographical Center; co-convenor, ANU CTP Summer School on Quantum and Classical Chaos, ANU.

KUKN, Dr S Yu, co-convenor, ANU CTP Summer School on Quantum and Classical Chaos, ANU.

ROBSON, Dr B A, member, Organising Committee, 18th AINSE Nuclear and Particle Physics Conference, Adelaide, SA, 2000.

SCOTT, Dr S, member, Editorial Board, *Classical and Quantum Gravity*; member, Canberra Branch of AIP Committee; treasurer, Australasian Society for General Relativity and Gravitation; member, Advisory Committee, 4th Gravitational Wave Data Analysis Workshop, Rome; member, International Coordinating Committee for the 9th Marcel Grossman Meeting, Rome, 2000; member, Scientific Organising Committee for the 16th International Conference on General Relativity and Gravitation to be held in Durban 2001; member, World Network Collaborative Data Analysis Group.

Social Sciences, Research School of

Democratic Institutions, Centre for

BESSELL, S, facilitator, workshop on resolving ongoing conflict in Sri Lanka, Seventh Sri Lanka Studies Conference.

Demography Program

HULL, Dr T H, consultant, economic crisis and reproductive health in Indonesia, Population Council, Jakarta; honorary consultant, English translation of book on Indonesian Women's Movement, Ford Foundation.

JONES, Prof G W, honorary treasurer and member, executive committee, Academy of the Social Sciences in Australia; project director, AusAID-funded Eastern Indonesia Project; consultant: impact of the economic crisis on educational enrolments; contribution of the social safety net

program, Social Monitoring and Early Response Unit (under the auspices of World Bank, Jakarta).

KHOO, Dr S, member, advisory committee, Longitudinal Survey of Immigrants to Australia, Department of Immigration and Multicultural Affairs.

LUCAS, Dr D, board and committee member, Australian Reproductive Health Alliance; secretary, African Studies Association of Australasia and the Pacific; immediate past president and vice president, Welsh Society of Canberra.

McDONALD, Prof P, member, board of trustees and chair, program committee, International Centre for Diarrhoeal Disease Research, Bangladesh; chair, working group on low fertility, International Union for the Scientific Study of Population; vice president, Relationships Australia, Canberra and Region; consultant: Family Law Act, Attorney-General's Department; household projections, Australian Bureau of Statistics; social and demographic environment for child care, Commonwealth Child Care Advisory Council; ageing and immigration, community profiles, Department of Immigration and Multicultural Affairs; population futures in Australia, Department of the Parliamentary Library; demography of ageing in Australia, Productivity Commission.

Director's Section

BRAITHWAITE, Dr V, member, cash economy task force and consultant, compliance issues, Australian Taxation Office; chair, ethics committee, Australian Institute of Criminology.

BRENNAN, Prof H G, president, Relationships Australia, Canberra region and vice-president, nationally; consultant, Anglican Primate's Committee on Tax Reform.

McALLISTER, Prof I, member: executive committee, comparative politics section, American Political Science Association; International Committee for Research into Elections and Representative Democracy; British Politics Group, American Political Science Association.

PETTIT, Prof P, chair, Australian committee for Summer School in Philosophy: China, Britain, Australia; member, advisory board: Erasmus Institute for Philosophy and Economics, Erasmus

University, Rotterdam; Law and Philosophy Center, Columbia University, New York; McDonnell project in philosophy and the neurosciences (metaphysics/philosophy of mind) Simon Fraser University, Vancouver; member, steering group, project on ethics and cloning, Australian Academy of Science; joint working group, national code of ethical conduct in research involving humans, Australian Vice-Chancellors' Committee; Panel C committee, Academy of Social Sciences in Australia; member, review of Philosophy Department, University of Canterbury, Christchurch; selection panel for Imre Lakatos Award; senior participant/program organiser, ARC special research initiatives project on mental simulation theory (Flinders University); board of academic advisers, Freedom Project, John Templeton Foundation; International advisory committee, conference on political philosophy and political reform, Beijing, 2001, Ford Foundation; organiser, conference on law and republicanism, Columbia University, New York.

Economic Policy Research, Centre for

CHAPMAN, Prof B J, consultant, public sector review of Malaysia, Ethiopian higher education financing, World Bank; member, labour market advisory committee, Australian Bureau of Statistics; invited member, International Forum of Labour Economists; Committee member, Economic Society of Australia, Canberra Branch; research associate, National Institute of Labour Studies, Flinders University and Centre for Labour Market Research (a consortium of Curtin, Edith Cowan and Murdoch Universities and the University of Western Australia).

CROSSLEY, Dr T, member, Canadian International Labour Network; consultant, tracing and non-response issues in the Canadian Out of Employment Panel Survey, Department of Human Resource Development, Canada; evaluating tax reform, evaluating the parenting payment intervention pilot study, design of a new household panel data set, Federal Department of Family and Community Services.

BARRETT, Dr G, consultant, Department of Family and Community Services granting competition.

PITCHFORD, Dr R, consultant, airport pricing, credit card fees, specific questions in gas and

electricity, Australian Competition and Consumer Commission.

Economics Program

COBB-CLARK, Dr D, member, ministerial advisory council on government schooling; consultant: best practice in labour market adjustment programs in APEC economies, Department of Employment, Workplace Relations and Small Business; parenting payment intervention pilot Department of Family and Community Services; presentations to Business Council of Australia.

GREGORY, Prof R G, president, Economic Society of Australia (to September); member, Evatt Foundation; Australian Bureau of Statistics economic statistics user group; nominating committee, chair of Australian Studies, Harvard University; steering committee, Centre for Strategic Studies, Victoria University of Technology; CEPM Advisory Board, University of Queensland; chair, selection committee, University of Newcastle; panel member, NHMRC health and economics workshop; discussant, policy implications of the ageing of Australia's population, Productivity Commission conference; presidential address, Conference of Economists; XII World Congress of the International Economic Association, Buenos Aires; presentations: ANU Parliamentary Forum, Australian Business Economists Forecasting Conference; Commonwealth Bank; Melbourne Institute Public Economics Forum; Public Policy Program on industry policy, state conference of the Australian Labor Party, Queensland Branch; University of Canberra workshop on Working Nation; Victoria University of Technology conference on earnings inequality in Australia; Public Forum on Macroeconomics, University of Queensland.

KEATING, Dr M, member, National Council, Institute of Public Administration; presentations: allocating roles and responsibilities, Federal-State Relations Committee, Parliament of Victoria; submission and witness, improved incentives Senate Tax Committee; lessons from the market place for health and human services, Australian Catholic Health Care Association; International Conference on Federalism in an Era of Globalisation, Canada.

MITCHELL, Dr D, consultant: report on pension reform, World Bank; social security reform in China, AusAID.

PAGAN, Prof A R, Board member, Reserve Bank of Australia; keynote address, XII World Congress of the International Economic Association, Buenos Aires; discussant, London School of Economics conference on 'The Limits to Forecasting Financial Series'.

History Program

BOWEN, Dr G, treasurer, Australian and New Zealand American Studies Association.

GRIFFITHS, Dr T, member: national advisory board, Australian Science and Technology Heritage Centre, University of Melbourne; scientific advisory board, Earthwatch Australia.

LAUGENSEN, A, postgraduate member, executive committee, Australian and New Zealand American Studies Association.

JALLAND, Prof P, chair, organising committee, Australasian Modern British History Association Conference; member, executive committee and standing committee, Executive, Academy of the Social Sciences in Australia.

YOUNG, Dr L, chief judge, Heritage Interpretation Awards, Interpretation Australia Association; member, expert review committee on exhibit content; expert witness, citizens' jury on historic sites; consultant: assessing the significance of movable cultural heritage, Heritage Collections Council, Department of Communications, Information Technology and the Arts; interpretation outline for the Up-To-Date Store historic site, Coolamon Shire Council; interpretation plan component of conservation management plan, Old Parliament House, Department of Communications, Information Technology and the Arts.

Immigration and Multicultural Studies, Centre for

JUPP, Dr J, consultant, Victorian government Ethnic Affairs Unit; international member, Refugee Studies Centre, York University, Canada; member: regional committee on migration, planning and settlement, Department of Immigration and Multicultural Affairs, Canberra; UNESCO-MOST program, Asia Pacific Migration Research Network; Advisory board, European

Studies Centre, University of New South Wales; executive committee, politics and ethnicity, International Political Science Association; chair, international relations committee, Academy of the Social Sciences in Australia.

Law Program

BEHRENDT, Dr L, executive member, Black Women's Action in Education Foundation. member, management committee, Women's Legal Service (ACT).

BRAITHWAITE, Prof J, deputy chair, ACT Law Reform Commission; member: advisory council, International Institute for Restorative Practices; National Institute for Social Science Information (US), International Panel on Crime; Scientific advisory board, Drug Use Monitoring in Australia; Advisory committee, Institute of Criminology; University of Sydney; Council member, Australian Consumers' Association; consultant: Singapore Juvenile Court; Workcover (NSW); Australian Taxation Office; Department of Finance and Administration.

CANE, Prof P, secretary and treasurer, Australian Society of Legal Philosophy.

KENT, Dr A, consultant: Australian Broadcasting Commission on human rights and China; Australia-Tibet Council; International Commission of Jurists; Human Rights Section, Department of Foreign Affairs and Trade.

ROCHE, D, member, criminal law committee, Law Society of the ACT; convener, NSW Youth Justice Conferences; co-author submissions and witness, Parliamentary Joint Committee on National Crime Authority 'Street Legal: Involvement of the National Crime Authority in Controlled Operations'.

SEDDON, Dr N, chair, board of CARE Credit and Debt Counselling Service Inc; consultant, Blake Dawson Waldron, lawyers; adviser, new contract for deployment of civilian contractors in areas of active operations, Commonwealth Department of Defence.

STAPLETON, Prof J; consultant, Dow Corning Corporation; external member, selection committee for three chairs in law, Monash University.

MASON, Sir A, non-permanent Judge, Hong Kong Court of Final Appeal; judge, Supreme Court of

Fiji; president, Court of Appeal of the Solomon Islands.

WILLIAMS, G, consultant: Parliamentary Research Service, Department of the Parliamentary Library, Commonwealth Parliament; Workplace Relations Policy Group, Department of Employment, Workplace Relations and Small Business; Australian Broadcasting Corporation; Phillips Fox, Solicitors.

ZINES, Prof L R, expert adviser to ACT Federation Centenary Committee; member, centenary national advisory panel of the Founding Documents Website project managed by National Archives.

Philosophy Program

GOODIN, Prof R E, member, advisory board, Committee on the Political Economy of the Good Society, University of Maryland.

SMITH, Prof M, council member and information officer, Australasian Association of Philosophy; member, executive, Australian Society for Legal Philosophy.

Political Science Program

CASTLES, Prof F, adviser, political science journals holdings, National Library of Australia.

HILL, Dr L, judge, APSA Women's Caucus Women and Politics Prize.

HINDESS, Prof B, member, executive committee, Australasian Political Studies Association; adviser, personal chairs committee, University of Auckland.

SAWER, Dr M, member: Social Sciences and Humanities Disciplinary Panel, Australian Research Council; public affairs committee, Academy of the Social Sciences in Australia; Rhodes Scholarship selection committee for Commonwealth Territories; Political Science Accreditation Panel, Board of Senior Secondary Studies, ACT; convener, judging panel for the APSA/IPPA Women and Politics Prize; co-Convener, Pamela Denoon Lecture Committee.

Social Science Data Archives

MERRILL, E V, secretary, Australian Consortium for Social and Political Research Incorporated. Regional secretary, International Association for

Social Science Information Service and Technology (IASSIST).

Sociology Program

DUGDALE, Dr A, member, Australian government delegation to UNESCO/ICSU World Conference on Science, Budapest.

JONES, Prof F L, chair, Council of the Australian Consortium for Political and Social Research, Inc; member, consultative committee on ancestry, Australian Bureau of Statistics; panel of experts, National Education Performance Monitoring Task Force; consultant, Australian Council for Educational Research.

McMILLAN, Dr J, consultant, Australian Council for Educational Research.

WAJCMAN, Prof J, member, council, Society for the Social Studies of Science; member, Policy committee, Industrial Relations Research Centre, UNSW.

Urban and Environmental Program

LAMBERTON, Dr D M, member: advisory committee, Faculty of Social Sciences and Humanities, University of Technology Sydney; Communications Economics Research Program, Curtin University; Communication Centre, Queensland University of Technology; Board member, International Telecommunications Society; consultant, measuring the knowledge-based information economy, Australian Bureau of Statistics.

MARSDEN, Dr S, member: National Environment Consultative Forum; International Union for the Conservation of Nature (Australian Committee); Australian Heritage Commission expert workshop on the Commonwealth's role in local heritage, and preferred options for a national list of heritage places; National judge, National History Challenge for Australian school students.

MAZUR, Dr N, member, NSW Koala Recovery Team.

NEUTZE, Prof M, consultant, measuring the knowledge-based information economy, Australian Bureau of Statistics; member, Australian Statistics Advisory Council; reference group for the Radiocommunications Act Review, Department of Communications and the Arts.

READ, Dr P, public officer, Link-Up (NSW) Aboriginal Corporation; member, steering committee, Bringing Them Home Oral History Project pilot program, National Library of Australia.

Resource and Environmental Studies, Centre for

DOVERS, Dr S R, member, International Society for Ecological Economics; Standards Australia working group on environmental risk management; Murray-Darling Basic Commission operating environment advisory committee; International Advisory Committee, International Society for Ecological Economics 2000 Conference; assoc editor, *Australian Journal of Environmental Management*; Government affiliations, Land and Water R&D Corporation, Murray Darling Basin Commission, Standards Australia, Emergency Management Australia, Environment Australia.

GHASSEMI, Dr F, editorial board member, *Environmental Modelling and Software*; guest editor, special issue, *Environmental Modelling and Software* on Groundwater Flow and Solute Transport Modelling.

HUTCHINSON, Dr M F, guest member, Steering Committee, International Geosphere-Biosphere Programme — Biospheric Aspects of the Hydrological Cycle (IGBP-BAHC); member, Organizing Committee, Seventh International Conference on Precipitation; consultant, World Bank Global Environment Fund (GEF), Australian Land Information Group (AUSLIG); Land and Water Resources Research and Development Corporation (LWRRDC); NSW Department of Land & Water Conservation (DLWC); adviser, Bureau of Rural Science, Agriculture, Fisheries and Forestry Australia; Environment Australia; Canadian Forest Service; Texas A&M University; Centro Internacional de Mejoramiento de Maiz y Trigo; Climate Research Unit, University of East Anglia; Potsdam Institute for Climate Impact Research; ACT Department of Environment; National Climate Centre, Australian Bureau of Meteorology; Queensland Department of Natural Resources; Victorian Department of Natural Resources.

IRONS, C D, adviser, Corangamite Region Catchment Management Authority, Victoria; consultant, Victorian Department of Environment and Natural Resources; CSIRO Multi-Divisional

Program on Dryland Farming Systems for Catchment Care.

JAKEMAN, Dr A J A, Adjunct Prof, University of Western Australia; editor-in-chief, *Environmental Modelling and Software*; member, Editorial Advisory Board, *Encyclopaedia of Life Support Systems*; associate editor, *Journal of Forecasting* (Wiley), member, editorial board, *Hydrological Processes*, *Ecological Modelling*; *Environmetrics*; *Environmental Software*, *Systems Analysis Modelling Simulation*; president, Modelling and Simulation Society of Australia and New Zealand Inc.; chair, Atmosphere, State of the Environment, ACT Region; member, Technical Advisory Board, The International Institute of Environmental Sciences and Environmental Computing.

JAMES, R, director, Wetlands International — Oceania.

LINDENMAYER, Dr D B, member, IUCN/SSC Australasian Marsupials and Monotremes Specialist Group; Greening Australia Advisory Committee; Leadbeater's Possum Recovery Team, Victorian Department of Conservation of Natural Resources; editorial board, *Landscape Ecology: Ecological Applications*, *Environmental Software and Modelling*; adviser, Department of Land and Water Conservation; consultant and expert adviser, Environment Australia; NSW National Parks and Wildlife Service; Greening Australia; State Forests of NSW; NSW Department of Land and Water Conservation.

MCCARTHY, Dr M A, consultant, Environment Australia; regional councillor (ACT), Ecological Society of Australia.

NIX, Prof H A, Adjunct Prof, University of Queensland, visitor, CRC for Coastal Zone, Estuary and Waterway Management; Land Reference Group, State of Environment Report, Capital Region; Environmental Management Planning Committee, ANU; director, Water Research Foundation of Australia; member, Advisory Committee, Australian Network for Plant Conservation; Australian UNESCO Man and the Biosphere Committee; Recovery Team for *Burrhamys parvus*; Environment Committee, Australian Academy of Science; CSIRO Biodiversity Sector Advisory Committee; Birrigai Outdoor School Advisory Committee, ACT; CSIRO Inter-sectoral Advisory Committee on Tropical

Agriculture, Birds Australia Council; Research Advisory Group, Ballast Water Decision Support System, AQIS; Decision Support System for Ballast Water, Steering Committee, AQIS.

OLLIER, Prof C, member, Science Advisory Committee, Latrobe University, Bendigo Campus.

PEZZEY, Dr J, consultant, Australian Greenhouse Office.

ROBIN, Dr L, editor, History of Australian Science Newsletter; board member, Historical Records of Australian Science; Commonwealth Working Party, *Australian Dictionary of Biography*; Australian Humanities Review; consultant, National Museum of Australia; Birds Australia/Centenary of Federation (History and Education Program).

ROSS, Dr H, adviser, WHO Collaborating Centre in Environmental Health for the Asia/Pacific, University of Western Sydney; assoc editor, *Australian Journal of Environmental Management*; member, International Advisory Board, Impact Assessment and Project Appraisal; editorial board, *Society and Natural Resources*; International Committee, International Association for Impact Assessment; Board and Steering Committee, National Thai Studies Centre.

SMITH, D I, member, Emergency Management Australia, National Emergency Management Advisory Committee; Australian National Coordination Committee for the International Decade for Natural Disaster Reduction; editorial board, *Applied Geography*.

WASSON, Prof R J, member and officer, Scientific Committee, International Geosphere and Biosphere Program, ICSU; member, Capital Region State of the Environment Water Group; adviser and consultant, Upper Murrumbidgee Catchment Management Coordinating Committee; member, Australian Academy of Science Committee for Global Change; Australian Academy of Science Quaternary Research Committee; Healthy Rivers Reference Group, Environment Australia; International Association of Hydrological Sciences, Working Group on Landuse, Deforestation, Erosion, and Sedimentation; editorial board, *Quaternary International*; director, Water Research Foundation of Australia.

WHITE, Prof I, chair, Oyster Research Advisory Committee, Acid Sulfate Soils Management Advisory Committee, Technical Committee;

research director, Water Research Foundation of Australia; president, Australian Water and Waste Water Association — ACT Branch; member, Acid Sulfate Soils Management Advisory Committee; Standing Committee on Agriculture and Resource Management National Working Party on Acid Sulfate Soils; Scientific Advisory Committee Eurobodalla Shire Council; Cudgeon Lake Restoration Committee; STAR Water Working Group, South Pacific Applied Geoscience Council; consultant, UNESCO; AUSAID; ASSMAC; Olympic Games Co-ordinating Committee; Healthy Rivers Commission NSW; DLWC; Chipping Norton Lakes Authority; WA Department of Environment Protection.

The Faculties

Arts Faculty

Arab and Islamic Studies, Centre for

NOURZHANOV, Dr K, consultant, Family Law Court.

SADIKI, Dr L, consultant, Refugee Review Tribunal, Department of Immigration and Multicultural Affairs.

SAIKAL, Prof A, member, Expert Adviser Group on 'The Religious Implications of the Middle East Conflict', InterAction Council; formal and informal consultant, Refugee Review Tribunal, Department of Immigration and Multicultural Affairs; Department of Foreign Affairs and Trade; briefing session, Refugee Review Tribunal; lecturer, Royal Australian Navy Staff College; Australian Defence Force Academy; member, Iranian Tourism Advisory Panel; informal advice to Under Secretary of State for Political Affairs, US Government; guest of Government of Kingdom of Saudi Arabia at Kingdom Centenary celebrations; visit to Egypt hosted by State Information Service of Egypt.

Classical and Modern European Languages

CARROLI, Ms, academic member, Italian Embassy panel for the selection of students for the award of Italian government scholarships (long and short term); (as NAATI translator Level 3) assisted the Embassy of Italy in the selection of future Embassy staff; consultant to DFAT and Italian Embassy staff on the new cultural agreement between Italy and Australia.

LIDDICOAT, Dr and Dr JANSEN, collaborated with ACTDECS in professional development needs of teachers in the ACT.

MULLER, Dr, adviser, ABC Radio National (Life Matters) on EC Social and Gender Policy, and to several Parliamentary Interns; member, selection panels at the French Embassy on scholarships at French Universities for Australian undergraduates and Australian assistantships at French schools.

PAPADAKIS, Prof with Prof C Bean, School of Social Science, Queensland University of Technology submitted a paper to the *International Journal of Public Opinion Research* (IJPOR), official journal of the World Association for Public Opinion Research (WAPOR); as a supervisor, collaborated with the Environment Protection Authority; organiser, with the Delegation of the European Union the Contemporary Europe Program, the 1999 Robert Schuman Lecture; invited by the Government of the Federal Republic of Germany and attended a series of seminars, held at the Europäische Akademie Berlin, to commemorate the 50th Anniversary of the Federal Republic and the 10th Anniversary of the fall of the Berlin Wall; held discussions with L de Maiziere, the last Prime Minister of the German Democratic Republic, and U Poppe, a human rights activist and founder of 'Democracy now', and Dr P Busse, Federal Commissioner for the Records of the State Security Service, former German Democratic Republic.

SCHMIDT, Ms, member, DAAD's (German Academic Exchange Service) selection committee for research scholarships; invited by DFAT to comment on a new cultural agreement between Australia and Germany.

History Department

BARNES, R W, contributed to public debate about the National Library of Australia's electronic and collecting policies, with articles and letters in *The Canberra Times*, *The Australian*, *Online Currents* and elsewhere; ANU representative, ACT Board of Senior Secondary Studies accreditation panel in Religious Studies.

BONGIORNO, Dr F R, taught an honours class at the University of Ballarat; member, Editorial Board, *Labour History*; Committee member, Friends of the Noel Butlin Archives; Judge, ACT Regional Finals, Tournament of Minds; treasurer, Canberra

Region Branch of the Australian Society for the Study of Labour History until October, then Assistant Secretary; member, committee organising conference 'Labour History in Australia Since 1975: A Retrospective Look Forward', held to recognise John Merritt's role in the study of Australian labour history; contributor, web-site of Australia's Cultural Network, an initiative of the federal Department of Communications, Information Technology and the Arts.

CURTHOYS, Prof A, chair, review of the University of Western Sydney's School of Cultural Histories and Futures, along with Prof E Jacka (UTS) and Associate Prof P Turnbull (ANU); member, Advisory Board, Senate Dictionary of Biography; member, Editorial Boards, *Aboriginal History*, *Australian Feminist Studies*, *Labour History*, *UTS Review*, *Public History Review*, *Journal of Australian Studies*, *Hecate*, *Feminist Review*; member, Expert Focus Group on Assessing Places for the National List, Australian Heritage Commission, Canberra; participant, Expert Advisory Groups, the National Museum of Australia.

DESLIPPE, Dr D, ANU representative, ACT Board of Senior Secondary Studies History Panel; member, Organising Committee, Canberra branch of the Australian Society for the Study of Labour History's conference, 'Labour History in Australia since 1975: a Retrospective and a Look Forward'.

HANCOCK, I R, member, Advisory Council, National Archives of Australia; Historical Consultant for the Release of Cabinet Records; member, Advisory Board, Biography of the Senate; member, Advisory Board for Research of the Department of Foreign Affairs.

HYSLOP, Dr A M I, member, Editorial Board, *Health and History*; member, Advisory Committee, Noel Butlin Archives Centre; member, Commonwealth Working Party of the Australian Dictionary of Biography.

KNOTT, Dr J W, consultant, National Archives of Australia for their exhibition ' "A Human Lottery" National Service 1964–1972'; consultant, National Museum of Australia for their transport exhibition; consultant, Bureau of Transport and Communications Economics, the Federal Office of Road Safety, and ACT Government Services about matters to do with the history of road safety;

adviser to the ABC's 4 Corners program on road safety in Australia.

McBRYDE, Emeritus Prof I, member, Editorial Board, *Aboriginal History*; member, Board of Management of Uluru Kata Tjuta National Park, Central Australia; member, Australia ICOMOS sub-committee on Kakadu National Park; field assessment and documentation of the regional archaeological context of a quarry site near Inverell, NSW; study for Archaeological Studies Pty Limited (Director: Robert Paton), referee's comments for the editor of *Current Anthropology*.

RAWSON, Emeritus Prof B, member, Editorial Board, *The Cambridge Guide to Classical Civilization*; member, Editorial Committee, *Antichthon*; reader of book MS for Princeton University Press.

Sociology Department

DENT, Dr O F, member, Medical Workforce Advisory Committee, Royal Australasian College of Physicians; member, ACT Cancer Society Medical and Scientific Advisory Committee; member, Steering Group of the Clinical Health Outcomes Centre, Canberra Hospital.

GREIG, Dr A W, Director, Community Housing Canberra Inc.

HOPKINS, Dr A P, expert witness, Royal Commission into the Longford gas plant explosion.

ROWLAND, Dr D T, member, Behavioural Sciences Accreditation Panel, ACT Board of Senior Secondary Studies.

Women's Studies

KENNEDY, Dr R, visiting Scholar, Centre for Research on Gender Relations, University of British Columbia (UBC) in Vancouver; wrote eight essays for the forthcoming *Encyclopedia of Feminist Theory*; member, Modern Language Association of America, presenter: Millenium Conference in Critical Psychology, and to the Centre for Research on Gender Relations at UBC; reviewer for *Signs* (a feminist journal); reviewed a book manuscript for publication; and examined a doctoral thesis.

KEANE, Dr H, contributed to a number of conferences in the areas of cultural studies,

science and technology studies and feminist studies.

PETTMAN, Dr J, presenter and chair of theme panel, International Studies Association conference, Washington; met with publishers and editorial board members regarding the *International Feminist Journal of Politics*; participant, ASEAN Inter-University seminar on Southeast Asia in the 21st Century, Prince of Songkla University, Pattani, Thailand; participant, Gendered Mobilities in Asia conference, Chinese University of Hong Kong; participant, ANU cross-campus 'Beyond the Global' project; examiner, doctoral theses; external evaluator in the tenure process for several United States universities; co-editor, *International Journal of Feminist Politics*; editorial board member, *Antepodium*, an electronic International Relations journal; member, External Research Associate, New Ethnicities Unit, University of East London, and Reference Group for the Academic Coordinator for Australian Indigenous Students, ANU; manuscript reader for Oxford University Press, Zed Books and California University Press; reader, *Journal of Asian Studies and for Millennium*.

Asian Studies Faculty

AKAMI, Dr T, Canberra representative for the Japanese Studies Association of Australia.

CHAN, Dr A, member, advisory board of the International Labor Rights Fund.

DE CRESPIGNY, Dr R R C, Adjunct Prof, elected President, Chinese Studies Association of Australia Inc, after a period as Honorary Treasurer.

HOOKER, Prof V, presented a briefing on Indonesia for the Dunlop Asia Leadership program organised by ASIA Link; chair of round table meeting between the secretary-general of Asian, Mr Rudolfo Severino and members of the University; speaker at the Winter Talk of the Australia Indonesia Association, Canberra; presented ABC Radio National Interviews for the programs 'Encounter' and 'Australia Talks Back' (speaking on Australia-Indonesia relations); facilitated a Memorandum Of Understanding between ANU and the University of ParamadinaMulya, Jakarta; awarded an Australia-Indonesia Institute grant in the context of the MOU to write a book entitled *Islam and Indonesia's Transition to Democracy*.

KUMAR, Dr A, continued as Treasurer, Australian Academy of the Humanities, also serving on the remunerations committee, publications committee, academy editions, and travel grants committee; this year able to clear the Academy's debt; this year elected Vice-President of the Academy.

LAN'KOV, Dr A, editor of the newsletter published by the Korean Studies Association of Australia.

QUINN, Dr G, collaborative work with Bishop Carlos Belo and the Justice and Peace Commission of the Diocese of Dili (East Timor) in preparing and managing the Dare II Peace and Reconciliation Conference held in Jakarta, 1999 which brought together 60 East Timorese leaders (30 pro-independence and 30 pro-Indonesia) in an effort to secure cooperation and reconciliation between East Timor's conflicting factions; collaborated with the Department of Peace and Conflict Research, Uppsala University in securing funding support for, and in managing, two smaller gatherings of East Timorese leaders, one held in Singapore, and the other in Tokyo in preparation for the World Bank donor's pledging conference on East Timor.

Thai Studies Centre, National

Academic staff from the Centre: arranged and taught special intensive Thai and Lao language courses for Department of Foreign Affairs and Trade, and Department of Defence and Ausaid; cooperated in the presentation of a one day conference: Thailand Update 1999 (University House, ANU); cooperated with Australian Youth Ambassadors in securing Thailand placements; completed translation projects for the National Science and Technology Centre and for the National Aquarium of Australia.

Economics and Commerce Faculty

Commerce Department

Department of Commerce, member, Australian Capital Markets Foundation; member, Asia Pacific Centre for Environmental Accountability; member, Asian Network of Accounting; specialist consultant to the Commonwealth Department of Immigration and Multicultural Affairs.

BARTON, Prof A; director, Uni-Super Ltd; chair, Audit and Compliance Committee; member,

Strategy Committee;(all to May 1999) member, ANU Investment Advisory Committee; member, Edith and Joy London Foundation Management Committee; member, Stromlo Exploratory Campaign Committee; member, Executive Committee, Cambridge Australia Trust; presented papers to the AAANZ Conference, Cairns and to The University of Wollongong Conference on Public Sector Management.

BRAILSFORD, Prof T J, member, Editorial Boards: *Accounting Research Journal*; *Accounting and Finance*; and *Accounting, Accountability and Performance*; Co-editor, *McGraw-Hill Series in Advanced Finance*; member, Executive Accounting Association of Australia and New Zealand; chair, Technical Program Committee, Accounting Association of Australia and New Zealand Annual Conference; External adviser (Treasury), Australian Society of Certified Practising Accountants; accreditation consultant chair, Australian Society of Certified Practising Accountants; member, Research Policy Committee, Asia-Pacific Capital Markets Ltd; Auditor, Asia-Pacific Finance Association

BURRITT, R L, Editorial panel, Accounting Forum; international coordinator of the Asia Pacific Centre for Environmental Accountability (with branches in Australia, China, Japan and New Zealand); conference papers to the AAANZ Conference, Cairns and the National Public Sector Accountants Conference, Australian Society of Certified Practising Accountants, Adelaide; seminar papers to the Center of Environmental Sciences, Peking Beijing University, China, Department of Accounting and Finance, University of Newcastle and the Sustainable Industries Branch Workshop on Environmental Accounting, Environment Australia, Canberra; presented oral evidence on Environmental Accounting and Reporting to the Public Estimates Committee and Estimates Committee, Victorian Government; advised on progress reporting to the Greenhouse Challenge at the Australian Greenhouse Office.

CRAIG, Prof R J, member, Editorial board, *Accounting Commerce and Finance: The Islamic Perspective*; *Asian Review of Accounting*; *Journal of Akuntansi and Auditing, Indonesia*; external adviser, Malaysian Graduate School of Management; paper to the 11th Annual Accounting Business and Financial History Congress,

University of Wales; invited public lecture to the Whitby Literary and Philosophical Society, Whitby; presented seminar paper Queensland University of Technology; member, Organising Committee, ANU/ASCPA Annual Research Lecture in Government Accounting; member ASCPA Universities Committee.

FLEMING, Dr G A, presented conference papers to ANU Macroeconomics Workshop, AAANZ Annual Conference, Economic Society of Australia Annual Conference; presented seminar paper for AUSTRADE (Singapore Office).

GLASSOP, L I, Executive member and Finance Coordinator, Australian Institute of Socio-Analysis; convener, Scientific Seminar on Organisational Learning, Australian Institute of Socio-Analysis.

HEANEY, Dr R A, member, Editorial Board, *Accounting Research Journal*; conference paper to 12th Annual Australasian Finance & Banking Conference, Sydney; conference paper to the European Financial Management Association (EFMA) Conference in Paris, France; seminar paper at the University of Melbourne; Book review editor, *Accounting and Finance*.

TRAN, Dr A V, presented a conference paper to the first China Accounting and Finance Review Conference, Hong Kong; reviewed papers for the Annual Conference of Accounting Association of Australia and New Zealand; presented workshops for the Australian Society of Certified Practising Accountants; provided research consulting service to Department of Immigration and Multicultural Affairs (Business Skills Section), Commonwealth Government.

Economic History Department

CORNISH, S H (with FLEMING, Dr G A) organised History of Economic Thought Society of Australia Annual Conference, Australian National University and presented a paper to the Conference; chair, ACT Board of Senior Secondary Studies; consultant, Aboriginal and Torres Strait Islander Commission.

GAGE, J E S, presented a session to Defence and Industry Study course, Department of Defence; arranged Public Lectures for the Minister of Foreign Affairs The Hon. Alexander Downer (Fourth Robert Schuman Lecture) and for the

Treasurer of the Italian Government and former Prime Minister of Italy, Prof Guiliano Amato.

KENT, Dr B, presented a conference paper to 'The Wall and After: Europe in the Late 20th Century' Conference, University of New South Wales, Sydney.

MARTINA, Dr A, member, Advisory Board, *Journal of Interdisciplinary Economics*.

van der ENG, Dr P, presented conference papers to Gadjah Mada University, Yogyakarta, and the Annual Conference of Economic History Society of Australia and New Zealand; collaborated in the Asian Historical Statistics Project, Hitotsubashi University Institute of Economic Research.

VILLE, Dr S P, editor, *Australian Economic History Review*; presented conference papers to the Annual Conferences of the Australian Historical Association, University of Tasmania, the Economic History Society of Australia and New Zealand, Sydney, and to the National Scholarly Communications Forum, Canberra.

Economics Department

ALBON, Dr R, director, Centre for Applied Economics; editor, *Agenda*; director, Centre for Applied Economics; member, Judging Panel, Australian Institute of Public Administration Prize for Commonwealth Statutory Authority Annual Reports; organisation and partial conduct of courses in 'Managing Utilities' for South Australian Water Corporation, Adelaide and United Water, Adelaide; organisation and conducting of two sessions of a Short Course on Cost-Benefit Analysis for Regulatory Review for the Productivity Commission's Office of Regulation Review; external referee for Productivity Commission's Position Paper on *International Telecommunications Market Regulation*; external referee for the applied welfare analysis in the Productivity Commission's report, *The Australian Gambling Industries*; interview on the use of cost concepts in telecommunications analysis published in conjunction with the Australian edition of John Taylor's *Microeconomics*.

BENGE, Dr M, 'A Goods and Services Tax', address to the Economics students at the University of Canberra; 'Business Taxation Reform', address to the Australian Senate Finance and Public Administration Committee on Business Taxation.

CHEN, Dr P, member, Economics Accreditation Panel, ACT Board of Senior Secondary Studies; reviewer, draft syllabus package for Economics Stage 6, NSW Board of Studies; external examiner for PhD thesis, University of Western Australia.

DOWRICK, Prof S, consultant, Productivity Commission on 'Microeconomic Reforms and Australian Productivity'; consultant, Department of State Development, Victoria, on 'Innovation and Economic Growth'; member, ANU/University of Canberra Working Group on an Economic Impact Study for the ACT.

GRANT, Prof S, chair, Australian Research Council's Social Sciences and Humanities Discipline Panel; member, Committee of Review, Charles Sturt University's Faculty of Commerce; member; Editorial Board, *Journal of Mathematical Economics*; member, Editorial Board, *Australian Economic Papers Refereeing: American Economic Review, Australian Economic Papers, Canadian Journal of Economics, Econometrica, International Economic Review, Journal of Economic Behaviour and Organisation, Journal of Economic Theory, Journal of Industrial Economics, Review of Economic Studies*.

KLINE, Dr J, referee, *Journal of Economic Behavior and Organization, Australian Economic Papers; Australian Economic Review*.

KOMPAS, Dr T, Economic Theory Refresher Course, Fiscal Policy, Treasury.

MENEZES, Dr F, Economic Theory Refresher Course, Auction Theory, Treasury; session chair at FESEM99 in Singapore; 'Understanding Auctions: Theory and Practice'; special lectures given at the XXI Meeting of the Brazilian Econometric Society, Belem; discussant at: FESEM99 (Singapore); 1999 Economic Theory Workshop (Melbourne), XXI Meeting of the Brazilian Econometric Society; referee: Australian Research Council, Economic Record, International Economic Review, Journal of Public Economic Theory, Mathematical Social Sciences, Pesquisa e Planejamento Economico, Review of Economic Design, Revista de Econometria, Revista de Brasileira de Economia

TYERS, Dr T, delivered the Jean Monnet Lecture, 24th Annual Conference, International Economics Study Group of the UK; Visiting Fellow, School of Economics, University of Nottingham; external referee, Industry Commission, Melbourne, coal

sector modelling and benchmarking; honorary research fellow, Global Trade Analysis Project, Purdue University, West Lafayette, Indiana; lecturer, international economics, Treasury department refresher course in economics.

WELLS, Dr G, coordinator and participant in Treasury contract on Refresher courses; convener, Fourth Australian Macroeconomics workshop; invited visit to Dongbei University of Finance and Economics, Dalian, Peoples Republic of China; referee for New Zealand Treasury Long-term Fiscal Model project; co-editor, *Economic Record* (from May, 1999); associate editor, *Agenda*.

Statistics and Econometrics Department

BREWER, Dr K, adviser, ACT Assembly on statistical issues and problems with the Robson Rotation and possible solutions.

MARTIN, Dr M A, statistical consultant, Centrelink audit, Australian National Audit Office.

NICHOLLS, Prof D F, statistical and/financial advice for Commonwealth Department of Health and Aged Care; Commonwealth Department of Family and Community Services; Australian Education International (DETYA); ACT Tax Industry and the ACT Government; expert witness for the following: review of the Professional Services Review Scheme (for the detection of inappropriate practice in the medical profession) and Legislative Assembly, ACT Standing Committee on Urban Services Inquiry into the impact of property charges on investment in the ACT.

O'NEILL, Dr T J, consultant, Department of Natural Resources and Environment, Victoria and the Department of Health and Aged Care.

STERN, Dr S E, statistical consultant, Centrelink audit, Australian National Audit Office.

Science Faculty

Biochemistry and Molecular Biology Division

ALTIN DR J G, reviewed papers for journal *Analytical Biochemistry*.

BEHM, Dr C A, collaborated with Assoc Prof M R Edwards, School of Biochemistry and Molecular Genetics, University of New South Wales and Dr W N Grant, School of Biological Sciences, Flinders University; attended *Science meets Parliament*,

organised by FASTS, as a nominee of the Australian Society for Parasitology, discussions with the Hon Dick Adams, Member for Lyons, and Senator Kate Lundy (ACT); archivist and council member, Australian Society for Parasitology; specialist editor, *International Journal for Parasitology*; referee, *Biochimica et Biophysica Acta*, *Parasitology Today*, *Parasitology*, *International Journal for Parasitology*, *Acta Parasitologica*; assessor, NH&MRC, ARC, NSF (USA), Wellcome Trust (UK); presented a paper in Edinburgh; spent five weeks in the laboratory of Dr W N Grant, School of Biological Sciences, Flinders University; presented a paper and attended the Council Meeting at the Annual Scientific Meeting of the Australian Society for Parasitology in Rockhampto.

CLARK Dr I, collaborated with Dr T Taylor and Dr M Molyneux, Queen Elizabeth Central Hospital, Blantyre, Malawi; member, editorial boards of *Experimental Parasitology* and the *International Journal for Parasitology*; referee for *Lancet*, *Journal of Infectious Disease*, *Transactions of the Royal Society of Tropical Medicine and Hygiene*, *Journal of Immunology*, *Parasitology Today*, *Infection and Immunity*, *Parasitology*, and *International Journal for Parasitology*; reviewed grant applications for NH&MRC, ARC, National Heart Foundation, Wellcome Trust, Tropical Disease Research section of the World Health Organization, University of Queensland, Binational (US/Israel) Science Foundation, Canadian MRC, and the National Research Foundation of South Africa; secretary, National Association of NH&MRC Research Fellows, maintains the NARF Homepage, a member of the NH&MRC's Grantnet Users Reference Group, and their representative on the overall Grantnet Management Committee; member: Australian Society for Medical Research, Australian Society for Immunology, Australian Society for Parasitology, British Society for Immunology, Australasian Society for Free Radical Research, and the American Society of Tropical Medicine and Hygiene; presenter, seminar at the Queensland Institute of Medical Research.

CLEMENTS Dr J, research projects with Dr S Oleskevich, Dr P Sah, Dr G Stuart, Dr R Taylor, Division of Neuroscience, JCSMR, and Dr R Grantyn, Developmental Physiology, Institute for

Physiology, Humboldt University of Berlin, Germany.

DAY Prof D A, collaborative projects with: Prof J Wiskich, University of Adelaide; Dr J Whelan, University of Western Australia; Dr S Tyerma, Flinders University of South Australia; Prof A Puppò, University of Nice, France; member, management committee, *Green Machine Science Education Centre*; editor, *The Biochemical Journal* and editorial panel member, *Journal Biochimica Biophysica Acta*; reviewed papers for: *Plant Physiology*, *Journal of Biological Chemistry*, *European Journal of Biochemistry*, *The Biochemical Journal*, *Australian Journal of Plant Physiology*, *Planta*, *Physiologia Plantarum*, *Symbiosis*, *Plant Physiology and Biochemistry* and *BBA*; reviewed grants for: The National Science Foundation USA, USDA, European Community, Canadian Research Council and the Australian Research Council; faculty opponent to a PhD defence at the University of Stockholm, Sweden, two weeks teaching at the Riso National Laboratories of Denmark with Drs L Rosendahl and P Mouritzen; visited the laboratory of Prof A. Puppò in Nice, France; chaired a symposium at the 12th International Congress on Nitrogen Fixation, Iguassu, Brazil and presented the J G Wood memorial lecture to the Australian Society of Plant Physiologists at the ComBio Conference at the Gold Coast.

HOWITT, Dr S M, collaborations with Dr M Udvardi, Max Planck Institute of Molecular Plant Physiology, Germany; Dr P Ryan, CSIRO, Division of Plant Industry, Canberra and Dr J Whelan, Biochemistry Department, University of Western Australia.

JANSSENS, Dr P A, collaborations with CSIRO Division of Wildlife and Ecology, Agricultural Protection Board of Western Australia, Department of Conservation and Land Management, Western Australia, and John Curtin School of Medical Research, ANU, in the CRC for Biological Control of Vertebrate Pest Populations; local coordinator, Undergraduate Summer Course *Techniques in Field Ecology*, partly taught by CRC for Biological Control of Vertebrate Pest Populations staff, under the auspices of the Division of Biological Sciences, University of Wollongong; member, editorial board, *General and Comparative Endocrinology*; referee, *Journal of*

Endocrinology and Comparative Biochemistry and Physiology; external examiner of PhD theses for University of Melbourne and University of New South Wales; Deputy Director and Education Program Leader of the Vertebrate Biocontrol CRC.

KIRK, Prof K K, collaborations with: Dr G Biagini and Assoc Prof M Edwards, School of Biochemistry and Molecular Genetics, UNSW; Dr A F Cowman and Dr M Reed, Walter and Eliza Hall Institute for Medical Research; Dr H M Staines and Prof J C Ellory, University Laboratory of Physiology, University of Oxford, and Dr V Lew and Dr T Tiffert, Physiology Department, University of Cambridge; Dr S Krishna and Dr C Woodrow, St Georges Hospital Medical School, London; Dr R Z Kozlowski, Dept of Pharmacology, University of Oxford; Prof G Richards and Prof S Davies, Dept of Chemistry, University of Oxford.

MARTIN, Dr R L, reviewer of grants for NH&MRC and National Heart Foundation.

O'NEILL, Dr H C, collaborated with: Dr J Chen, Centre for Cancer Research, Massachusetts Institute of Technology, Cambridge, MA, USA; with Dr S Saeland, Schering-Plough Laboratory for Immunological Research, Dardilly, France; member, editorial board and reviewer for *Immunology and Cell Biology*; review panel member, *Journal of Immunology*; referee of NH&MRC project grant applications; compiled a special issue for *Immunology & Cell Biology* on "Development and Function of Dendritic Cells".

POGSON Dr B, co-supervisor of PhD students based at CSIRO Plant Industry, UC Berkeley, Arizona State University and University of Nevada; reviewer, *Proceedings for National Academy of Science*, USA; papers for *Physiologia Plantarum*, *Journal of Plant Physiology*, book review in *The Quarterly Review of Biology*; reviewed grants for United States Department of Agriculture NCGRIP, United States Department of Energy; member, management committee, *The Green Machine Science Education Centre* (ANU); member, National Science Foundation, Australian Planning Committee, International Photosynthesis Congress, Brisbane 2001 and on the Poster Judging Panel for the 12th International Symposium on Carotenoids; professional memberships include American Society of Plant Physiologists, Australian Society of Plant Physiologists and International Society for

Photosynthesis Research; member, CRC for Functional Genomics Planning Committee.

SMITH, Dr G D, interviewed for the program "Fuzzy Logic" on the radio station 2XX, following the discovery of a new class of chemicals named calothrixins, which have great potency against malaria and cancer cells in culture; the chemicals have also been patented by ANUTECH with a view to seeking commercial interest; referee for the *Archives of Microbiology* and *Journal of Applied Phycology*.

TIERNEY, Dr L, collaborated with: Dr Unwin, MRC — Laboratory of Molecular Biology, Cambridge, UK; with Dr R Spencer, Howard Hughes Medical Institute, California Institute of Technology, California, USA.

van LEEUWEN Dr B H, collaborated with staff of Vertebrate Biocontrol Cooperative Research Centre; the Pest Animal Control Cooperative Research Centre and CSIRO, Entomology, in student supervision; member, National Health Sciences Centre Research Committee; Medical Sciences Board of Studies; Medical Sciences Honours Scholarship Committee.

VERMA Dr N K, collaborated with Dr A Weintraub, Karolinska Institute, Sweden; member, Accreditation Panel for the ACT Board of Senior Secondary Studies; assessor of grant applications for the NH&MRC and ARC; examined a PhD thesis from University of Wollongong.

WEIR Dr R C, collaborated with: L Hueston, Centre for Infectious Diseases and Microbiology, Institute for Clinical Pathology and Medical Research, Westmead Hospital, and Dr J Davies, Department of Biochemistry and Molecular Biology, Monash University; reviewed grant applications for the ARC and the NH&MRC.

Chemistry Department

BARROW, Dr R, RACI, NSW Branch, Natural Products Group committee member for 1999–2000.

BECKWITH, Emeritus Prof A L J, member, Board of Directors, Australian Science Olympiads; treasurer and member, Council, Australian Academy of Science; member, External Advisory Boards, Faculty of Science, University of Wollongong and the School of Chemistry, University of Sydney.

CHAI, Dr C L L, member, Organising Committee, 11th Royal Australian Chemical Institute Convention (RACIC); chair, Organic Division Organising Committee, 11th RACIC; assessor, grant applications, ARC and papers for the *Australian Journal of Chemistry*.

HUMPHREY, Dr M G, Inorganic Division representative, Organizing Committee, 11th RACI Convention; ACT representative, Inorganic Division; President-Elect, ACT Branch, Royal Australian Chemical Institute; assessor, grant applications, ARC and National Science Foundation (USA) and papers to Organometallics (ACS), J. Phys. Chem. (ACS), and Chem. Commun. (RSC).

SALEM, Dr G, ANU representative, ACT Schools Accreditation Panel for General Science; chair, chemical education division organising committee for 11th RACIC; chair, ACT chemical education group; ACT representative, Chemical Education Standing Committee and director, Australian Chemistry Olympiad.

SELINGER, Emeritus Prof B, regular column writer, *Canberra Times* (So Why Is it?); member, ACT Environment Council; chair, Homebush Bay Environmental Reference Group, Olympic Coordination Authority; presented professional training courses for ministerial staff at Parliament House.

STRANGER, Dr R, treasurer, ACT Branch of the Royal Australian Chemical Institute (RACI); ANU representative, ACT Schools Accreditation Panel for Chemistry; member, RACI Chemical Education Committee; member, organisation committee of both the Inorganic and Educational Chemistry Divisions for the RACI 11th National Convention; participant, Australian Academy of Science Focus Group Meeting on *Teaching and Learning in Science*.

Forestry Department (School of Resource Management and Environmental Science)

BANKS, Dr J C G, adviser, on tree ages and growth rates in old growth mountain gum, Kosciuszko National Park; adviser, land rehabilitation on following open cast mining, Tomago Sandbeds, RZM Newcastle; fire and Australian plants for Australian National Botanical Gardens Volunteer Guides; yellow box and red gum woodlot trials, ACT, Southern Tablelands Farm Forestry Network.

BAUHUS, Dr J, steering committee member, Forest and Wood Products Research and Development Cooperation — WAPIS Montreal Soil Indicators Project; member, Cooperative Research Centre for Greenhouse Accounting; member, Research Working Group 4 (Silviculture of Indigenous Forests) of the Standing Committee on Forestry; member, Scientists for Sustainability Network; member, Boboyan Pine Plantation Working Group to advise the ACT Parks and Conservation Service on forest ecosystem rehabilitation.

BRACK, Dr C L, adviser, on forest mensuration, inventory or modelling provided via his www-resources to: Auspine Limited (South Australia), Serve-Ag Pty Ltd (Forestry Consultants, Tasmania), Centre for Forest Tree Technology (Victoria), Purser Tarleton Russell Ltd (Forest Industry Consultancy & Research, Ireland), Borde Timbers Limited (Zimbabwe), ITC/Forest Science (Netherlands), Timbertech Co (Japan), University of British Columbia (Canada), Lincoln University (New Zealand), Global Association of Online Foresters, various US Colleges; chair, Research Working Group #2 (Forest Measurement and Information), reporting to the Research Priorities and Coordination Committee (RPCC) of the Standing Committee of Forestry (SCF); co-edited and published *Code of Forest Mensuration Practice* (with Drs Wood and Turner) on behalf of RWG#2; chair, International Union of Forest Research Organisations (IUFRO) working group 4.02.03 (Inventories on Successive Occasions); editor of S4.03-02 Newsletter (ISSN 1326-0626); participant, developing *State of the Art Report* for IUFRO Division 6.15-00 (Improving education and further education in forestry); participant, discussions on forestry education at the University of British Columbia, University of Freiburg and University of California; representative, ACT Legislative Enquiry into Urban Tree Management; participant, Farm Forestry and Sustainable Land Management Forum at Parliament House, Canberra, ACT.

BUCHY, Dr M, lecturer, Integrated Forest Planning (Anutech short course); contributor, Developing and evaluation framework for the farm forestry program, AFFA (two workshops).

EVANS, Dr P D, adviser to Australian War Memorial on use of Australian Timbers for manufacture of Lee Enfield 303 rifle; consultant (continuing),

wood identification and properties for Australian Federal Police and Bureau of Air Safety Investigation.

FIELD, Dr J B, adviser to the Bellalba/Krawaree Landcare group on GIS and Remote Sensing applications; honorary consultant to Boorowa Landcare Group on Land Use Changes to Reduce Ground Water Recharge and Salinity; collaborative STFFN Project on Liming acid soils for farm forestry planting of *Pinus radiata*, Inverary via Bungonia, NSW; collaborative research project with Dr C Borough and Mr S Thomas of AFG on Magnesium deficiencies in *Pinus radiata* Tallaganda, NSW; Survey of Cost of Revegetation with J Schirmer in cooperation with Greening Australia Inc and Environment Australia; cooperating with Dr H Gitay, R Cunningham and S Gray of Braidwood Landcare on research project — Effects of Parent Tree Habitat on Survival of Seedlings of Local Species in Rehabilitation of Saline Acid Soil Sites; hosted two BHP Science Students research projects.

JAMES, Dr R, consultant with Drs Banks and Brack to Canberra Urban parks on development of DISMUT decision support system for management of Canberra urban tree resources; ANU representative on Forest Technology Program (with University of Melbourne and Australian Logging Council); adviser (with Drs Turner and Brack) to Wilmott Forest Management Ltd on establishment of their stand record system; adviser, to ACT Forests on wood flow calculations for private forest resources.

KANOWSKI, Prof P J, chair, NSW Southern Region Regional Forest Forum, as part of NSW Regional Forest Agreement Process; chaired a session in Crawford Fund's Parliament House seminar, *The food and environment tightrope*, and at Institute of Foresters of Australia Biennial Conference; consultant to: Department Agriculture, Forestry and Fisheries Australia; AusAID; Environment Australia.

MAHENDRARAJAH, Dr S, adviser, Kokonut Pacific Pty Ltd and co-researcher on energy economics of freshly expelled coconut oil in the South Pacific; worked with Dr O Kennedy, Wollongong University; Dr D Etherington, Kokonut Pacific Pty Ltd, Canberra, Tavita Kate, Taveuni Coconut Centre, Fiji; member, ACT Board of Senior Secondary Studies Accreditation Panel 'Agri-

culture'; lead co-editor with Prof A J Jakeman, CRES and Prof M McAleer, University of Western Australia of "Modelling Change in integrated economic and environmental systems" (John Wiley, 1999).

RACE, D, lecturer, on agroforestry, Oxford Forestry Institute, University of Oxford; co-organisator, workshop on forestry partnerships between community and industry, with International Institute for Environment and Development (IIED) and United Nations FAO.

TANTON Dr M T, adviser, NSW Government, through Administrator of Maclean Rainforest Reserve trust, on social and other issues relating to dispersal of flying-foxes from the reserve; referee, Wildlife Research and Biological Conservation; adviser, Oxford University Press, new book on management of protected areas in Australia.

TIDEMANN, Dr C R, member, Cooperative Research Centre for Pest Animal Control; member, Key Centre for the Sustainable Use of Tropical Wildlife; presenter, workshop on mitigation of orchard damage by winged vertebrate pests to the Snack Fruit '99 Conference; adviser, NSW RFA process in relation to bats; member, Bat Expert Group of Environment Australia; member, Vertebrate Pest Advisory Committee and the Flora and Fauna Advisory Committee of the ACT Government; adviser, Australian Apple and Pear Growers Association (bats/birds); Australian Fresh Stonefruit Growers Association (bats/birds); Environment ACT (flora/fauna/vertebrate pests); Environment Australia (bats); Fairfield City Council (bats/habitat reconstruction); Environment Australia (bats); Maclean Shire Council (bats); Mareeba Shire Council (mynas); Melbourne Botanic Gardens (bats); Mosman City Council (mynas); NSW Agriculture (bat-borne diseases); NSW Crown Solicitor (bats); NSW Department of Education and Training (bats); NSW National Parks and Wildlife Service (bats); Queensland Department of Natural Resources and Heritage (mynas); Victorian Department of Natural Resources and Heritage (bats).

TURNER, Dr B J, member, UNSW-led consortium of east coast universities, continuing super-computing support for remote sensing research; chair, Spectroradiometer Consortium; member, Forest Planning & Spatial Information Working Group of Australian Forestry Council; member,

Forest Measurement and Information Working Group; consultant, state and Commonwealth governments on Regional Forest Agreements; chair, Expert Panel on Calculation of Sustainable Sawlog Yield for Jarrah and Karri Forests, WA; consultant, State Forests NSW to review "Taper Functions and Mean Taper Ratio in Eucalypts of Eastern NSW" with Dr C L Brack; consultant, Australian Greenhouse Office in organising a workshop and writing review report on biomass estimation (with other staff); member, of the organising committee for a Reunion of Australian Forestry School Alumni in 2000; reviewed paper for Australian Forestry and a PhD thesis for UNSW.

Geography Department (School of Resource Management and Environmental Science)

BAKER, R, collaboration with NPWS Kosciuszko National Park on visitor monitoring.

GREENE, Dr R, collaboration with Agriculture WA in a project on soil structure decline in irrigated horticulture in the Manjimup region of WA.

DUMARESO, D, with Dr R Greene, investigated the relationships between soil aggregation, infiltration, fauna and phosphorus fertiliser use in alternative systems for sustainable cropping at Ardlethan, NSW, supported by a grant from the Rural Industries Research and Development Corporation and farms in the area.

VAN DIERMEN, P, with The Asian Development Bank, assessor, technical assistance programs for small and medium size industries on an ongoing project and policy adviser to government agencies; member, Institute of Australian Geographers; New Zealand Geographical Association; Asian Studies Association of Australia; New Zealand Asian Studies Association.

Geology Department (School of Resource Management and Environmental Science)

ARCULUS, Prof R J, cooperative research with the Solomon Islands Geological Survey; collaborative research with the Australian Geological Survey Organisation; member, Geological Society of Australian Congress (1996) Scientific Committee.

BLEVIN, Dr P L, Councillor of Executive Division, Geological Society of Australia.

CAMPBELL, Prof K S W, chair, Schools Geology Project; DITAC Australia/Russia Scientific Exchange Committee.

CHAPPELL, Prof B W, with Lachlan Mapping Project, AGSO, Granites Geochemistry Project, Geological Survey of Queensland.

CHOPRA, Dr P N, negotiated a Memorandum of Understanding with the Australian Geological Survey Organisation for on-going collaborative research in geoscientific computing and geophysics; committee member, Geological Society of Australia Specialist Group in Geoscience Computing; committee member, ACT Division of the Australian Society of Exploration Geophysicists; Australian Earth Data On-Line Project with ACT Emergency Services Bureau; Hot Rock Energy Project, NSW Hunter Valley with Pacific Power.

CLARKE, Dr J D A, with AGSO on the Glimore project, with PIRSA on the Eucla Basin.

DE DECKKER, Dr P, member, committee evaluating research proposals in Earth Sciences for the Australian Antarctic Division (ASAC Committee); member, Steering Scientific Committee of PAGES on past climate changes, part of IGBP.

EGGLETON, Prof R A, council member, AIPEA; program leader CRCLEME with UC, AGSO, CSIRO.

ELLIS, Dr D J, Cooperative research with AGSO, National Institute of Polar Research, Japan.

MAGEE, Dr J W, member, Willandra Lakes Region, World Heritage Property, Technical and Scientific Advisory Committee; Australian Representative, International Geological Correlation Program (IGCP) Project 413: Understanding Future Dryland Environmental Changes from Past Dynamics.

MUNSON, Dr T J, collaborative research with the Department of Earth Sciences, University of Queensland, Geological Survey of New South Wales, and Department of Earth Sciences, Macquarie University; Honorary Treasurer, Association of Australasian Palaeontologists.

OPDYKE, Dr B N, corresponding member, Scientific Committee on Oceanic Research (SCOR) Working Group 104: Coral Reef Responses To Global Change; The Role Of Adaptation, resource member, South-east Asian LOICZ (Land-Ocean interactions in the Coastal Zone) group (funded by the Dutch);

collaboration in Australia with AIMS and CSIRO with project TROPICS off the coast of PNG.

RIDE, Prof W D L, commissioner, International Commission on Zoological Nomenclature; chair, Editorial Committee, 4th Edn International Code of Zoological Nomenclature; member, Joint Academies Committee on Museums; Representative Australian Academy of Technological Sciences and Engineering and Chair CRA National Science Summer School Council; member, International Advisory Board, *Zoosystematica Rossica*.

STRUSZ, Dr D L, titular member, International Subcommission on Silurian Stratigraphy; council member, International Working Group on Fossil Cnidaria and Porifera.

YOUNG, Dr G C, corresponding member, Subcommission on Devonian Stratigraphy, International Union of Geological Sciences.

Psychology Division

BYRNE, Prof D, foundation chair, ACT Psychologists Board; member, ACT Mental Health Tribunal; member, Advisory Group on Stress and Illness, Veterans Medical Authority; president, International College of Psychosomatic Medicine (Immediate Past President after May 1999); member, Panel D Committee, Academy of the Social Sciences in Australia; member, Professional Development and Accreditation Advisory Group, Australian Psychological Society.

LEVICK, Prof W, with the Australian Academy of Science; member, Advisor's Committee of the Australian Foundation for Science (Australian Academy of Science); member, House and Precincts Committee, Australian Academy of Science; member, Editorial Board, *Biological Cybernetics*; assessor, National Health and Medical Research Council; assessor, Australian Research Council.

University Schools and Centres

Aboriginal Economic Policy Research, Centre for

Centre Staff, on Native Title issues, provided submissions and expert evidence requested by the House of Representatives Standing Committee on Aboriginal and Torres Strait Islander Affairs in its Inquiry into the Reeves Review of the

Northern Territory Aboriginal Land Rights Act and organised 'Evaluating the Reeves Report: Cross-Disciplinary Perspectives' conference; with Northern Land Council convened 'An Alternative Model for 21st Century Land Rights' workshop; presented CAEPR seminar series included discussants from the Aboriginal and Torres Strait Islander Commission, Alcohol and other Drugs Council of Australia, Department of Education, Training and Youth Affairs, Torres Strait Regional Authority, Department of Family and Community Services, Department of Prime Minister and Cabinet, Australian Bureau of Statistics, Canberra Business Centre, Commonwealth Grants Commission, Department of Transport and Regional Services, Centrelink, and the University of Sydney; assisted others with curriculum development, teaching, assessment, workshops; provided advice to students; national media; visiting foreign government delegation on Indigenous affairs and economic reform in Australia.

ALTMAN, Prof J C, member: Scientific Program Advisory and Evaluation Group Co-operative Research Centre for sustainable development of tropical savannas; Aboriginal and Torres Strait Islander Commission's Economic Development Advisory Committee; Board, Key Centre Tropical Wildlife Management Northern Territory University; Commission on Anthropology of Tourism International Union of Anthropological and Ethnological Sciences; Australian New Zealand Sustainable Use Specialist Group, International Union for Conservation of Nature and Natural Resources; Advisory Group to Desert Aboriginal Arts and Crafts story; consultant: Maningrida Arts and Culture business development plan, national label of authenticity quality assurance assessment; associate editor, Tourism Studies; editorial committee, Australian Institute of Aboriginal and Torres Strait Islander Studies Issues of Native Title; valuer, Cultural Bequests Program for Australian Aboriginal art; submissions to the House of Representatives Standing Committee on Aboriginal and Torres Strait Islander Affairs Inquiry into the Reeves Review of the Northern Territory Aboriginal Land Rights Act; Reference Group on the National Action Plan for Addressing Indigenous Disadvantage, Council for Aboriginal Reconciliation; capacity building workshops Ngurratjuta Aboriginal Corporation,

Alice Springs; assessor, Australian Research Council, Australian Institute of Aboriginal and Torres Strait Islander Studies; assessor, ARC grants; Referee for The Australia Institute.

FINLAYSON, Dr F, consultant to: Aboriginal and Torres Strait Islander Commission to participate in a comprehensive review of Native Title Representative Bodies in the aftermath of the Native Title Amendment Act 1998; Steering Committee of Office of Evaluation and Audit for Aboriginal and Torres Strait Islander Commission's Native Title Representative Bodies Program; Member, Minister for Aboriginal Affairs Native Title Representative Bodies teams for re-recognition of Native Title Representative Bodies; longitudinal study of the effectiveness of income support payments for Indigenous children and their families and households for Department of Family and Community Services; member editorial board, Aboriginal History; assessor, Native Titles Research Unit, Australian Institute of Aboriginal and Torres Strait Islander Studies.

GRAY, Dr M, consultant to Department of Employment, Workplace Relations and Small Business on pathways to employment for Indigenous Australians.

HUNTER, Dr B, Ronald Henderson Research Foundation Fellowship for a coordinated approach to Indigenous employment; consultant to Department of Employment, Workplace Relations and Small Business on pathways to employment for Indigenous Australians; referee, Economic Record; Australian Economic Review.

LEVITUS, R, consultant to, National Museum of Australia on the history of Aboriginal rights; submission to the House of Representatives Standing Committee on Aboriginal and Torres Strait Islander Affairs Inquiry into the Reeves Review of the Northern Territory Aboriginal Land Rights Act.

MARTIN, Dr D, consultant to National Native Title Tribunal on incorporation of Prescribed Bodies Corporate; participation in a comprehensive review of Native Title Representative Bodies in the aftermath of the Native Title Amendment Act 1998 at the request of Aboriginal and Torres Strait Islander Commission; member, Minister for Aboriginal Affairs Native Title Representative Bodies teams for re-recognition of Native Title

Representative Bodies; submission to the House of Representatives Standing Committee on Aboriginal and Torres Strait Islander Affairs Inquiry into the Reeves Review of the Northern Territory Aboriginal Land Rights Act.

POLLACK, D, submission to the House of Representatives Standing Committee on Aboriginal and Torres Strait Islander Affairs Inquiry into the Reeves Review of the Northern Territory Aboriginal Land Rights Act.

SANDERS, Dr W, consultant: Department of Family and Community Services and Centrelink on unemployment breach rates; Department of Family and Community Services on Indigenous housing needs and regional resource allocation; Aboriginal and Torres Strait Islander Commission on participation in regional council elections.

SCHWAB, Dr J, consultant to: Office of Indigenous Affairs, Department of Prime Minister and Cabinet on Indigenous educational retention rates; education project evaluation for the United States Academy for Educational Development and the Egyptian Ministry of Education.

SMITH, D, longitudinal study of the effectiveness of income support payments for Indigenous children and their families and households for Department of Family and Community Services; presidential mediation consultant National Native Title Tribunal; mediation of Ngunawal regional agreement with the Australian Capital Territory Government.

TAYLOR, Dr J, consultant to: Fred Hollows Foundation on structural barriers to improved nutrition among Aboriginal people in the Katherine East region; Aboriginal and Torres Strait Islander Commission on participation in regional council elections; Rio Tinto on socioeconomic profile of the Aboriginal population in southeast Arnhem Land; submission to the House of Representatives Standing Committee on Aboriginal and Torres Strait Islander Affairs Inquiry into the Reeves Review of the Northern Territory Aboriginal Land Rights Act.

WESTBURY, N, consultant to: Fred Hollows Foundation on structural barriers to improved nutrition among Aboriginal people in the Katherine East region; Alice Springs Regional Office, Aboriginal and Torres Strait Islander

Commission and Centrelink on Indigenous banking in central Australia.

Asia Pacific School of Economics and Management

Australia Asia Management Centre

CHUA, M, presented seminar to Department of Transport and Regional Services on China's Economy and Politics.

BROGAN, B, collaborated with the Australian Department of Family and Community Services involving the Department of Health and Aged Care, Centrelink, the Health Insurance Commission, the National Audit Office, The House of Representatives and the Victorian Department of Human Services through Health Victoria; these involved workshops, seminars and field visits for the Chinese Government State Development Planning Commission, Ministry of Labour and Social Security, Ministry of Health and Ministry of Civil Affairs and the Mongolian Government Financial Reform Parliamentary Committee; conducted reviews and project design for AusAID involving the Chinese Ministry of Foreign Trade and Economic Cooperation and Ministry of Education, the PNG National Department of Education and National Forestry Service; the Indonesian Foreign Ministry; the ASEAN Secretariat and the World Bank.

DODGSON, Prof M, co-convenor in development and delivery of Master of Industry Strategy degree with the Department of Industry, Science and Resources; member, Learned Group advising the National Innovation Summit and producing the Framework Papers for the Summit; consultant to the National Science Council, Taiwan; Honorary Ambassador for the ACT.

RUSSELL, E, conducted a seminar for the AUSAID Capacity Building Program for senior Mongolian civil servants and Members of Parliament; conducted workshops for senior officials of the People's Republic of China Ministry of Labour and Social Security with the Australian Department of Family and Social Security for AUSAID; conducted a seminar on corporate strategy for graduates of the National Institute of Development Administration in Thailand.

Australia–Japan Research Centre

DRYSDALE, Prof P, member, Panel of International Advisers, Korea Institute for International Economic Policy, member, Advisory Board, Ritsumeikan University, Kyoto, member, Project Advisory Group New Institutionalism in Asia, Asia Center, Harvard University, member, International Advisory Board, Asia–Pacific Institute, Waseda University, member, Academic Advisory Board, Asia Pacific Center for Business and Economics, Brandeis University, member, Board of The Australian Proteome Analysis Facility, Macquarie University, member, International Advisory Board, China Center for Economic Research, Peking University, member, *TIME* magazine's Asia–Pacific Board of Economists, member, Board of the Sydney Institute, International Associate Member, Foundation for Advanced Information and Research (FAIR), Japan, member, Board of Advisers, Institute of Fiscal and Monetary Policy Research, Japanese Ministry of Finance, member, International Standing Committee of the Pacific Economic Cooperation Council, coordinator, International Secretariat, Pacific Trade and Development Conference, member, International Steering Committee, PAFTAD, member APEC Panel of Independent Experts

Development Studies, National Centre for

DUNCAN, Prof R, member, Aid Advisory Council, Australian Department of Foreign Affairs and Trade; member, UNESCO Social Sciences Network, Australian Department of Foreign Affairs and Trade; member, Australian Competition Tribunal, Australian Department of Treasury; member, International Economic Data Base, ANU.

GITAY, Dr H, chair and coordinator, Impacts and Adaptation Section, Australian Greenhouse Office; member, stakeholder consultation group on the Biosafety Protocol negotiations, Australian Department of Foreign Affairs and Trade; member, Steering Committee, Millennium Ecosystem Assessment, UNEP/World Bank/GAO/WRI

HESS, Dr M, member, Papua New Guinea Government Panel of Enquiry into Restructuring of the University of Papua New Guinea.

LEUNG, Dr S, member, ACTEW Board.

YOUNG, Dr E, chair, Antarctic Naming and Medals Committee, Department of Environment, Antarctic Division, ANARE, Environment Australia.

Cross-Cultural Research, Centre for

BENJAMIN, Dr R, president, Art Association of Australia and New Zealand; chair, Paul Cezanne 160th Birthday symposium, Art Gallery of NSW; assessor ARC grant applications

BOLTON, Dr L, adviser, Vanuatu Cultural Centre

BERMAN, Dr L, member, Third Australian-Pacific Triennial Steering Committee, Queensland Art Gallery; consultant, Indonesian Academy of Sciences.

CALLAWAY, Dr A, awarded J Paul Getty Fellowship; guest editor, *Australian Journal of Art*.

DENING, Prof G, keynote speaker, Internationalizing the Study of American History, New York University/Organization of American Historians, Florence, Italy; keynote speaker, UCLA Center for 17th and 18th Studies, Los Angeles, USA.

CHURCHER, B, judge, Olympic Arts-Sports contest for Sydney Organising Committee of the Olympic Games (SOCOG); judge, Olympic Arts Sports, International Olympic Committee (IOC); member, Australia-India Council; member, ACT Council for Centenary of Federation

EVES, Dr R, awarded Smuts Visiting Fellowship, University of Cambridge

KERR, Prof J, trustee, NSW Historic Houses Trust; judge, Competition for Australian Monument to the Great Irish Famine; appeared on ABC radio and television; curator, 'Artists and Cartoonists in Black and White (the Most Public Art)', National Trust S H Ervin Gallery; curator, 'Australians in Black and White (The Most Public Art)', State Library of NSW.

KLEINERT, Dr S, presented papers to Australian Institute of Aboriginal and Torres Strait Islander Studies seminar series; invited speaker, Tate Gallery, London; member, Editorial Board, *The Olive Pink Society Bulletin*; adviser, to National Portrait Gallery, Canberra, on travelling exhibition, 'Recognition: Percy Leasons's Aboriginal Portraits'.

McGRATH, Dr A, curatorial adviser to Powerhouse Museum, Sydney, on 'Births of a Nation: women'

Childbirth and Federation' travelling exhibition; presented paper to Berkshire Conference of Women Historians, Rochester, New York; convener, International 'Engendering Material Culture' conference, University of NSW; expert witness, 'Stolen Children', Litigation, Federal Court of Australia, Darwin; convener, Australian Women's History Network.

PAISLEY, Dr F, awarded ARC Fellowship; presented paper at The International Berkshire conference of Women Historians, Rochester, New York.

THOMAS, Prof N, guest curator, Djamu Gallery (Gallery of Australian Museum), Sydney; guest curator, National Gallery of Australia, for 'Oceania', an exhibition to open in 2001; curator, 'Cooks' Sites' Exhibition, Te Pape/National Museum of New Zealand; assessor, ARC grant applications.

TURNBULL, Dr P, presented papers to American Historian Association, Washington, USA; co-convener for Fourth World Archaeological Conference, Cape Town, South Africa; member, Executive Committee, H-Net, the International Network of the Humanities and Social Sciences; presented paper to Australian Historical Association annual conference; assessor, ARC grant applications.

Humanities Research Centre

CLARKE, Prof G, council member, The Australian Archaeology Institute at Athens; member, National Committee of Australian Foundation for Study in Italy; member, Advisory Board of Mediterranean Archaeology.

McCALMAN, Prof I, member, Organising Committee Third Asia-Pacific-Triennial Conference, Queensland Art Gallery; delivered keynote papers to conference at joint Huntington Library, and Cambridge University Press conference, Los Angeles, USA; member, International Advisory Board, Consortium of Humanities Centres and Institutes, USA; member, International Advisory Committee, Humanities Research Institute, University of California at Irvine, USA; member, Council, Australian Academy of the Humanities; member, Expert Advisory Committee, National Museum of Australia; member, selection panels/committees for National Library of Australia, National Museum of Australia, National Archives of Australia; president, Australasian and Pacific

Society of Eighteenth Century Studies; guest curator for opening exhibition 'The Gold Show' for National Museum of Australia; assessor, ARC grant applications.

GAMMAGE, Prof B, member, Advisory Board, War in History (UK & USA); treasurer, Manning Clarke House Inc.

Epidemiology and Population Health, National Centre for

ADAMS, Prof A, chair, Public Health Functions Technical Advisory Group National Public Health Partnership; chair, steering committee Expanding and Sustaining Immunisation Seminar; member, National Public Health Information Working Group; chair, Western Pacific Regional Certification Commission for the Eradication of Poliomyelitis, WHO, Manila; member, Global Certification Commission for the Eradication of Poliomyelitis, WHO, Geneva.

BAMMER, Dr G, member, Scientific Committee on Musculoskeletal Disorder, International Commission on Occupational Health; member, Governing Council, Mulanggarri Foundation, University of Canberra; member, New pharmacotherapies project advisory group, Turning Point Alcohol and Drug Centre Inc.; member, international scientific advisory panel, 9th and 10th International Conference for the Reduction of Drug Related Harm; member, organising committee, annual conference Australian Professional Society on Alcohol and Drugs, Canberra; member, Steering Committee for a UK heroin trial, Department of Social Science and Medicine, Imperial College School of Medicine, London; member Advisory Committee, National Hepatitis C Education and Prevention Strategy, Australian Intravenous League

BROOM, Dr D, member, chair, National Public Health Strategies Coordinating Committee; member, The Canberra Hospital Patient Care and Quality Improvement Committee; member, Monitoring Working Group, National Breast Cancer Centre.

BUTLER, Dr J, member, Early Detection and Diagnosis Working Group, NHMRC National Breast Cancer Centre; member, Central Coordinating Committee, DVA Preventive Care Trial; member, NHMRC Research Grants Interviewing Committee;

member, Consultative Committee on Diagnostic Imaging Research Program, Commonwealth Department of Health and Aged Care; member, Advisory Board, G.D. Searle & Co Global Health Outcomes Board.

CALDWELL, Prof J, member, International Advisory Board, International Encyclopedia of the Social and Behavioural Sciences.

DOUGLAS, Prof R, member, Advisory Committee, PHERP Quality Enhancement Program, Public Health Association of Australia; chair, Quality Enhancement Program Review Visit to Australian Centre for International Tropical Health and Nutrition, Queensland University; member, Board of Management, Cooperative Research Centre for Water Quality and Treatment, convener, National Conference, Australasian Epidemiological Association 2000; member, Clinical School Management Committee, University of Sydney, Canberra Clinical School; member, Medical Issues Committee, National Heart Foundation of Australia; member, Department of Health and Aged Care Influenza Pandemic Planning Committee; member, Education and Scientific Committee, ACT Division of General Practice.

D'SOUZA, Dr R, Secretariat, National Certification Committee for Poliomyelitis Eradication; principal investigator, Acute Flaccid Paralysis Study Group, secretariat, Polio Expert Committee

ECKERSLEY, R, member, Steering Committee of OzQoL (Australian Quality of Life Studies); member, Interim Reference Group, Health Inequalities Research Collaboration; member, Steering Committee, Indicators of Social and Family Functioning Project, Commonwealth Department of Health and Aged Care.

GARDNER, A, ACT Health and Community Care Human Research Ethics Committee

GUEST, Dr C, convener, Public Health Association Conference Committee; convener, Scientific Program Committee, XIX Pacific Science Congress, Sydney; president, Public Health Association, ACT Branch; member, National Health & Medical Research Council Working Party; member, National Health & Medical Research Council Working Party; member, council, Faculty of Public Health Medicine, Royal Australasian College of Physicians; council member, Public Health Association of Australia; member, Health Advisory

Committee Advisory Board; member, NHMRC Advisory Board; member, National Environment Protection Council, NHMRC Liaison Committee; member, Board of Policy and Management; member, National Research Centre for Environmental Toxicology

LIM, Dr L, chair, Medical Statistics Section, Statistical Society of Australia; member, Accreditation Committee, Statistical Society of Australia Inc

McDONALD, D, member, Board of Alcohol and Other Drugs Council of Australia; chair, National Research Reference Group, Alcohol and Other Drugs Council of Australia; research representative, ACT Association of Alcohol and Other Drug Agencies; member, Executive Committee, Australian Evaluation Society, ACT Region; member, Advisory Board, National Drug Research Strategy Committee

NANCARROW, S, chair, Footpath Steering Committee, ACT Community Care; member, Diabetes Data and Information Working Group, ACT Community Care; member, Organising Committee 2001, Australasian Podiatry Conference, Australian Podiatry Council; member, Podiatrists Board of the ACT; member, Steering Committee on Clinical Pathways, DVA; member, Care Continuum Steering Committee, ACT Community Care

PATEL, Dr M, chair, Global Network of Training Programs in Epidemiology and Public Health Interventions; member, Scientific Advisory Committee, National Centre for Immunisation Research and Surveillance of Vaccine Preventable Diseases; member, Measles Elimination Advisory Committee of the National Centre for Disease Control; chair, National Guidelines for the Prevention and Control of Outbreaks of Measles; member, Committee to Review National Guidelines for the Control of Meningococcal Disease, Communicable Diseases Network of Australia and New Zealand; member, Expert Panel to advise on 'Developing a Research Agenda for CDC's Epidemiology Program Office', Atlanta, Georgia, USA,

SIBTHORPE, Dr B, member, Advisory Board, Divisions Data Group, Department of Health and Aged Care, General Practice Branch

TAFT, A, national convener, Public Health Association of Australia's Women's Health Special Interest Group; member, Consumer's Health Forum.

WHITTAKER, Dr A, General councillor, Council of the Asian Studies Association of Australia.

Psychiatric Epidemiology Research Centre

BIRD, Dr M, member, Australian Psychological Society Clinical College, produced a report for the Commonwealth Office for the Older Australians on an intervention study with challenging behaviour in dementia.

CHRISTENSEN, Dr H, member, Scientific and Research Sub-Committee, Alzheimer's Association; member, Ethics committee, Australian Institute of Health and Welfare; member, Mental Health Reference Group, Healthpact, ACT; member working party, Australian Psychological Society Special Interest Group on Aging; Editorial review *Gerontology International Journal of Experimental and Clinical Gerontology*.

HENDERSON, Prof A S, clinical adviser in Mental Health, Commonwealth Department of Health and Aged Care; member, Committee of the Australasian Society for Psychiatric Research; editor, Australasia and the Far East, *Social Psychiatry & Psychiatric Epidemiology*; member, editorial boards for *International Journal of Methods in Psychiatric Research*; *Dementia*; *European Archives of Psychiatry and Clinical Neuroscience*; *New Trends in Experimental and Clinical Psychiatry*; *Australian and New Zealand Journal of Psychiatry*; member, boards of assessors, *Australian and New Zealand Journal of Psychiatry*; member, editorial review panel, *Australian Journal on Ageing*; member, Committee of International Consultants, *Epidemiologia e Psichiatria Sociale* (Rome), visiting specialist, The Canberra Hospital.

JORM, Prof A F, member, Departmental Ethics Committee, Commonwealth Department of Health & Aged Care; president, Australasian Society for Psychiatric Research; member, Scientific and Research Sub-Committee of the Alzheimer's Association; member, Medical and Scientific Advisory Panel, Alzheimer's Disease International; editor-in-chief, *Australasian Journal on Ageing*, member, Board of the Mental Health Council on Australia; member, Steering Committee for

Outcomes Cost-effectiveness and Other Indicators of Quality in Australian Mental Health Services Project, Commonwealth Department of Health and Aged Care; member, Drafting Group, Commonwealth Department of Health and Aged Care; member, Australian Rotary Health Research Fund, Mental Health Awareness Campaign Reference Group.

KORTEN, A E, member, Data and Publications Committee, National Survey of Mental Health & Well-being, Low Prevalence (Psychotic) Disorders Study, University of WA; member, Australasian Society for Psychiatric Research.

RODGERS, Dr B, manuscript reviewer, Australian Institute of Health and Welfare; briefing on family separation, Commonwealth Department of Prime Minister and Cabinet; Social and Family Functioning Indicators Workshop, Commonwealth Department of Family and Community Services.

Mathematical Sciences, School of

Mathematics Department

BRYCE, R A, member: Problems Committee, Australian Mathematics Competition; Problems Committee, Mathematics Challenge for Young Australians; Australian Mathematical Olympiad Committee; Australian Mathematics Trust, Advisory Committee; ACT Board of Senior Secondary Studies, ANU representative.

COSSEY, P J, assoc editor, *Bulletin of the Australian Mathematical Society*; member, Standing Committee on Education, Australian Mathematical Society; public officer, Australian Mathematical Society; public officer, AMPAI.

FERRARIO, L, member, Scientific Organising Committee, International Symposium "Magnetic Fields across the H-R Diagram", Santiago, Chile, 2001.

HOWE, A A T, treasurer, Australian Mathematical Society and AMPAI.

HUTCHINSON, J E, represented the National Committee for Mathematics at the FASTS (Federation of Australian Scientific and Technological Societies) Science Meets Parliament Day.

SMYTHE, N F, member, Apple University Development Fund Awards Panel.

WARD, M A, member, Problems Committee, Australian Mathematics Trust; Accreditation Committee, ACT Board of Senior Secondary Studies.

WICKRAMASINGHE, D T, member, Scientific Organising Committee, International Symposium "Magnetic Fields across the H-R Diagram", Santiago, Chile, 2001.

Mathematics and its Applications, Centre for

ANDREWS, B H, special session organiser, 43rd Annual Meeting, Australian Mathematical Society, University of Melbourne.

BAXTER, R J, member, editorial boards, *Journal of Geometric and Functional Analysis*; *Journal of Statistical Physics*; *Annals of Combinatorics and Theoretical Physics and Related Mathematics (International Press)*; member, advisory board, *Physica A*; member, editorial committee, *Philosophical Transactions of the Royal Society, Series A*.

DALEY, D J, adviser/consultant, ACT Board of Senior Secondary Studies; trustee, Applied Probability Trust, Sheffield, UK.

GANI, J M, member, selection committee for appointment of UTS Prof of Mathematics; member, Academy of Science Committee on scientific exchanges with China, Japan and Korea; member, AFAS Committee for Australian–French scientific exchanges; member, editorial boards, *Utilitas Mathematica*; *Journal of Mathematical Biology*; *IMA Journal of Mathematics Applied in Medicine and Biology* and *Journal of Applied Statistics, Stochastic Analysis and its Applications*; managing editor, *Applied Probability Journals*; reviewer, *Mathematical Reviews and Zentralblatt fur Mathematik*; member, Advisory Board, *Springer Series in Probability and its Applications*.

HALL, P G, member, editorial boards, *Annals of Statistics*; *Australian Journal of Statistics*; *Econometric Theory*; *Journal of Statistical Planning and Inference*; *Probability Theory and Related Fields*; *Statistica Sinica*; council, *Institute of Mathematical Statistics*; President-elect, Bernoulli Society.

HASSELL, A W, reviewer, *Mathematical Reviews*; tutor, at Mathematical Olympiad Training School, Sydney; mentor, two members of 1999 Australian International Mathematical Olympiad Team.

HEYDE, C C, director, Australian Foundation for Science; Centre for Applied Probability, Columbia University; board member, Australian Mathematics Trust; member, Membership Committee, International Statistical Institute; Bernoulli Society Publications Committee; Publications Committee, International Statistical Institute; Executive Committee, Graduate School of Arts and Sciences; chair, History Committee, International Statistical Institute; trustee, Applied Probability Trust; Development Review Committee, Faculty of Mathematical and Computer Sciences, University of Technology, Sydney; Editor-in-Chief, *Journal of Applied Probability*, *Advances in Applied Probability*; joint-editor, *Australian Mathematical Society Lecture Series*; *Springer Series in Probability and its Applications*; associate editor, *The Mathematical Scientist*; advisory editor, *Journal of Applied Mathematics and Stochastic Analysis*; reviewer, National Science Foundation, National Research Council of Canada, Australian Research Council.

HUTCHINSON, J E, representative from the National Committee for Mathematics at the FASTS (Federation of Australian Scientific and Technological Societies) Science Meets Parliament Day.

KOVACS, L G, member, editorial boards, *Journal of Group Theory* and *Periodica Mathematica Hungarica*.

McINTOSH, A G R, member, editorial committee, *Bulletin of the Australian Mathematical Society*; scientific advisory committee, Conference on Clifford Analysis, Prague, 2000; scientific committee, International Conference on Clifford Analysis, Its Applications and Related Topics, to honour the memory of L K Hua at the occasion of his 90th birthday.

NEUMANN, B H, editor and publisher, IMU Canberra Circular; honorary editor, *Bulletin of the Australian Mathematical Society*; *The Australasian Journal of Combinatorics*; *Algebra Colloquium (Beijing)*; editor and member of editorial board, *Houston Journal of Mathematics*; editorial consultant, *Southeast Asia Bulletin of Mathematics*; *Mathematical Spectrum*.

NEWMAN, M F, public officer, Australian Mathematical Publishing Association Inc.; editorial adviser, *Journal of Symbolic Computation*; member, editorial board, *International*

Journal of Algebra and Computation; member, coordinating committee, *International Mathematical Sciences Institutes*; member, *Australian Mathematical Olympiad Committee*; member, problems committee, *Mathematics Challenge for Young Australians*.

OSBORNE, M R, director, CTAC99; chair, ANZIAM Computational Mathematics Groups 1999–2001; associate editor, *Journal of the Australian Mathematical Society, Series B*.

ROBINSON, D W, member, Research Training and Careers Committee, Australian Research Council; Steering Committee, Council of the Australian Mathematical Society; chair, Australian Academy of Science's National Committee for Mathematics.

TRAN, T, referee, *Journal of the Australian Mathematical Society, Series B*.

N S Trudinger, editorial boards, *Advances in Mathematical Sciences and Applications*; *Bulletin of the Australian Mathematical Society*; *Calculus of Variations and Partial Differential Equations*; *Journal of Mathematical Analysis and Applications*; *Journal of Potential Analysis*; *Nonlinear Analysis Forum*; *Proceedings of Edinburgh Royal Society*; *Taiwan Journal of Mathematics*; symposium organiser, Equadiff 99; principal organiser, Isaac Newton Institute Programme on Nonlinear Partial Differential Equations, 2001.

WELSH, A H, editorial boards, *The Annals of Statistics*; *The Australian and New Zealand Journal of Statistics*; member, Methodology Advisory Committee (MAC) at ABS; convener, Program Committee for Biometrics99.

WILSON, S R, president, International Biometric Society; representative, Statistical Society of Australia at Australian Foundation for Science Meetings; elected to Advisers' Committee; member, Technology Committee, International Biometric Society; Committee on Women in Statistics, International Statistical Institute; ISI Standing Committee for the promotion of statistics in the Life Sciences; *Bernoulli News*; editor search committee; editorial board, *Statistical Methods in Medical Research*; associate editor, *Annals of Human Genetics*; member, editorial advisory board, *Biometric Monograph Series of the International Biometric Society*; member, editorial committee for the sixth edition of the *ISI Dictionary of Statistical Terms*; member,

selection committees for University of Tasmania Chair in Mathematics (Applied Mathematics) and University of New South Wales Chair of Mathematics of Finance; assessor, Medical and Scientific Research Grant Applications, Anti-Cancer Council of Victoria.

Graduate School, The

BALLARD, J, member, Advisory Committee, HIV and Development Network.

CUNNINGHAM, R B, (collaborator: Birds Australia), chair, Statistics Committee, The New Bird Atlas Project.

MAINDONALD, J H, (with L Brans, University of Canberra), NHSC Distance Education Graduate Nursing courses.

University Library

STEELE, C, member, Coalition for Innovation in Scholarly Communication; DETYA Research Infrastructure Funding Committee.

Pacific and Asian Studies, Research School of**Director's Section***North Australia Research Unit*

DAVIS, R, advisory board member, Cooperative Research Centre (CRC) for the Sustainable Development for Tropical Savannas, Scientific Program and Evaluation; observer, Kimberley Aboriginal Pastoralists Associations (KAPA); commentator, Australian Broadcasting Commission (ABC).

FLETCHER, Dr C, referee, Australian Research Council (ARC); member, Institute of Aboriginal and Torres Strait Islander Studies (AITSIS); adviser, Ngaanyatjara Council, Warburton, Western Australia; adviser, Northern Territory Department of Asian Relations and Trade, Darwin, commentator, Australian Broadcasting Commission (ABC); board member, Australia-Indonesia Institute; board member, International Association of Centers for Federal Studies; board member, Centre for Indigenous Natural and Cultural Resource Management, Northern Territory University; board member, Centre for Social Research, Northern Territory University; consultant, Northern Territory Government; research associate, South Australian Centre for Economic Studies, University of Adelaide; executive committee member, Constitutional Centenary Foundation, Northern Territory; honorary associate of the University of New England (for PhD supervision).

KANNAPIRAN, Dr C A, commentator, Australian Broadcasting Commission.

McWILLIAM, Dr A, member, AusAID Technical Advisory Group, Water Supply Sector, Indonesia; adviser, Aboriginal Areas Protection Authority, Darwin.

Pacific Manuscripts Bureau

MAIDMENT, E, editor, 'International Notes', *Archives and Manuscripts*; representative, Australian Society of Archivists; member, Executive Committee, Canberra Regional Branch of the Australian Society for the Study of Labour History.

Strategic and Defence Studies Centre

BALL, Prof D, member, International Institute for Strategic Studies Council, London; member,

Advisory Board, Deakin University; member, Advisory Council, Asian Strategy and Leadership Institute, Malaysia.

DIBB, Prof P, member, Foreign Affairs Council; member, Board of Research Consultants, Institute for Foreign Policy Analysis, Inc, Cambridge, lecturer (with Dr Woodman), Australian Defence College.

DUPONT, A, academic adviser, Australian Capital Territory Accreditation Council; commentator, *The Australian*, *The Australian Financial Review*, *The Age*, *The Sydney Morning Herald*, *The Bulletin*, *The Economist*, *The Guardian*, *The International Herald Tribune*, *The Straits Times*, *The Jakarta Post*, *The Bangkok Post*, *The South China Morning Post*, *The Sankei Shimbun*, the Australian Broadcasting Commission (ABC), SBS, BBC, US Public Affairs Radio, Radio Singapore International, and Radio China International.

HORNER, Prof D M, chair, Armed Forces Working Party, Australian Dictionary of Biography; member, Editorial Board, Australian Dictionary of Biography; member, Joint Services Staff Board, Academic Advisory Board; member, Australian Army Military History Projects Committee; head, Australian Army's Land Warfare Studies Centre.

WOODMAN, Dr S, lecturer, Australian Defence College.

Economics, Division of

ATHUKORALA, Dr P-C, reviewer, Australian Research Council Large Research Grants Scheme; adviser/consultant, Asia Recovery Information Centre, Asian Development Bank; reviewer, Oxford University Press; reviewer, Routledge London; reviewer, *Journal of Development Studies*; reviewer, *World Economy*; reviewer, *Economic Journal*; reviewer, *Journal of the Asian Pacific Economy*.

DRYSDALE, Prof P, adviser, Department of Foreign Affairs and Trade; assessor, ARC/DETYA Large Research Grants Scheme; international associate member, Foundation for Advanced Information and Research (FAIR), Japan; member, Academic Advisory Board, Asia Pacific Center for Business and Economics, Brandeis University; member, Advisory Board, Ritsumeikan University, Kyoto; member, Board of the Sydney Institute; member, Committee of Examination of developments in

contemporary Japan and implications for Australia; member, Editorial Advisory Board, *Economics Today*; member, Editorial Advisory Board, *Tokyo Japan*; member, Editorial Advisory Board, *Journal of Economic Studies* (Strathclyde, UK); member, Editorial Advisory Board, *Journal of Asian Pacific Economic Literature* (ANU, Canberra); member, Editorial Advisory Board, *Japanese Studies* (University of Western Sydney); member, Editorial Advisory Board, *Pacific Review* (Routledge); member, Editorial Advisory Board, London, UK); member, Editorial Advisory Board, *Pacific Economic Papers* (ANU, Canberra); member, International Advisory Board, Asia-Pacific Institute, Waseda University; member, International Standing Committee, Pacific Economic Cooperation Council, International Steering Committee, PAFTAD, member, Panel of International Advisers, Korea Institute for International Economic Policy; member, Professional Associations: Economic Society of Australia and New Zealand, Royal Economic Society, United States Academy of Political Science, Japan Economic Association (East Coast), United States Japanese Studies Association of Australia, Asian Studies Association of Australia, Korean Studies Association of Australia; member, Project Advisory Group, New Institutionalism in Asia, Asia Center, Harvard University; member, Project Advisory Group, New Institutionalism in Asia, Asia Center, Harvard University; member, *TIME* Magazine's Asia-Pacific Board of Economists; witness, Foreign Affairs, Defence and Trade References.

DUNCAN, Prof R, member, Aid Advisory Council; member, UNESCO Social Sciences Network; member, Australian Competition Tribunal; member, Resource Management in Asia and the Pacific Project; convener, State, Society and Governance in Melanesia Project; consultant, Australian Department of Employment, Workplace Relations and Small Business Innovative; consultant, AusAID; consultant, ESCAP, Bangkok.

FANE Dr G, referee, Australian Research Council.

GARNAUT, Prof R, chair, PNG Advisory Group: Privatisation Program; chair, Australian Centre for International Agricultural Research; chair, Asia Pacific Economics Group Pty Ltd; chair, Asia Society, New York; member, Asia Society AustralAsia Centre, Melbourne; member, Minister

for Foreign Affairs Advisory Council; member, Advisory Board, China Centre for Economic Research, Beijing; member, Centre for Strategic and International Studies, Indonesia; member, Review Board, Public Policy Research Grants Program, Beijing; consultant, International Finance Corporation (IFC); consultant, Austraining Pty Ltd; consultant, Australian Agency for International Development.

HILL, Prof H, examiner, University of New England; examiner, La Trobe University; referee, *Journal of Asian Business*; referee, *Environment and Planning*; referee, *Transnational Corporations*; referee, *Southeast Asian Research*; referee, *World Economy*; referee, *World Development*; referee, *Asian-Pacific Economic Literature*; referee, *Journal of Development Studies*; referee, *Bulletin of Indonesian Economic Studies*; referee, *Pacific Economic Papers*; referee, Cambridge University Press (New York); referee, Institute of Southeast Asian Studies (Singapore); member, Editorial Board, *Asian-Pacific Economic Literature* (ANU); member, Editorial Board, *World Development* (Pergamon); member, Editorial Board, *Journal of Asian Business* (Michigan); member, Editorial Board, *Oxford Development Studies* (Oxford); member, Editorial Board, *Journal of Asia-Pacific Economy* (Routledge); member, Editorial Board, *Asian Journal of Agricultural Economics* (Manila/Seoul); member, Editorial Board, *Monash Mt Eliza Business Review* (Melbourne); member, Editorial Board, *ASEAN Economic Bulletin* (Singapore); member, Editorial Board, *Bulletin of Indonesian Economic Studies* (ANU); member, Editorial Board, Cambridge University Press; member, Editorial Board, *Asia-Pacific Monographs series*; member, Research Advisory Group, International Centre for the Study of East Asian Development, Kitakyushu, Japan; member, Research Advisory Group, East Asian Economic Association, Japan; adviser, AusAID, Canberra.

KALIRAJAN, Dr K, consultant Australian Taxation Office; referee, Australian Research Council.

MANNING, Dr C, member, Editorial Board, *Bulletin of Indonesian Economic Studies*; member, Editorial Board, *Labour and Management in Development Journal*; consultant, International Labour Organisation; expert advice, AusAID; participant,

Roundtable with Indonesia's Minister for Cooperatives and Small Business, Dr Adi Sasono, Department of Foreign Affairs and Trade, Canberra.

McKIBBON, Prof W, consultant, Australian Treasury; consultant, Australian Department of Foreign Affairs and Trade; consultant, Australian Department of Environment; consultant, Australian Greenhouse Office; consultant, Schroders Australia; consultant, Tactical Global Management; consultant, Citicorp New York; consultant, Department of Environment (New Zealand); consultant, Environmental Protection Agency, US Congressional Budget Office; consultant, Japanese MITI; consultant, Canada Department of Finance; consultant, United Nations; consultant, World Bank; consultant, Intergovernmental Panel on Climate Change; board member, Economic Society of Australia, Canberra Branch; editorial board member, *Economic Modeling*, published by Elsevier Science, London; editorial board member, *Asia-Pacific Economic Review*, published by Cambridge University Press, London; editorial board member, *Open Economics Review*, published by Kluwer Academic Publishers, The Netherlands; Fellow, Australian Academy of Social Sciences.

McLEOD, Dr R, editor, *Bulletin of Indonesian Economic Studies*; expert witness, Inquiry into the Financial Market Effects on Government Policy; participant, Roundtable with Indonesian Economist, Dr Sri Mulyani, at Department of Foreign Affairs and Trade, Canberra.

MENG, Dr X, consultant, Brookings Institute; consultant, World Bank; consultant, DEWRSB; consultant, ACIL Australia Pty Ltd.

SHAND, Dr R, member, International Association of Agricultural Economists; member, Australian Association of Agricultural and Resource Economics; advisory board member, *Canadian Journal of Development Studies*; advisory board member, *Development and Change*; referee, Australian Research Council Large Grants Scheme; consultant, Employment Generation in Indonesia, International Labour Organisation, Geneva/Jakarta; council member, Grant Allocation/Australia-India Council, DFAT.

SMITH, Dr H, consultant, Department of Foreign Affairs and Trade; specialist adviser, Australian Defence College.

WARR, Prof P, member, editorial board, *Agricultural Economics*; member, editorial board, *Journal of the International Association of Agricultural Economists*; board member, Australian Agricultural and Resource Economics Society, Canberra Branch; adviser, East Asia Analytical Unit, DFAT; adviser, Australian Council for Security Co-operation in the Asia Pacific; consultant, AusAID.

WOLFF, Dr L, expert witness, Senate Foreign Affairs, Defence and Trade References Committee.

Pacific and Asian History, Division of

BALLARD, Dr C, , invited member, Independent Human Rights Fact-Finding Mission to the PT Freeport Indonesia Contract of Work Area, the Indonesian National Commission for Human Rights (Jakarta), Indonesian Legal Aid Foundation (Jakarta), R F Kennedy Memorial Center for Human Rights (Washington DC), Office of Justice and Peace of the Catholic Diocese of Jayapura (Jayapura) and the Institute for Human Rights Studies and Advocacy (Jayapura); member, Research Committee, 'The Snow Mountains of West New Guinea' Exhibition, Tropenmuseum (Amsterdam) and Tropen Instituut (Amsterdam); member, Research Committee, Viewpoint Productions Pty Ltd (Amsterdam); member, Research Committee, and the Royal Geographical Society (London); collaborator, documentary film project, 'Freeport, the Amungme, and the Mountains', Viewpoint Productions Pty Ltd (Amsterdam) and Dutch national television; co-editor, *Irian, Bulletin of Irian Jaya Development*.

BARMÉ, Dr G, referee, two Australian Research Council Large Grants applications; member, Editorial Board, *Renditions*; member, Editorial Board, *Chinese Perspectives*; expert advice, *The New York Times*, *The Sydney Morning Herald*.

DENOON, Prof D, member, Editorial Board, *Cambridge Asia Pacific Series*; member, Editorial Board, *Department of Foreign Affairs Documentary Publications*.

DOUGLAS, Dr B, adviser, PNG Branch, Melanesian Women and Strategies for Self-Empowerment; adviser, Child Abuse Feasibility Study/Project Identification Mission in the Pacific, Pacific Branch.

ELVIN, Prof J M D, referee, grant application, Chiang Ching-Kuo Foundation, Taiwan; member, Editorial Board, *Environment and History*; member, Editorial Board, *China Reviews International*; , policy adviser, Independent Scholars' Association of Australia.

JACKSON, Dr P, adviser, DFAT diplomatic corps traineeship workshop; member, Editorial Panel, *Critical InQueeries*.

LAL, Dr B V, corresponding editor, *The Contemporary Pacific: A Journal of Island Affairs*; member, Editorial Board, *Pacifika Library*.

MARR, Dr D, corresponding member, Editorial Advisory Board, *Modern Asian Studies*.

MCCORMACK, Prof G, referee, two Australian Research Council grant applications; member, Editorial Board, *New Zealand Journal of Asian Studies*; member, Editorial Board, *Japanese Studies*; expert advice, the Senate Foreign Affairs Defence and Trade Committee, and the Australian College of Defence and Security Studies (ACDSS).

MORRIS-SUZUKI, Prof T, vice president, Asian Studies Association of Australia; member, Steering Committee, Foreign Affairs Council; member, Steering Committee, Centre for Pacific Asia Social Transformations, member, Steering Committee, University of Wollongong; member, Steering Committee, University of Newcastle; member, Advisory Committee, Research Centre for Intercommunal Studies, University of Western Sydney; referee, large and small Australian Research Council grant applications; member, Editorial Board, *Positions: East Asia Cultures Critique*; general editor, *ASAA East Asian Monograph Series*; member, Editorial Board, *Asia-Pacific Studies Series*; member, Editorial Board, Cambridge University Press; member, Editorial Board, *Asian Studies Review*; member, Editorial Board, *Humanities Review*; member, Editorial Board, *Traces*; expert advice, the Senate Foreign Affairs Defence and Trade Committee.

NELSON, Prof H, referee, large and small Australian Research Council grant applications; referee, Department of Army; expert advice, Department of Veterans' Affairs.

REID, Prof A, referee, two Australian Research Council grant applications; corresponding member, *Journal of Southeast Asian Studies*, Singapore; corresponding member, *Modern Asian*

Studies, Cambridge; member, Editorial Board, *Asian Studies* (Korea); corresponding editor, *Yale University Monographs on Southeast Asian Studies*; adviser, *Encyclopedia of Historians and Historical Writing*; chair of general editors, *A Modern Economic History of Southeast Asia*; editor, Data Paper Series *ECHOSEA*; member, International Advisory Board, *Royal Asiatic Society*, Malaysian Branch; member, Editorial Board, *Asian Studies Review*; member, Advisory Board, *Journal of the South Seas Society* (Singapore).

Politics and International Relations, Division of

International Relations, Department of

ELLIOTT, Dr L, senior vice president, Executive Council, ACT Branch, Australian Institute of International Affairs; member, Editorial Committee, Australian Political Studies Association Annual Conference; member, Australian National Committee, International Human Dimensions Program; member, Australian Member Committee, Council on Security Cooperation Asia Pacific; referee, Humanities and Social Science Panel, Monash University Logan Research Fellowship; manuscript referee, *Pacific Review*; manuscript referee, *Environmental Politics*; manuscript referee, *Journal of International Relations and Development*; member, Selection Jury, the Canada-Asia-Pacific Award in Canadian Studies.

NOBLE, DR G, adviser, Australian Parliament National Internship student; adviser, University of Sydney Honours student; guest lecturer, Australian Defence College; adviser, Department of Foreign Affairs and Trade.

RAVENHILL, Dr J, chair, Research Committee, the Australian Institute of International Affairs; assessor, two Australian Research Council Large Grants applications and special research centres applications; assessor, Economic and Social Research Council (UK); editor, *Studies in World Affairs Book series* (Allen and Unwin); editor, *Cambridge Asia-Pacific Studies Books series* (Cambridge University Press); member, editorial advisory board, *Studies in Comparative Political Economy and Public Policy Book series* (University of Toronto Press); member, editorial advisory board, *Asian Survey* (University of California Press); member, editorial board, *Journal of*

European Integration; member, editorial advisory board, *Global Economy*; member, editorial advisory board, *Industry and Innovation*.

ZHANG, Dr Y, guest lecturer, Department of Transport and Regional Services, New Zealand; PhD supervisor, University of Auckland.

Political and Social Change, Department of

BARLOW, Dr C, member, Research Program Advisory Committee, Palm Oil Research Institute of Malaysia.

CROUCH, Dr H, referee, Australian Research Council; expert advice, Australian Labor Party Parliamentary Caucus Committee; adviser, Australian Defence College; adviser, Australia-Indonesia Business Forum (Melbourne), expert witness, Attorney-General's Department; expert witness, United States Government (USAID, Jakarta), expert witness, United Nations High Commission on Refugees; member, United States of America's Carter Center's International Observer Mission for the Indonesian election; examiner, PhD thesis, Monash University.

DINNEN, Dr S, member, Law and Justice Sectoral Working Group, Papua New Guinea Government.

KERKVLIIET, Prof B, staff development assistance (with Dr D Marr [RSPAS] and colleagues in Hanoi), Vietnam National University; assessor, PhD dissertation, Vietnam National University; examiner, PhD theses, University of Melbourne; organiser, financial assistance, Vietnam National University; guest lecturer, Canberra Grammar School; member, international advisory board, Institute for Popular Democracy, Quezon City, the Philippines; member, Editorial Board, *SOJOURN*; member, Editorial Board, *Journal of Southeast Asian Studies* (Singapore); member, Editorial Board, *Southeast Asia Research* (London); member, Editorial Board, *Pilipinas: Journal of Philippine Studies* (Tempe, Arizona); member, Editorial Board, *Bulletin of Concerned Asian Scholars* (Boulder, Colorado); member, Editorial Board, *Philippines Political Science Review* (Quezon City, Philippines); referee, five Australian Research Council applications; manuscript referee, Routledge Press; manuscript referee, Yale University Press; manuscript referee, University of California Press; manuscript referee, Westview Press; manuscript referee, Institute for Southeast

Asian Studies Press; manuscript referee, *Development and Change*; manuscript referee, *Journal of Peasant Studies*.

MAY, Dr R J, consultant, Oxford Analytica (UK); member, interim executive committee, Forum of Democratic Leaders in the Asia-Pacific Region (Australian Chapter); contributor, *aseanfocus*, a monthly newsletter on ASEAN countries; series editor, *Regime Change and regime Maintenance in Asia and the Pacific* (RCRMAP) Crawford House Press/ University of Hawaii Press/ Christopher Hurst; series editor, *RCRMAP Discussion Papers*; member, editorial board, *Cambridge Asia-Pacific Studies* (Cambridge University Press); member, editorial board, *Pacific Islands Encyclopaedia* (Canterbury University Press); member, editorial board, *TaimLain: Journal of Contemporary Melanesian Studies*; member, editorial board, *Australian Journal of International Affairs*; member, editorial board, *Journal, Institute of Muslim Minority Affairs; Asian Ethnicity*; member, editorial board, *Theoretical Perspective* (University of Dhaka); manuscripts referee, Routledge; manuscripts referee, Cambridge University Press; manuscripts referee, Crawford House Press; manuscripts referee, *Pacific Studies*; manuscripts referee, *Pacifica Review*; consultant, Organization for Economic Cooperation and Development (OECD)/NARU; expert advice, Refugee Review Tribunal, Sydney; examiner, PhD thesis, University of Wollongong; co-organiser, Centre for Southeast Asian Studies workshop, Northern Territory University.

O'COLLINS, Prof M, member, Advisory Committee, Australian Catholic University School of Social Work; member, International Relations Committee, Australian Association of Social Workers (AASW); adviser, Bougainville Peace Process, Parliament of Australia Joint Standing Committee on Foreign Affairs, Defence and Trade; adviser, Manus (PNG) Provincial Administration on Australian Tertiary Scholarships; adviser, Linked Film Australia.

REGAN, A J, adviser, Foreign Affairs Subcommittee of the Joint Standing Committee on Foreign Affairs, Defence and Trade (Australian Parliament) Inquiry into the Bougainville Peace Process; constitutional adviser, Bougainville

Provincial Administration; adviser, Bougainville People's Congress; adviser, Department of Foreign Affairs and Trade; adviser, AusAID.

Northeast Asia Program

HARRIS, Prof S, member, Foreign Affairs Council; member, Council for Security Cooperation in Asia Pacific (CSCAP); co-chair, Australian National CSCAP committee; adviser, Japan Centre for International Exchange; member, International Advisory Board, Asian Affairs; chair, review committee on Australian Greenhouse Challenge, Australian Greenhouse Office; referee, Australian Research Council/Department of Education Training and Youth Affairs research grants.

Society and Environment, Division of

Anthropology, Department of

HARPLE, T, cultural expert, Universitas Cenderawasih, Jayapura, Irian Jaya, Indonesia; cultural expert, the Rijksmuseum voor Volkenkunde, Leiden, The Netherlands.

HIDE, Dr R, consultant, New Guinea Coffee Research Institute, Papua New Guinea Coffee Industry Corporation, Aiyura, Eastern Highlands Province, Papua New Guinea; member, Editorial Board, *Journal of Linguistic Anthropology*

KIPNIS, Dr A, reviewer, Duke University Press; reviewer, Princeton University Press. (Dr Kipnis is also a member of the Contemporary China Centre)

ROBINSON, Dr K, reviewer, ASAA publication series; reviewer, *Australian Feminist Studies*; reviewer, *The Australian Journal of Anthropology*; reviewer, *Sojourn*; reviewer, *International Feminist Journal of Politics*.

ROSE, Dr D, leader, Cooperative Research Centre for the Sustainable Development of Tropical Savannas; member, international advisory board, *Journal of Australian Studies*; editorial board, *Aboriginal History*.

RUMSEY, Dr A, consultant, Kimberley Land Council, Western Australia; consultant, Kamali Land Council, Western Australia.

SAKAI, M, research adviser, Yayasan Madani Foundation; research adviser, Ford Foundation, Palembang, Indonesia.

WEINER, Dr J, consultant, Indigenous Land Corporation, Gurang Land Council, National Native Title Tribunal, Department of Premier and Cabinet, Queensland State Government.

Archaeology and Natural History, Department of

HOPE, Prof G, member, Advisory Board, High Mountains Project, Public Broadcasting, Boston, USA; member, Coordinating Committee, BIOME 6000, a PAGES global vegetation mapping project led by Prof C Prentice and Prof S Harrison, Geochemistry Institute, Jena, Germany; adviser, New South Wales National Parks and Wildlife; adviser, Sydney Water; adviser, ACT Parks and Conservation branch.

JONES, Prof R, advisory editor, *Antiquity*, Cambridge UK.

Human Geography, Department of

ALLEN, Dr B, consultant, United Nations Food and Agriculture Organisation; expert/consultant, Australian Agency for International Development, Australian Centre for International Agricultural Research; expert, Papua New Guinea National Agricultural Research Institute; reviewer, Australian Research Council; examiner, PhD theses, La Trobe University; examiner, PhD theses, University of Queensland.

BEAZLEY, H, consultant, AusAID.

BOURKE, Dr R M, consultant/adviser, AusAID; member, commercial partner steering committee, Australian Contribution to the (Papua New Guinea) National Agricultural Research System (ACNARS); consultant, Vanuatu Land Use Planning Project; consultant, Food and Agriculture Organisation (FAO), Rome; member, Editorial Board, *Papua New Guinea Journal of Agriculture*; member, Editorial Board, *Forestry and Fisheries*; member, Editorial Board, *Harvest* (Papua New Guinea Agricultural Extension Journal); committee member, Australian Institute of Agricultural Science and Technology.

GIBSON, Dr K, member, Editorial Board, *Environment and Planning D: Society and Space*; member, Editorial Advisory Board, *New Zealand Geographer*; team leader, ARC-SPIRT grant, La Trobe Shire Council, Victoria; assessor, Australian Research Council Large Grants.

JARVIS, S, consultant, Mitsubishi Research Institute, Tokyo.

OLIPHANT, S, consultant, AusAID.

PRETES, M, consultant, Village Enterprise Fund (NGO) USA; member, Editorial Board, *The Northern Review*.

RIMMER, Prof P, member, Board of Senior Secondary Studies (Geography and Asian Studies) Panel, ACT Government; member, Board of the Australian Centre for Maritime Studies Incorporated; presenter, Royal Australian Navy's Maritime Studies Program; member, Editorial Board, *Asian Geographer*; member, Editorial Board, *Journal of Transport Geography*; member, Editorial Board, *Asia-Pacific Transport Journal*; member, Editorial Board, *Asia Pacific Viewpoint*; international adviser, *Malaysian Journal of Tropical Geography*; referee, large grants, University Grants Commission, Hong Kong.

Linguistics, Department of

PAWLEY, Prof A, adviser, Summer Institute of Linguistics; adviser/consultant, Oxford English Dictionary (Pacific region), *Terra Lingua*; director, Kalam Ethnobiology Project, Papua New Guinea, funded by AMRAD Technologies Ltd (Melbourne); member, Editorial Board, *Language Sciences*; member, Editorial Board, *Language and Linguistics in Melanesia*; member, Editorial Board, *Oceanic Linguistics*; member, Editorial Board, *Pacific Linguistics*; member, Editorial Board, *Typological Studies in Language*; referee, grant applications, Marsden Fund (NZ); referee, grant applications, National Institute for Mental Health(USA); referee, grant applications, Australian Research Council.

ROSS, Dr M, adviser, Summer Institute of Linguistics; associate editor, *Oceanic Linguistics*; member, Editorial Board, *Asian Linguistics*, Curzon Press; member, Advisory Board, *Lincom Europa*, Munich.

TRYON, Dr D, member, Editorial Board, *New Pacific Review/Nouvelle Revue du Pacifique*; reviewer/assessor, Marsden Fund (NZ); reviewer/assessor, Australian Research Council; member, Council, Université Française du Pacifique, Department of Foreign Affairs and Trade Pacific Islands Senior Visiting Fellowship Program.

Contemporary China Centre

KIPNIS, Dr A, reviewer, Duke University Press; reviewer, Princeton University Press. (Dr Kipnis

is also a member of the Department of Anthropology)

UNGER, Dr J, member, Editorial Board, *Chinese Sociology and Anthropology* (USA); member, Editorial Board, *China Information* (Holland); member, Editorial Board, *Bulletin of Concerned Asian Scholars* (USA); member, Editorial Board, *China Perspectives [Perspectives Chinoises]* (Hong Kong); member, Editorial Board, *Kaifang Shidai* (Guangzhou); member, Editorial Board, *Contemporary China Papers* book series of M E Sharpe Publishers; member, Editorial Board, Oxford University Press; member, Editorial Board, *Studies in Contemporary China* book series; member, Publications Committee, Contemporary China Institute, University of London; member, International Board of Directors, Universities Service Centre, Chinese University of Hong Kong; Research Fellow, Asia Research Centre, Murdoch University, Perth.

Gender Relations Project

JOLLY, Prof M, assessor/referee, Australian Research Council; assessor/referee, Marsden Fund; assessor/referee, James Cook Fellowships; assessor/referee, Royal Society of New Zealand; assessor/referee, Wenner-Gren Foundation for Anthropological Research; external assessor, University of Hawai'i at Manoa, tenure and promotion reviews.

LAW, Dr L, referee, Australian Research Council, Large Grants Scheme.

Transformation of Communist Systems

CHAN, Dr A, editor, *Chinese Sociology and Anthropology*; member, Advisory Board, City University of Hong Kong; member, Editorial Board, *China Perspectives [Perspectives Chinoises]* (Hong Kong); president, Australian Association for Communist and Post-Communist Studies; special referee, Hong Kong University of Polytechnic Grants Committee, Hong Kong Research Grants Council.

RIGBY, Prof T H, member, Editorial Board, *Revolutionary Russia, Australian Slavonic and East European Studies*.

Law Faculty

BAILEY, P H, contributor to broadcast program on problems in administering the Official Secrets provisions of the Crimes Act (Cth), Law Report Program; address to Australian U3A seminar on Harm Minimisation and Family; address to annual seminar, "Implementing Human Rights in Australia" organised by Centre for Encouragement of Democratic Institutions and Indonesia-Australia Society, Jakarta, April; continuing board member and chair, policy committee, Relationships Australia, Canberra and Region (RACR); president, International Commission of Jurists; address on the role of discrimination law to final year students, Canberra Grammar School.

BAYNE, P, senior member, Administrative Appeals Tribunal of the Commonwealth; chair, Fulbright ACT State selection committee; section editor, *Australian Journal of Administrative Law*; external referee, Australian Research Council; consultant, Attorney-General's Department of the Commonwealth; legal adviser, Scrutiny of Bills Committee of the Legislative Assembly of the ACT.

BOTTOMLEY, Prof S C, submission to joint committee on public accounts and audit, Inquiry into Corporate Governance and Accountability Arrangements for Commonwealth Government Business Enterprises; member, Canberra regional committee, Business Law Section, Law Council of Australia; member editorial committee, *Australian Journal of Corporate Law*; co-editor special issue, *Federal Law Review* volume 27; assessor, large research grants, Australian Research Council (ARC) applications, (ARC) Spirt grant applications; instructor, company directors' course, Australian Institute of Company Directors (Canberra); director, The Credit Union of Canberra Ltd.

BRUCE, A D P, contributing author, CCH Australian Trade Practices Report, commentary and case law analysis; solicitor, Australian Competition and Consumer Commission (ACCC), advice including submission to Australian Law Reform Commission on behalf of (ACCC).

CAMPBELL, Prof T D, president, Australian Society for Legal Philosophy; member executive committee, International Association for Philosophy of Law and Social Philosophy, attending meetings and giving advice;

publications committee, International Association for Philosophy of Law and Social Philosophy; editor, *Australian Journal of Legal Philosophy*; editor, *Applied Legal Philosophy Series*, commissioning books and advising publisher, refereed research grants, Australian Research Council (ARC) grants.

CHARLESWORTH, Prof H, Senior Fellow at and co-taught a graduate course in International Human Rights Law, Law School, University of Melbourne; member, promotions committee, University of Sydney Law School; member, chair selection committee, University of Canberra Law School; member, advisory board, Diplomacy Training Program, University New South Wales Law School; seminar presenter, Research Workshop, Law Faculty, University of Technology, Sydney; Frances Lewis Scholar in residence (January-May) at the Law School, Washington & Lee University, Lexington, Virginia, as scholar in residence, taught a course in International Legal Theory and gave special lectures and seminars; visitor, University of Michigan Law School, January (gave lectures and seminars); gave public lecture, University of Iowa College of Law, February; visitor, Harvard Law School, April (gave a lecture and a conference paper); president, Australian and New Zealand Society of International Law; chair, International Law Association Committee on the Teaching of International Law; member, International Law Association Committee on Feminism and International Law; member, International Law Association Committee on Customary International Law; member, advisory board, Defence of Children International; co-editor, *Australian Yearbook of International Law*; editorial board, *Law and Policy Papers*, Centre for International and Public Law; member, board of editors, *American Journal of International Law*; editorial board, *International Feminist Journal of Politics*; editorial board, *Leiden Journal of International Law*; editorial board, *Legal Research in Australia and New Zealand*; refereed Australian Research Council (ARC) grants; member, Foreign Affairs Council of the Minister for Foreign Affairs; adviser, national committee on Human Rights Education; member, advisory board Justice Research Centre; member, ACT Fulbright selection committee; workshop presenter, Ausaid; radio commentary, Law Report, ABC Radio National.

CLARKE, J, refereeing articles, *Indigenous Law Bulletin* UNSW Indigenous Law Centre and *Law in Context* Melbourne; refereed grant application, Australian Institute of Aboriginal and Torres Strait Islander Studies; submission (with K Guest and S Brennan) to the United Nations committee on the elimination of racial discrimination inquiry into Australian native title law, Australians for Native Title and Reconciliation; guest lecturer on indigenous legal issues, University of the 3rd Age; organised Australian visit of N Colmenares, National Amnesty Commission of the Philippines.

CREYKE, R M, appointed member for 3 years to Administrative Review Council, member national committee, Australian Institute of Administrative Law, member ACT Women Lawyers Association and Softlaw Community Projects; editor, *Veterans' Affairs* cases, Butterworths *Administrative Law Decisions/Service*; editor (with J McMillan, Faculty of Law), proceedings of AIAL National Forum; editor (with P Keyzer), proceedings of Public Law Weekend; consultant, Phillips Fox, solicitors; provided advice on health law and administrative law matters to Information and Research group, Commonwealth Parliament; public seminar on tribunals; speaker, Law Over Lunch series; reviewer of manuscript, *Federal Law Review*.

DAVIS, Prof J L R, observer at meetings, Council of the ACT Law Society, provided reports on Law Faculty at meetings; member, editorial board *Tort Law Journal*; co-presenter (with Dr NC Seddon) CPLI Pty Ltd, presented two-day courses on contract law to participants; legal adviser, Senate Standing Committee for the Scrutiny of Bills, provided expert legal advice on any contravention of the Committee's Terms of Reference in relation to all Bills introduced into either House of Federal Parliament in each sitting week; legal adviser, Senate Standing Committee on Regulations and Ordinances, expert legal advice on any contravention of Committee's Terms of Reference in relation to all instruments of delegated legislation tabled in Federal Parliament each week; seminar presenter, University of New South Wales Law Faculty continuing legal education seminar on 'Solidary Liability in the Law of Tort'.

EASTEAL, Dr P W, refereed large Australian Research Council (ARC) grants and an (ARC) Collaborative grant; reviewer, *Social Science & Medicine*, researcher and collective member,

Canberra Rape Crisis; lecturer, Michigan State University; volunteer and invited speaker, Radford College.

GUNNINGHAM, Prof N A, refereed large Australian Research Council (ARC) grant applications; consultancy advice re Regulation of Occupation Health and Safety, National Occupational Health and Safety Commission.

McCORQUODALE, R, chair, Commonwealth Attorney-General and Human Rights Non-governmental organisations; provided human rights training courses for Department Foreign Affairs and Trade (DFAT) and AusAid officials, Philippine government officials and Ministry of Foreign Affairs; seminar on international law, Department of Immigration; seminar on international human rights law to (DFAT); expert opinion, Refugee and Immigration Legal Centre, on torture victim in complaint to United Nations Committee Against Torture; treasurer, Australian and New Zealand Society of International Law; chair, International Law Association Committee on human rights law and practice; editor, *Australian Journal of Human Rights*; general editor, *Dartmouth Series on International Law*; editorial boards, *Australian Yearbook of International Law*, *Federal Law Review*, *Australian Journal of Human Rights*, *International Journal of Human Rights*; refereed 5 large research grants, Australian Research Council; member, Board for Social Responsibility, Uniting Church of Australia, NSW Synod; radio commentary, Australian Broadcasting Commission (ABC) and commercial radio, on East Timor; information, Amnesty International on Snowy Mountains.

McMILLAN, J D, vice-president of national executive, Australian Institute of Administrative Law; member, editorial board, *Federal Law Review* and AIAL Forum; external referee on two large grant applications for the Australian Research Council (ASRC); member, Commonwealth Attorney-General's Department, Federal Offenders' Review Panel, commenting on draft decisions concerning release of federal offenders; consultant, Clayton Utz, government services group; submission to Senate Legal and Constitutional References Committee on refugee determination system; external referee for

masters thesis, Melbourne University; external referee for articles submitted for law journal publication, Deakin University.

PEARCE, Prof D C, Australian chapter in International Institute of Administrative Sciences Report on Ombudsmen, Reading University Ombudsman Centre; reviewed content of quarterly publication, *Admin Review*; review of SPIRT application; chair, Australian Press Council; Copyright Law Review Committee; member, Copyright Tribunal; chair, ACT Cricket Association Appeals Committee.

RIDGE, P A, member project team appointed by Uniting Church in Australia, to research and write guidebook for congregations and other church bodies on the care, protection and safety of children.

SPENDER, P, member, advisory board, drafting committee, Professional Certificate In Arbitration and Mediation; co-editor, *Federal Law Review* volume 27; provision of legal advice to Acton Early Childhood Centre.

STEWART, D J, consultant to, Intellectual Property Competition Review committee, regarding issues to be considered for release of issues paper.

STONE, A, member, management committee Women's Legal Centre, ACT and region involvement in management and recruitment decisions; book review editor, *Federal Law Review*; provided constitutional advice to organising committee, ACT Schools Constitutional Convention; speaker on role of High Court in Australian system of government, Rotary.

WEEKS, P C, assistant editor, *Federal Law Review*; editorial committee, *Australian Journal of Labour Law*; refereed Australian Research Council (ARC) grant, one (ARC) Spirt grant, one University of Sydney small (ARC)/New Starter Grant; part-time legal member, Social Security Appeals Tribunal, appeal hearings and decision writing; chair, ACT Sex Industry Consultative Group, advising the Attorney-General, chairing of meetings and report writing; consultant on employment law for Auditor-General of South Australia, reviewing termination of senior public servants for Annual Report, research and writing; director, The Credit Union of Canberra; designed and presented 2-day training course (with G Williams, Research School Social Science (RSSS)) on labour law and

the Constitution for Department of Employment, Workplace Relations and Small Business; examiner of Masters' thesis, University of Canberra, Faculty of Management.

WHEELER, F D, treasurer, Australian Association of Constitutional Law (AACL); comments editor, *Public Law Review*, commissioning and editing word comments on current issues in public law; short presentation on the republic to tax accountancy firm Shaddock & Spence, Melbourne; elected treasurer, Australian Association of Constitutional Law.

WOLFF, L T, served on the Australian-European Awards scholarships committee at the request of IDP Education Australia; expert witness before Senate Committee on Foreign Affairs, Defence and Trade References Committee, reporting on the contemporary developments in Japan relating to law.

Joint Research Projects undertaken with universities, CSIRO and other institutions

Institute of Advanced Studies

Astronomy and Astrophysics, Research School of

MACHO Project, by Dr T AXELROD, Prof K FREEMAN, Dr B PETERSON, A. DRAKE with R Allsman, ANUSF; C Alcock, K Cook, M Geha, S Marshall, D Minniti, P. Popowski, C Nelson, A Tomaney, Lawrence Livermore National Lab; P Quinn, ESO; C Stubbs, A Becker, University of Washington; W Sutherland, Oxford; D Welch, McMaster; D Alves, STSci; D Bennett, Notre Dame; K Griest, T Vandehei, UCSD; M Lehner, Sheffield.

TAOS Project, by Dr T AXELROD with C Alcock, K Cook, S Marshall, Lawrence Livermore National Lab; T Lee, C-Y Wen, S K King, Academia Sinica, Taiwan; W P Chen, C Lemme, A Wang, National Central University, Taiwan; I de Pater, UC Berkeley; J Lissauer, NASA Ames.

Southern Trans-Neptunian Object Survey, by Dr T AXELROD, Dr B P SCHMIDT, Dr C JACKSON, R MOODY, with C Alcock, K Cook, S Marshall, Lawrence Livermore National Lab; I de Pater, UC Berkeley; J Lissauer, NASA Ames.

REACT by Dr T AXELROD, Prof J R MOULD, Dr B P SCHMIDT with S Kulkarni, F Harrison, A Diercks, T Galama, CalTech.

Model Atmospheres of Metal-Deficient Stars by Prof M S BESSELL with Dr F Castelli, Trieste.

Comparison of UBVR systems using Hipparcos photometry by Prof M S BESSELL with Dr A Cousins, SAAO.

UBVR photometry of Hipparcos Subdwarfs by Prof M S BESSELL with Dr R Shobbrook, University of Sydney.

H alpha survey of Milky Way by Prof M S BESSELL, P PRICE, M BUXTON with Dr A Green, University of Sydney; Dr R Watson, University of Tasmania.

Interstellar Li isotope ratio by Prof M S BESSELL with S Kawanomoto, Prof H Ando, Prof T Kajino, NOAJ.

Broadening of lines in cool dwarfs by Prof M S BESSELL with Dr J O'Mara, University of Queensland.

Magnetised accretion discs by Dr G V BICKNELL with Dr Z Kuncic, University of Victoria, Canada.

High energy emission from blazars by Dr G V BICKNELL with Dr S Wagner, Landessternwarte, Heidelberg.

The interpretation of data on the TeV-ray blazar Markarian 501, by Dr G V BICKNELL with Dr S Wagner at Landessternwarte, Heidelberg.

The 2dF galaxy redshift survey, by Dr M M COLLESS, Dr B A PETERSON and I A PRICE with Drs K Taylor, K Glazebrook, J Bland-Hawthorn, S L Lumsden, I R Lewis, T J Bridges and R D Cannon, AAO; Drs W J Couch and S P Driver, UNSW; and UK collaborators.

The EFAR Project: The peculiar motions of early-type galaxies in two distant regions, by Dr M M COLLESS with Prof R L Davies, Durham; Prof D Burstein, Arizona State; Prof G Wegner, Dartmouth; Dr R Saglia, Munich; and Dr R McMahan, UNC.

Hubble space telescope imaging of the CFRS and LDSS Redshift Surveys by Dr M M COLLESS with Prof S J Lilly, Toronto; Prof R S Ellis, Cambridge; Dr O LeFevre, Marseilles; and other collaborators in Canada, France and the UK.

OzPoz: design and construction of a fibre positioner unit for the FLAMES spectrograph on the European Southern Observatory's very large telescope by Dr M M COLLESS with Dr K Taylor, AAO; A. Prof W C Couch, UNSW; and other collaborators from the AAO and UNSW.

The 6dF galaxy survey: a survey of the mass and motions in the local universe using a new fibre spectrograph on the AAO Schmidt Telescope by Dr M M COLLESS with Dr Q A Parker, and Dr F G Watson, AAO; and other collaborators in Australia, USA, UK and France.

ANDES: Australia-Netherlands Deep Extragalactic Spectrograph, by Dr M M COLLESS with Dr K Taylor, AAO; Assoc Prof W C Couch, UNSW; Prof T de Zeeuw and Prof M Franx, Leiden.

The dwarf spheroidal companions to M31 by Dr G Da COSTA with Dr T Armardroff, KPNO; Dr N

Caldwell, Whipple Obs; and Dr P Seitzer, University of Michigan.

The chemical histories of the Fornax and Carina dwarf spheroidal galaxies by Dr G Da COSTA with Dr T Smecker-Hane, UC Irvine; Dr J Hesser and Dr P Stetson, DAO; and Dr D Hatzidimitriou, University of Crete.

The origin of globular cluster abundance anomalies — clues from the main sequence by Dr G Da COSTA and Prof J NORRIS with Dr B Gibson, University of Colorado; Dr R Cannon, AAO; and Dr B Croke, University of Crete.

Magnesium isotope ratios in globular cluster red giants by Dr G Da COSTA and Prof J NORRIS with and Dr J Lattanzio, Monash University.

Spectral properties of radio-selected broad absorption line QSOs by Dr M de KOOL with Prof R Becker, Lawrence Livermore National Lab.

Analysis and interpretation of HST-STIS Broad Absorption Line QSO spectra by Dr M de KOOL with Dr N Arav, UC Davis; and Dr K T Korista, University of Western Michigan.

The COLA project: compact objects in low-powered AGN by Dr C HEISLER and Prof M DOPITA with Dr A P Marston, SAO; Dr P N Appleton, Iowa State University; Dr M Bransford, New Mexico State University; and Dr R Norris, ATNF.

The fate of planetary nebulae in elliptical galaxies by Prof M A DOPITA with Prof S Massaglia and S Bodo, University of Torino, Italy; Dr M Arnaboldi and Dr P Merluzzi, Capodimonte, Italy.

Calibration of nebular emission-line diagnostics by Prof M DOPITA with Dr S Oey, STScI; Prof J C Shields, Ohio University; and Dr R C Smith, CTIO.

Photoionisation and shock modelling of the HII region abundance sequence and of luminous infrared galaxies by Prof M A DOPITA, L K KEWLEY, Dr C A HEISLER and Dr R SUTHERLAND with Prof B Rocca-Volmerange and E. Moy, Institut d'Astrophysique, France.

Post-asymptotic giant branch evolution in the Magellanic clouds by Prof M A DOPITA, Dr S MEATHERINGHAM and Dr P WOOD with Prof H C Ford, Johns Hopkins/STScI; Dr E Vassiliadis and Dr R Bohlin STScI; Prof P Harrington, University of Maryland; Dr T Stecher and Dr S Maran, NASA Goddard Space Flight Center.

Southern planetary nebulae by Prof M A DOPITA and Prof C T Hua, Laboratoire Astrophysique Spatiale, Marseilles, France with Dr Q Parker, ROE; Prof R E Williams, STScI; and Dr D Pequignot, Observatoire de Paris, Meudon.

The physical conditions in the extended emission-line regions of nearby Seyfert galaxies by M ALLEN, Prof M A DOPITA and Dr G V BICKNELL with Dr Z Tsetanov, Johns Hopkins University.

Astronomical site testing at dome C in the Antarctic by Prof J R MOULD, Prof M A DOPITA, and Dr R SUTHERLAND with Prof J Storey, Dr M Ashley, and Dr M Burton, University of New South Wales; Prof J Vernin, Dr C Coulman, and Dr M Azouit, Université de Nice; Prof P Maffei and Dr L Valenziano, Università di Perugia; and Prof R Viotti, Istituto di Astrofisica Spaziale, Frascati.

Determination of the emission mechanism in LINERS and Seyferts by Prof M A DOPITA, Dr R SUTHERLAND and Dr G V BICKNELL with Dr A P Koratkar and Dr Mark Allen of the Space Telescope Science Institute.

HST observations of the O-rich supernova remnant in the Magellanic clouds by Prof M A DOPITA with Dr W P Blair, Johns Hopkins University; Dr P F Winkler, Middlebury College; Dr R Kirshner and Dr J C Raymond, Center for Astrophysics, Harvard; Dr K Long and Dr J Morse, Space Telescope Science Institute; and Dr R Sutherland, JILA, U Colorado.

The helical jet/ISM interaction in NGC 4258 by Dr G N CECIL, UNC with Prof M A DOPITA with Dr L J Greenhill, CFA; Dr J M Moran, CFA; and Dr C G De Pree, NRAO.

Hubble space telescope study of a galaxy cluster at redshift 2.38 by Dr P J FRANCIS with Dr B E Woodgate, NASA Goddard Space Flight Center.

Red quasars in the Parkes half-Jansky survey by Dr P J FRANCIS with Dr R L Webster and Dr M J Drinkwater, University of Melbourne.

Kinematics of the local F and G dwarfs by Dr R FUX with Prof M Mayor, Dr N Mowlavi, Dr S Udry, Geneva Observatory; Prof J Andersen, Prof B Nordstroem, Prof E H Olsen, Copenhagen University; and Dr F Pont, Chile University.

Near-infrared imaging spectroscopy of NGC 1614 by Dr C HEISLER, Prof M DOPITA and L KEWLEY with Dr S Lumsden, AAO.

Near-infrared spectropolarimetry of Centaurus A and the Circinus Galaxy by Dr C HEISLER with D Alexander, Prof J Hough, Dr S Young, Dr A Robinson, University of Hertfordshire; Dr J Bailey and Dr S Lumsden, AAO.

Near-infrared spectroscopy of 60 micron Peakers: searching for buried AGN by Dr C HEISLER with Dr M De Robertis, York University, Canada.

The energy budget in luminous IRAS galaxies by Prof M DOPITA, Dr C HEISLER, Dr R SUTHERLAND and L KEWLEY with Dr S Lumsden, AAO.

Radio properties of Starburst/Seyfert composite galaxies by Dr C HEISLER with T Hill and Dr R Hunstead, University of Sydney; and Dr R Norris, ATNF.

Near-infrared spectroscopy of bright Seyfert 2 galaxies by Dr C HEISLER with Dr S Lumsden, AAO; Dr S Young and Dr J Hough, University of Hertfordshire.

Optical spectropolarimetry of northern bright Seyfert 2 Galaxies: testing the unified model by Dr C HEISLER with Dr S Lumsden, AAO; Dr S Young and Dr J Hough University of Hertfordshire.

Compact objects in low-power AGN (COLA) project: I band imaging; CO fluxes, radio continuum mapping, VLBI fluxes, optical spectroscopy by Dr C HEISLER and Prof M DOPITA with Dr R Norris, ATNF; Dr P Appleton, Dr C Struck, Iowa State University; Dr M Bransford, New Mexico State University; Dr E Corbett, ATNF.

Whole earth blazar, WEB Telescope project by Dr C HEISLER with Dr J Mattox, Boston University; and many others around the world (see <http://gamma.bu.edu.webt/>).

Optical spectroscopy and VLBI of LIRGs by Dr C HEISLER, L KEWLEY and Prof M DOPITA with Dr R Norris, ATNF; and Dr S Lumsden, AAO.

Optical spectroscopy of nearby, bright spirals by Dr C HEISLER and Prof M DOPITA with Dr E Sadler, University of Sydney.

Optical monitoring of PKS 0405-385 by Dr C HEISLER with L Kedziora-Chudczer, RCFTA and ATNF; Dr Z Kuncic, University of Victoria, Canada; Dr D Jauncey, ATNF; and Dr M Walker, RCFTA.

Optical monitoring of Blazars by Dr C HEISLER with H Bignall, University of Adelaide and ATNF; and Dr T Tzioumis, ATNF.

Near-infrared spectral mapping of IC 5063 by Dr C HEISLER with Dr P Appleton, Iowa State University; and Dr R Norris, ATNF.

Dark matter in distant galaxy halos by Dr C HEISLER, Dr R SMITH, Dr K FREEMAN and G WILSON with Dr M Walker, SRCFTA, University of Sydney; and Dr B Boyle, AAO.

Correlated optical and radio intra-day-variability in Blazars by Dr C HEISLER with Dr S Wagner, University of Heidelberg; and Dr T Tzioumis, ATNF; L Kedziora-Chudczer, RCFTA and ATNF; and H Bignall, University of Adelaide and ATNF.

Evolution and unified schemes of radio-loud AGN by Dr C JACKSON with Prof J V Wall, Oxford.

Local radio source populations and the LRLF by Dr C JACKSON with Dr E M Sadler and V J McIntyre, University of Sydney; and Prof R D Cannon, AAO.

The space density of flat spectrum radio quasars by Dr C JACKSON with Prof J V Wall, Oxford; Dr P A Shaver and Dr I M Hook, European Southern Observatory, Garching.

Local compact steep-spectrum radio galaxies in 2dFGRS by Dr C JACKSON with Prof R T Schilizzi, Joint Institute for VLBI in Europe.

Distance and depth of the Virgo Cluster by Dr H JERJEN, PI, and Prof K C FREEMAN with Dr B Binggeli, Astronomical Institute, University of Basel.

Empirical calibration of the SBF method for dEs by Dr H JERJEN, PI, with Dr L Labhardt, Astronomical Institute, University of Basel; and Dr B Binggeli, Astronomical Institute of Basel.

SBF and spectroscopic survey of dwarf elliptical galaxies in the supergalactic plane by Dr H JERJEN, PI, and Prof K C FREEMAN, with Prof M Valtonen, Mr M Hanski, R Rekola and Dr L Takalo, Tuorla Observatory, Finland.

The all-sky 21cm survey at the Parkes radio telescope by Prof R WEBSTER, PI and University of Melbourne with Dr G Banks, Prof M J Disney, University of Wales; Dr D G Barnes, Prof R D Ekers, Dr B Koribalski, Dr T Osterloo, Dr R M Price, Dr L Staveley-Smith, Dr A E Wright, ATNF; Prof R Bhathal, UWS; Prof K C FREEMAN, Dr H JERJEN, Prof J R MOULD, RSAA; Dr B Gibson, University of Colorado; Dr P Henning, New Mexico; V Kilborn, University of Melbourne; Dr P Knezek, STScl; Dr

D Malin, Dr S D Ryder, AAO; Prof E M Sadler, University of Sydney.

Stellar correlations in a shearing sheet by Dr AJ KALNAJS with Prof A Toomre, MIT.

Compact radio cores in luminous infrared galaxies by L KEWLEY, Dr C HEISLER and Prof M DOPITA with Dr R Norris, ATNF and CSIRO.

Stellar population synthesis, shock and photoionisation modelling of galaxy spectra by L KEWLEY, Prof M DOPITA, Dr R SUTHERLAND and Dr C HEISLER with Prof B Rocca-Volmerange, E Moy, l'Institute d'Astrophysique de Paris.

Quantum dust modelling by L KEWLEY, Dr M DOPITA and Dr R SUTHERLAND, with Dr R Szczerba, Nicolaus Copernicus Astronomy Center.

Interference excision using the Parkes multibeam by L KEWLEY with Prof R Ekers, Dr B Sault, ATNF and CSIRO.

Optical spectroscopy of Eta Carinae by Dr P MCGREGOR with Dr R Humphreys and Dr K Davidson, University of Minnesota.

The extragalactic distance scale by Prof J R MOULD with Dr J P Huchra, Harvard Smithsonian CfA; Dr L Ferrarese, UCLA; Dr H C Ford, Johns Hopkins University; Dr W L Freedman, OClW; Dr J Graham, Dr D Kelson, Carnegie Institution of Washington; Dr R Hill, NASA Goddard; Dr B Gibson, U Colorado; Dr K Sebo, J G Hoessel & M Han (University of Wisconsin), S M Hughes (Royal Greenwich Observatory; Dr G D Illingworth, UCSC; Dr R C Kennicutt Jr, University of Arizona; Dr B F Madore, Dr N Silbermann, IPAC, Caltech; Dr R Phelps, Dr A Saha, NAO; Dr P B Stetson, DAO; and A Turner, U Arizona.

The wide field and planetary camera 2 by Prof J R MOULD with Dr A M Watson, UNAM; Dr J G Hoessel, Dr J S Gallagher III, University of Wisconsin; Dr G E Ballester, Dr J T Clarke, University of Michigan; Dr C J Burrows, Dr S Casertano, STScI; Dr R E Griffiths, University of Pittsburgh; Dr J J Hester, Dr P A Scowen U Arizona; Dr J A Holtzman, New Mexico State University; Dr K R Stapelfeldt, Dr J T Trauger, and Dr D Crisp, JPL.

The multiband photometric imager for the space infrared telescope facility by Prof J R MOULD with Dr E Arens, UC Berkeley; Dr C Beichman, Caltech; Dr S Gaelema, Black Forest Engineering; Dr T N

Gautier, JPL; Dr E Haller, LLNL; Dr C Lada, Harvard-Smithsonian Astrophysical Observatory; Dr F Low, U Arizona; Dr G Neugebauer, Caltech; Dr P Richards, UC Berkeley; Dr M Rieke, U Arizona; Dr P Strittmatter, U Arizona; Dr M Werner, JPL.

Preparatory science for SIM: Measurement of the ages of the most metal poor stars in the galaxy by Prof J R MOULD with Dr T Beers, Michigan State University; Prof J Norris, Dr D VandenBerg, University of Victoria, BC; and Dr N Christlieb, Hamburger Sternwarte.

NICMOS observations of extragalactic cepheids by Prof J R MOULD with Dr L Macri, Harvard; Dr D Calzetti, Space Telescope Science Institute; Dr W Freedman, Carnegie Observatories; Dr B Gibson, University of Colorado; Dr J Graham, Carnegie Institution of Washington; Dr J Huchra, Harvard Smithsonian Center for Astrophysics; Dr S Hughes, Dr B Madore, IPAC Caltech; Dr E Persson, Carnegie Observatories; and Dr P Stetson, Herzberg Institute for Astrophysics.

Identification of the galaxy's missing mass by Prof J R MOULD with Dr T Axelrod, Dr K Cook and C Alcock, Lawrence Livermore National Lab; Dr K Freeman, and Dr G Da Costa.

The most metal deficient stars by Prof J E NORRIS with Dr T C Beers, Michigan State University, and Dr S G Ryan, Open University, UK.

Lithium abundances of halo stars by Prof J E NORRIS with Dr T C Beers, Michigan State University; Dr S G Ryan, Open University; Dr K A Olive, University of Minnesota; and Dr B D Fields, University of Illinois at Urbana-Champaign.

Carbon-rich metal-poor stars by Prof J E NORRIS and Dr M S BESSELL with Dr H Ando, Mr W Aoki, National Astronomical Observatory, Japan; Dr T C Beers, Michigan State University; and Dr S G Ryan, Open University.

The origin of globular cluster abundance anomalies: Clues from the main sequence by Dr G S Da COSTA and Prof J E NORRIS with Dr R D Cannon, Anglo-Australian Observatory; and Dr B F Croke, University of Crete.

The origin of globular cluster abundance anomalies: Magnesium isotope ratios in Omega Centauri and other clusters by Prof J E NORRIS and Dr G S Da COSTA with Dr J Lattanzio, Monash University.

In situ studies of the old populations of the galaxy by Prof J E NORRIS and Prof K C FREEMAN with Dr G Gilmore, Cambridge University; and Prof R F G Wyse, Johns Hopkins University.

Studies of structure in the galactic halo by Prof J E NORRIS and Prof K C FREEMAN with Dr H L Morrison, Case Western Reserve University; Prof M Mateo, University of Michigan; Dr E Olszewski and P Harding, University of Arizona.

Blue horizontal branch stars and the mass of the galaxy by Prof J E NORRIS with Dr P Hewett, University of Cambridge; and Dr S J Warren, Imperial College London.

Searching for extrasolar planets using precise radial velocities obtained with an iodine cell and the MSO 74 in telescope coude spectrograph by Dr B PETERSON with Dr P Wehinger, University of Arizona; and Dr S Wycoff, Arizona State University.

Construction of a CCD camera for the UK Schmidt telescope at SSO by Dr B PETERSON with K Kimiaki, University of Tokyo; and W Brown, Apogee Instruments. The camera will be used to find high-redshift QSOs and low metallicity stars, and to measure the colours of galaxies in the 2dF Redshift survey.

Construction of a 2 m telescope at 3000m on Haleakela, Maui by Dr B PETERSON with Y Yuzuru, University of Tokyo; and B Greene, Electro-Optical Systems. The telescope will be used to monitor active galactic nuclei and supernovae in several wavelength bands that cover the optical and near infrared wavelength regions.

The high-Z SN search by Dr B P SCHMIDT with N Suntzeff, C Smith, R Schommer; A Clocchiatti, U Catolica; R Kirshner, P Challis, P Garnavich, Harvard; B Leibundgut, J Spyromilio, P Woudt, ESO; M Phillips, Carnegie; M Hamuy, Arizona; C Stubbs, C Hogan, D Riess, A Diercks, UW; A Filippenko, A Riess, Berkeley; J Tonry, Hawaii; R Gilliland, STScI.

Supernova intensive study with HST by Dr B P SCHMIDT with R Kirshner, Harvard; D Branch, Oklahoma; R Chevalier, Virginia; A Filippenko, Berkeley; C Fransson, Stockholm; B Leibundgut, ESO; N Panagia, STScI; M Phillips and N Suntzeff, CTIO; C Wheeler, Texas.

Abell Cluster SN search by Dr B P SCHMIDT and L GERMANY with D Riess and C Stubbs, UW.

The southern all sky transient survey by Dr B P SCHMIDT with M Ashley, UNSW; C Stubbs, UW; A Riess, STScI; Y Yoshii, UTokyo.

Global properties of inner-ring galaxies by Dr M SEVENSTER and Prof K FREEMAN with Dr B Koribalski, ATNF, CSIRO; Dr A Lancon, Strasbourg; Dr P van der Werf, Sterrewacht Leiden.

Unusual OH-maser point sources by Dr M SEVENSTER with Dr J Chapman, ATNF, CSIRO.

Dynamical behaviour of infrared carbon stars by Dr M SEVENSTER with Dr M Groenewegen, MPA, Garching; Prof A Omont and E Josselin, IAP, France; Prof H Habing, Sterrewacht Leiden.

VLA OH-1612-MHz survey of the galactic plane by Dr M SEVENSTER and R MOODY with Dr H van Langevelde, JIVE, NFRA; Dr N Killeen, Dr J Chapman, ATNF, CSIRO; Prof H Habing, Sterrewacht Leiden.

The 2dF QSO redshift survey by Dr R J SMITH with Dr B J Boyle, AAO; Dr T Shanks, Durham; Dr S M Croom, Imperial College, London; Dr L Miller and N Loaring, Oxford.

Joint optical/radio selection of QSOs by Dr R J SMITH with Dr M Brotherton and Dr W van Breugel, Lawrence Livermore National Laboratories; Dr B J Boyle, AAO; Dr L Miller, Oxford.

QSO environments by Dr R J SMITH with Dr B J Boyle, AAO; Dr S J Maddox, Cambridge.

A search for galactic halo dark matter through QSO microlensing by Dr R J SMITH, G M WILSON, Dr C A HEISLER, and Prof K G FREEMAN with Dr M A Walker, RCFTA Sydney; Dr B J Boyle, AAO.

Accretion processes in black-hole binaries by R SORIA with Dr K Wu, University of Sydney; Dr R W Hunstead, University of Sydney; Dr H M Johnston, Anglo-Australian Observatory; Mr D Galloway, University of Tasmania.

Stellar evolution and nucleosynthesis on the AGB by Dr P R WOOD with Dr J Lattanzio, Monash University.

Theoretical models of Mira variables by Dr P R WOOD and Prof M S BESSELL with Prof M Scholz, University of Heidelberg.

Optical/Near-IR spectra of ABG stars by Dr P R WOOD with Dr A Lancon, University of Strasbourg.

LPVs in the LMC bar by Dr P R WOOD with the MACHO team.

Observations and theory of cepheids by Dr P R WOOD with Dr G Bono, Osservatorio Astronomico di Trieste.

Infrared and SiO observations of stars near the galactic centre by Dr P R WOOD with Dr S Deguhi, Nobeyama Radio Observatory.

Infrared observations of ISO sources in the magellanic clouds by Dr P R WOOD with Dr T Tanabe and Dr Y Nakada, University of Tokyo.

Optical and infrared observations of cepheids in M33 and Fornax by Dr P R WOOD with Dr D Bersier, Harvard.

Velocity monitoring of LMC red giants by Dr P R WOOD and Dr T AXELROD with Dr D Welch, McMaster University.

Observation and modelling of Mira emission lines by Dr P R WOOD with H Richter, Technical University of Berlin.

Observations of MSX sources in the LMC and near the galactic centre by Dr P R WOOD with Dr M Cohen, University of California Berkeley.

Monitoring of infrared sources in the galactic plane and the LMC by Dr P R WOOD and Dr M SEVENSTER with Prof H Habing and M Cioni, Leiden.

The long-period variables in the SMC by Dr P R WOOD and Prof M S BESSELL with G Moore, University of Wollongong.

Biological Sciences, Research School of

Bioinformatics

Completion of a code of standardised descriptors for virus characteristics and development of mapping tools for other databases systems by BÜCHEN-OSMOND C with L Blaine and T Piselli, Bioinformatics, American Type Culture Collection, Manassas, Virginia, USA.

Development of DELTA software and their incorporation into ICTVdB to improve the manoeuvrability within large data-sets, their outputs in print (rtf format) and on the Web (HTML). Research and development of METAdata

formats to improve the interoperability between DELTA outputs and data mapping to other database systems. Improvement of data submission forms on the web developed at ANU through incorporation of Java applets by C BÜCHEN-OSMOND with M J Dallwitz and E Zurcher, CSIRO Entomology, Canberra.

Preparation of virus type species descriptions as templates and coordination of worldwide data input by members of the ICTV Study Groups by C BÜCHEN-OSMOND with Dr Tony Della-Porta, CSIRO Animal Health Laboratory, Geelong.

Detection and evolution of viruses associated with carrot motley dwarf disease by M J GIBBS with P Vercruysse and M Höfte, University of Gent, Belgium.

Endornavirus evolution and taxonomy by M J GIBBS with R Koga and T Fukuhara, Faculty of Agriculture, Tokyo University of Agriculture and Technology, Fuchu, Tokyo, Japan.

Endornavirus evolution and taxonomy by M J GIBBS with P Pfeiffer, Institute of Plant Molecular Biology, Strasbourg, France.

Sugarcane yellow leaf virus: evolution and taxonomy by MJ GIBBS with G Smith and Z Borg, David North Plant Research Centre, Bureau of Sugar Experiment Stations, Indooroopilly, Queensland.

Umbravirus detection and evolution by M J GIBBS with T Ndwora, Kutsaga Research Station, Harare, Zimbabwe.

Ecology and conservation of threatened swamp-dwelling plants and insects in southern NSW by J W H TRUEMAN with S Hoebee, Australian National Herbarium and C K Dearson, Sydney Catchment Authority.

Evolution of entomopathogenic fungi by J W H TRUEMAN with F Driver and R Milner, CSIRO Entomology.

Evolution of nuclear receptors by J W H TRUEMAN, E BALL and D HAYWARD with JW Truman and LM Riddiford, Dept of Zoology, University of Washington, Seattle, USA.

Evolution of Odonata by J W H TRUEMAN with R Rowe, James Cook University.

Interactive guides to the Australian aquatic fauna by J W H TRUEMAN with P S Cranston, CSIRO Entomology.

Theory and philosophy of systematics by J W H TRUEMAN with D Faith, Australian Museum.

Taxonomic revision and keys for Pooideae (Poaceae) for Flora of Australia by C WEILLER with M J H Henwood, School of Biological Sciences, University of Sydney.

Distance methods for the reconstruction of recombinant phylogenies by GF WEILLER with Prof R Giegerich, Faculty of Technology, University of Bielefeld, Germany.

DNA sequence alignment respecting recombination events by G F WEILLER with Prof R Giegerich and Dr S Kurtz, Faculty of Technology, University of Bielefeld, Germany.

Evolution of immunoglobulin genes in mammals by G F WEILLER with E J Steele, University of Wollongong.

Developmental Neurobiology

Central pattern generators in the embryonic chick spinal cord by S M HO with M O'Donovan, NINDS, NIH.

Development of the trigeminal sensory pathway and modulation of spinal reflexes after spinal cord injury and regeneration by S M HO with P Waite, Neural Injury Research Unit, University of NSW.

Ontogeny of calcium binding proteins in the wallaby superior colliculus after optic nerve transection by S M HO with B Dreher, Dept of Anatomy, University of Sydney.

Voltage activated calcium currents in motoneurons and synaptic transmission by S M HO with M Mynlieff, Dept of Biology, Marquette University.

Computer modelling of motion vision by M R IBBOTSON with C W G Clifford, Psychology Department, Macquarie University, Sydney.

Objective visual field testing in clinical ophthalmology by A C JAMES with S L Graham and A Klistorner, Save Sight Institute, University of Sydney.

The function of corticocortical feedback in the primate visual system by A C JAMES with J Bullier, P Girard, J-M Hupé, INSERM Unit 371, Lyon,

France, and B R Payne and S G Lomber, Boston University School of Medicine.

Atlas of Wallaby Brain by R F MARK and B WIMBORNE with K W S Ashwell, University of NSW.

Anatomy of the hypothalamus of the developing and adult wallaby by L R MAROTTE with Cheng Gang and K W S Ashwell, University of NSW.

Chemical atlas of the wallaby brain by L R MAROTTE with K W S Ashwell and Dr G Paxinos, University of NSW.

Comparative astroglial architecture by L R MAROTTE with J Colombo, Programa Unidad de Neurobiología Aplicada (PRUNA) (Conicet) Buenos Aires, Argentina.

Development of thalamocortical synapses in the somatosensory cortex of the wallaby by L R MAROTTE with D L Flett, PME Waite, University of NSW and C A Leamey, University of Sydney.

Expression of developmental markers in the brain of the wallaby pouch young by L R MAROTTE with K W S Ashwell, University of NSW.

Expression of developmental markers in the brain of the wallaby pouch young by L R MAROTTE with J Mai, University of Dusseldorf, Germany.

Locating the centre that measures time in the brain of the tamar wallaby by H TYNDALE-BISCOE, L R MAROTTE and R F MARK with L Hinds, J Grigg, J Wright, CSIRO Wildlife and Ecology.

Long-term changes in gene frequency between the original population and surviving populations of Greater Gliders in isolated patches of eucalypt forest near Tumut, NSW by H TYNDALE-BISCOE with D Lindenmeyer, CRES, ANU and A Taylor, Department of Biological Sciences, Monash University.

Eph Antibodies by M VIDOVIC with U Drescher, Department of Physical Biology, Max-Planck Institute for Developmental Biology, Tubingen.

Biology, ecology and impacts of eastern grey kangaroos in the ACT by K VIGGERS with D Shorthouse and D Fletcher, Environment ACT, Wildlife Monitoring and Research Unit; Urban Services, Canberra, ACT.

Research issues associated with impacts of eastern grey kangaroos in the ACT by K VIGGERS with Peter Bayliss, The Marsupial CRC, ANU.

Director

Study of mammalian embryo implantation by J P HEARN with R Seamark, CRC for Pest Animal Control.

Biochemical embryology of the Tammar Wallaby by J P HEARN with L Hinds, CSIRO Wildlife and Ecology.

Ecosystem Dynamics

Biomechanics of freezing damage in eucalypt seedlings by M C BALL with J Wolfe, University of New South Wales.

Biomechanics of freezing damage in eucalypt seedlings by M C BALL and M J CANNY with A B Nicotra, Australian National University, J Wolfe, University of New South Wales, and D Hughes, CSIRO Land and Water Research.

Effects of elevated [CO₂] on hydraulic architecture of eucalypt seedlings by M C BALL with B Atwell, Macquarie University.

Strategies of water use in dry rainforest tree species: linking hydraulic architecture and function by M C BALL with B Choat and J A M Holtum, James Cook University.

Testing the storage effect principle in annual plant communities of arid lands by P L CHESSON with Dr J Facelli, University of Adelaide.

Long-term population dynamics of rainforests by I R NOBLE, P T GREEN and I DAVIES with J H Connell, University of Santa Barbara, California, USA.

Mechanisms Maintaining Diversity of Trees in Tropical and Subtropical Rain Forest by I R NOBLE and C A GEHRING with J H Connell, University of Santa Barbara, California, USA.

Modelling the dynamics of landscapes by I R NOBLE and I DAVIES with S Lavorel, Centre d'Ecologie Fonctionnelle et Evolutive, CNRS, Montpellier, France and RH Gardner, Univ Maryland, USA.

Models of savanna dynamics by I R NOBLE and J GIGNOUX with J-C Menaut, Ecol Normale Supérieure CNRS, Paris, France.

Competition and coexistence in an Australian understorey forest community by S H ROXBURGH with Dr P Chesson, Section of Evolution and Ecology, University of California, Davis, USA.

Development of novel methods for determining guild structure from experimental evidence by S H ROXBURGH with J B Wilson, Otago University, Dunedin, New Zealand.

Spatial modelling of the interactions between sponges and echinoderms by S R ROXBURGH with Dr A Davis, Department of Biological Sciences, University of Wollongong.

Electron Microscopy Unit

Exploration and Mining, WA, on SEM signal detectors by S STOWE with B Robinson, Electron Beam Laboratory, CSIRO.

Environmental Biology

The effect of temperature and irradiance on leaf respiration and the whole plant carbon economy of Australian tree seedlings by O K ATKIN with T L Pons and H Lambers, Department of Ecology and Evolutionary Biology, Utrecht University, The Netherlands.

Investigating CO₂ diffusion inside leaves by J R EVANS with B Genty, U Paris-Sud, France.

Photosynthetic acclimation of plants to growth irradiance: the relative importance of SLA and nitrogen partitioning in maximising carbon gain by J R EVANS with H Poorter, Utrecht University, The Netherlands.

Carbon and oxygen isotopes discrimination of tropical mangrove communities by G D FARQUHAR and S C WONG with Ong Jin Eong, Centre for Marine and Coastal Studies, Universiti Sains Malaysia.

Carbon isotope discrimination in tree rings by G D FARQUHAR with W G Allaway and D Pepper, University of Sydney.

Carbon isotope fractionation by G D FARQUHAR with Dr J Lloyd, Max-Planck-Institut für Biogeochemie, Jena, Germany.

Enhancing the effectiveness of using carbon isotope discrimination measures to select elite pine clones with improved water-use efficiency by G D FARQUHAR with Z H Xu and M Dieters, Queensland Forest Research Institute, and P Saffigna, Griffith University.

Inferring global biosphere fluxes from atmospheric measurements by G D FARQUHAR with P Peylin and P Ciais, LSCE — CEA de Saclay, France.

Investigations into the ecophysiology of three sympatric eucalypts by G D FARQUHAR and P KRIEDEMANN with J ANDERSON, Idaho State University, USA and M Austin, CSIRO.

Isotope discrimination and plant performance by G D FARQUHAR with M Kirschbaum, CSIRO Forestry, R Richards, CSIRO Plant Industry, G Rebetzke, CRC for Plant Science Centre, G Constable and W Stiller, CRC for Sustainable Cotton Production, Graeme Wright, Queensland Department of Primary Industries, J Virgona, New South Wales Department of Agriculture, R Fischer, ACIAR, K Sayres, CIMMYT and A Walcroft, University of Waikato, New Zealand.

Patchy stomata by G D FARQUHAR with K Mott, Utah State University.

Survey of $\delta^{13}\text{C}$ values in plants of various growth forms and resource availabilities in Western Australia by G D FARQUHAR and J MILLER with J S Pate, University of Western Australia.

Assessment of the tin gene for yield improvement in wheat by J M MASLE with R Richards and A vanHervarden (CSIRO, PI).

Molecular physiology of ammonium transport in rice (Feb 1997–mid 2000) by J M MASLE with N M Upadhyaya and Ryan (CSIRO, PI) and M Udvardi (Max Planck Institute for Molecular Plant Physiology, Golm, Germany). Funds for this work are supporting Mr M S Hoque, PhD student (thesis submission planned 2000), with one-third from RSBS, one-third from BAMBI and another third provided by the CRC for Plant Sciences.

Effects of elevated CO_2 on ecotypes of *Lolium rigidum* by M SCHORTEMAYER and J R EVANS with J W Warringa and R D Cousins, La Trobe University.

Rhizosphere effects of elevated CO_2 in a Florida scrub oak community by M SCHORTEMAYER with B Drake, Smithsonian Environmental Research Center, Edgewater, MD, USA.

Eurosiberian Carbonflux project in Siberia by J M STYLES with J Lloyd and D Schulze at Max Planck Institute for Biogeochemistry, Jena, Germany, R Leuning and M Raupach, CSIRO Land and Water, F Kelliher and J Byers, Manaaki Whenua Landcare Research, New Zealand, N Tchebakova and O Chibistova, V N Sukachev Institute of Forests,

Siberian Branch, Russian Academy of Sciences, Krasnoyarsk.

Effects of elevated CO_2 on the growth and water use efficiency of *Acacia auriculiformis* by S C WONG and G D FARQUHAR with Dr Woo, Northern Territory University.

On ecophysiology of tropical rainforests by S C WONG and G D FARQUHAR with IM Turner, Singapore Botanic Gardens.

On the physiology of orchids by S C WONG with C S Hew, School of Biological Sciences, National University of Singapore.

Rootstock influence on the relationship between vine performance and grape quality. ARC-SPIRT funded project by S C WONG and J W H YONG with J Smith and G Scollary, Charles Sturt University in Wagga Wagga, and B Holzapfel, NSW Agriculture.

Isolation and analysis of cytokinin mutants of *Arabidopsis thaliana* by transposon tagging approach by J W H YONG and D S LETHAM with T Tantikanjana and V Sundaresan, Institute of Molecular Agribiology, National University of Singapore, Singapore.

Genomic Interactions

Analysis of *Sinorhizobium meliloti* grown under acid stress conditions by M A DJORDJEVIC, N GUERREIRO and B G ROLFE with Dr W Reeves Murdoch University.

Analysis of Mycoplasma proteins by M A DJORDJEVIC and N GUERREIRO with SP Djordjevic, Elizabeth Mc Arthur Agricultural Institute.

Use of transgenic clovers to monitor auxin accumulation in aerial tissues by M A DJORDJEVIC and U MATHESIUS with Dr Beveridge and Dr Turnbull University of Queensland.

Analysis of novel regulatory circuits induced by mutations in exopolysaccharide synthesis by B G ROLFE, N GUERREIRO and M A DJORDJEVIC with Dr Ksenzenko and Dr Ivashina, Institute of Biochemistry and Physiology of Microorganisms, Russian Academy of Sciences Pushchino, Russia.

Molecular genetic analysis of rice-associating *Rhizobium* strains by B G ROLFE, J J WEINMAN and M A DJORDJEVIC with F B Dazzo, MSU, Michigan, USA.

Proteome analysis of developing nodule tissue in *Medicago* by B G ROLFE and M A DJORDJEVIC with E Kondorosi and A Kondorosi, IVS-CNRS GIF France.

Projects by B G ROLFE with the Australian Proteome Analysis Facility (AFAP), Macquarie University; with J K Ladha, International Rice Research Institute, (IRRI), Makati City, Philippines; with M Crespi, IVS-CNRS GIF France; with A Pühler, Department of Genetics, Faculty of Biology, University of Bielefeld, Germany; with Bio-Care Technology Pty Ltd, Somersby, New South Wales.

Investigations of molecular mechanisms causing cold sterility in rice by J J WEINMAN and B G ROLFE with R L Williams NSW Agriculture, Yanco Agriculture Institute.

Role of *nodR* gene in LCO production and level of acyl group saturation by J J WEINMAN and M A DJORDJEVIC with Prof Spaik Leiden University.

Molecular and Cellular Genetics

Investigation of heavy metal resistance in yeasts and plants by X J CHEN with Dr R Zhang, University of Wollongong.

Investigation of specific mutations affecting assembly of F₁-ATPase by X J CHEN and G D CLARK-WALKER with J Velours, Institut de Biochimie et de Génétique Cellulaire du CNRS, Bordeaux, France.

Regulation of multidrug resistance by *Sit4* protein phosphatase by X J CHEN with K Kuchler, University of Vienna.

Role of mitochondrial protein synthesis for viability of eukaryotic cells by X J CHEN with H Fukuhara, Institut Curie, Paris.

Characterization of mitochondrial DNA deletion mutations in the yeast *Schwanniomyces occidentalis* by G D CLARK-WALKER with M Claisse, Centre Génétique Moléculaire du CNRS, Gif-sur-Yvette, France.

Translational activators of mitochondrial mRNA in budding yeasts by G D CLARK-WALKER with M Constanzo and T D Fox, Cornell University, New York, USA.

Molecular Genetics and Evolution

Comparative development of glial cells in grasshopper and *Drosophila* by E E BALL with G M Technau, Johannes Gutenberg Univ.

Hormonal control of insect development by E E BALL and D C HAYWARD with J W Truman and L M Riddiford, Univ of Washington.

Molecular control of coral development by E E BALL and D C HAYWARD with D J Miller and J Catmull, James Cook University.

Chromosome mapping of novel human genes involved in brain, muscle and developmental processes by H D CAMPBELL with E Woollatt and G R Sutherland, Centre for Medical Genetics, Dept of Cytogenetics and Molecular Genetics, Women's and Children's Hospital, Adelaide.

Chromosome mapping of novel mouse and human genes involved in brain, muscle and developmental processes by H D CAMPBELL with G C Webb, Waite Institute and Dept of Obstetrics and Gynaecology, University of Adelaide, Queen Elizabeth Hospital, Adelaide.

Gene structure of the human and mouse *flightless-1* homologous gene, its deletion in the Smith-Magenis syndrome, and chromosome engineering of the murine SMS-syntenic region by H D CAMPBELL with K-S Chen and J R Lupski, Baylor College of Medicine, Houston.

Studies on potential role of FLII in centrioles using anti-FLII antipeptide antibodies and anti-centrin antibodies by H D CAMPBELL with D A Davy and M F Crouch, JCSMR and J Jarvik Carnegie Mellon University, Pittsburgh.

Studies on regulatory interactions of PIN1 by H D CAMPBELL with I Sanchez, Department of Molecular and Cellular Biology, Harvard University, Boston.

Chalk brood disease systematics by A J GIBBS with D ANDERSON, CSIRO Division of Entomology.

Houbara bustard systematics by A J GIBBS with M-A D'Aloia, National Avian Research Center, Abu Dhabi, UAE.

Taxonomy of Orchids and their viruses by A J GIBBS with M Clements and B Wallace, Environment Australia, Centre for Plant Biodiversity Research and the Australian National Botanic Gardens; C Wilson, Tasmanian Agriculture; E

Kitajima, University of Sao Paolo and others in Japan and Taiwan.

VIDE (Virus Identification Data Exchange) database by A J GIBBS with A Brunt, Horticultural Research Institute, UK.

Genetic variation in *Gpdh* in *D. melanogaster* by J B GIBSON with P Barnes, Dept Zoology, Connecticut College, USA.

Molecular structure of *Gpdh* in primitive insects by J B GIBSON with T Wilanowski, Royal Melbourne Hospital.

Regulation of *Gpdh* by JB GIBSON with S Bartoszewski, Tübingen.

Investigation of chromosomal rearrangements induced by hAT transposons by Y H M GRAY with S Whyhard, CSIRO Division of Entomology.

Evolution of RXR/USPs in insects by D C HAYWARD, J W TRUEMAN, R MALESZKA and E E BALL with M Whiting, Brigham Young University, USA.

Molecular control of grasshopper development by D C HAYWARD and E E BALL with N H Patel, University of Chicago.

Molecular Plant Physiology

Crystallographic structural studies of Rubisco activase by T J ANDREWS, H J KANE and S M WHITNEY with I Andersson, Swedish Agricultural University, Uppsala.

Crystallographic study of Rubisco structure by T J ANDREWS and H J KANE with P Curmi and A Duff, University of NSW.

The activation and catalytic mechanism of the plant carbon-fixing enzyme, Rubisco by T J ANDREWS, H J KANE and S M WHITNEY with R Lilley and M Kelly, University of Wollongong, P Curmi, University of NSW and A Portis, University of Illinois.

Effects of high temperatures on coral photosynthesis and bleaching by M R BADGER and L FRANKLIN L with T Larkum and O Hoegh-Guldberg, University of Sydney.

Investigations of CO₂ acquisition mechanism in dinoflagellates by M R BADGER, T J ANDREWS, G D PRICE and S M WHITNEY with D C Yellowlees and W Leggat, Department of Biochemistry and Molecular Biology, James Cook University.

Isolation and characterisation of ovule specific regulatory elements and genes from rice and Arabidopsis by M R BADGER and G D PRICE with R Jefferson and A Killian and W Yang, CAMBIA.

Molecular Analysis of the CO₂ Concentrating Mechanism in Cyanobacteria by M R BADGER and G D PRICE with D Sültemeyer, University of Kaiserslautern, Kaiserslautern, Germany.

Molecular and physiological analysis of plant respiration by M R BADGER and G D PRICE with D A Day, ANU; JT Wiskich, Univ of Adelaide; J Whelan, Univ of WA; S Robinson, Univ of Wollongong.

Secretion of β -glucuronidase in plants, yeast and bacteria by M R BADGER and G D PRICE with R Jefferson and A Killian and T Ngyuen, CAMBIA.

Influence of UV radiation on carbon partitioning in *Laminaria* by L A FRANKLIN with V Hurry, University of Umea.

Analysis of the CO₂-Concentrating mechanism in cyanobacteria by G D PRICE and M R BADGER with T Omata and T Ogawa, University of Nagoya, Japan.

Molecular and immunological analysis of carboxysomes by G D PRICE with M Ludwig, Dept Biol Sciences, Macquarie Uni.

Role of heat shock proteins in protecting photosynthetic processes in cyanobacteria by G D PRICE and M R BADGER with C S Pike, Dept Biology, Franklin and Marshall College, PA, USA; and Lin C-Y Dept Botany, National Taiwan Uni.

Construction of transgenic *Flaveria bidentis* (a C4 dicot) with reduced amounts of mesophyll carbonic anhydrase by S VON CAEMMERER with M Ludwig, Macquarie University, Furbank RT, CSIRO Plant Industry, Canberra.

Field gas exchange studies on C₃ and C₄ grasses grown at elevated CO₂ by S VON CAEMMERER with O Ghannoum, University of Western Sydney; and P Newton Grasslands Research Centre Palmerston North, NZ.

Mechanisms influencing the growth and distribution of C₄ grasses under rising CO₂ concentrations by S VON CAEMMERER with O Ghannoum, J P Conroy, University of Western Sydney, Hawkesbury.

Xanthophyll cycle and chlorophyll fluorescence in transgenic tobacco with reduced amounts of Rubisco by S VON CAEMMERER, S A RUUSKA and T J ANDREWS with S Robinson, University of Wollongong.

Photobioenergetics

Electron paramagnetic resonance studies of the S₀ state of photosystem II by K ÅHRLING K with S Styring, Biochemistry Department, Lund University, Sweden.

Studies of photoinactivation in plants by J M ANDERSON with G Öquist, Plant Physiology Department, Umeo University, Sweden.

Chilling stress in illuminated cucumber leaves by W S CHOW with C-H Lee, Department of Molecular Biology, Pusan National University, Korea.

Construction of a bacterial genomic library by R CLELAND with T Sutherland, CSIRO.

Identification of ferredoxin-plastoquinone reductase by R CLELAND with D S Bendall, Biochemistry Department, University of Cambridge, UK.

Voltametric detection of superoxide production by photosystem II by R CLELAND with S Grace, Biodynamics Institute, Louisiana State University, USA.

Analysis of the effects of the osmoprotectant glycine-betaine on photoprotective energy dissipation by the xanthophyll cycle by A GILMORE with N Murata, Department of Regulation Biology, National Institute of Basic Biology, Japan.

Analysis of the unique 1-step violaxanthin cycle in *Mantoniella squamata*: time-resolved fluorescence and molecular genetic approaches by A GILMORE with Y Yamamoto, Department of Plant Molecular Physiology, University of Hawaii, USA.

Characterization of chlorophyll *a* excited state lifetime distribution behavior in genetically engineered pigment-protein mutants of *Arabidopsis thaliana* by A GILMORE with K Niyogi and X-P Li, Department of Plant and Microbial Biology, University of California-Berkeley, USA.

Characterisation of the quantum yield of far-red emitting perylene diones to determine possible uses as a lifetime reference standard for chlorophyll *a* fluorescence by A GILMORE with L Tilley, Latrobe University.

Global Gaussian spectral deconvolution analysis of chlorophyll *b*-less and *b*-deficient mutants of barley with a time- and spectral-wavelength-resolving streak camera by A GILMORE with S Itoh, Department of Cell Biology, National Institute of Basic Biology, Japan.

Very high light resistant mutants of *Chlamydomonas reinhardtii* by C B OSMOND with J Boynton, Developmental, Cellular and Molecular Biology, Duke University, USA.

Biodiversity of Antarctic plant viruses by M SKOTNICKI with P Selkirk, Macquarie University.

Analysis of the substrate water exchange reactions in photosystem II reconstituted with strontium by T WYDRZYNSKI with W Hillier, Department of Chemistry, Michigan State University, and C Dismukes, Department of Chemistry, Princeton University, USA.

O₂ gas exchange studies in *Oscillatoria chlamydea* by T WYDRZYNSKI with K Bader, Department of Cell Physiology, University of Bielefeld, Germany.

Plant Cell Biology

Production of antibodies against plant cell wall proteins by J E ELLIOTT with J Marc, University of Sydney.

Production of antibodies against plant fimbriin-like proteins by J E ELLIOTT with D W McCurdy, University of Newcastle.

Endomembrane tubulation by A R HARDHAM and H J MITCHELL with G J Hyde, University of NSW.

Immunocytochemical investigations of Oomycete spore surfaces by A R HARDHAM and AV Robold with J Kerwin, University of Washington.

Identification of *Arabidopsis* genes for resistance to *Phytophthora* by A R HARDHAM, M N HEMMING and D A JONES with D M Cahill, Deakin University.

Transformation of *Phytophthora* by A R HARDHAM and J S MARSHALL with A Drenth and D Maclean, University of Queensland.

Transformation of *Phytophthora* by A R HARDHAM, J S MARSHALL with H Judelson, University of California, Riverside.

Cell proliferation in the developing leaf by P C L JOHN with R Munns, CSIRO Plant Industry.

Cloning *cdc* genes of *Chlamydomonas* by P C L JOHN with A Koutoulis, University of Tasmania.

Complementation of yeast cell cycle control proteins with potential plant homologues by P C L JOHN with J Hayles and P Nurse, Imperial Cancer Research Fund laboratories, London, UK.

Effects of plant cyclin dependent kinase inhibitor proteins on mitosis in live plant cells by P C L JOHN and A CLEARY with L C Fowke, University of Saskatchewan, Saskatoon, Canada.

Location and activity of plant cyclin dependent kinases by P C L JOHN and K ZHANG with D Inzé, University of Gent, Belgium.

Proteins associating with the cyclin dependent kinases of plant cells, especially CKS proteins by P C L JOHN with E A Williams, University of Western Australia.

Isolation of the tomato *I-3* gene for resistance to the wilt pathogen *Fusarium oxysporum* pv *lycopersici* by D A JONES with D McGrath, Bowen Horticultural Research Station, Queensland Department of Primary Industry.

Structure of plant extracytosolic leucine-rich repeat proteins by D A JONES and S LÄNG with B Kobe, St Vincent's Hospital, University of Melbourne.

Testing the interaction between the tomato *Cf-9* resistance gene and the *Cladosporium fulvum* *Avr9* avirulence gene in wheat by D A JONES and R WILSON with P Langridge, R Whitford, CRC for Molecular Plant Breeding, Adelaide.

Assessment of growth performance under hypoxic conditions and expression of metabolic indicators of hypoxic stress in the *hyp1* mutant of *Arabidopsis* by G O WASTENEYS with L Dennis, CSIRO Division of Plant Industry, Canberra.

Characterization of spiralling in microtubule organization and constitutive spiral mutants of *Arabidopsis thaliana* by G O WASTENEYS and K SUGIMOTO with T Hashimoto, Nara Institute of Science and Technology, Japan.

ER dynamics and root hair development in *Arabidopsis thaliana* by G O WASTENEYS with M Galway, St Francis Xavier University, Canada, J Schiefelbein, University of Michigan, Ann Arbor, USA, and T Sakai, Kyoto University, Japan.

Gravitropism in tip-growing cells of characean algae by G O WASTENEYS with M Braun and A Sievers, University of Bonn, Germany.

Interactions between the *BOT1* and *MOR1* genes of *Arabidopsis thaliana* by G O WASTENEYS and K SUGIMOTO with H Höfte, INRA, Versailles, France.

Microtubule dynamics in transgenic plants expressing GFP-tubulin by G O WASTENEYS and M C RASHBROOKE with T Hashimoto, Nara Institute of Science and Technology, Japan.

Microtubule orientation mechanisms in characean algae by G O WASTENEYS with Dr I Foissner, University of Salzburg, Austria.

Stomatal clustering in microtubule organization mutants of *Arabidopsis thaliana* by G O WASTENEYS with F Sack, Ohio State Univ., USA.

The basis for growth anisotropy in plants by G O WASTENEYS, K SUGIMOTO and A WHITTINGTON with T Baskin, University of Missouri, Columbia, USA.

The role of ethylene in cell division polarity and hypoxic stress responses by G O WASTENEYS and B E S GUNNING with H Kazama International Christian University, Japan and H Imaseki, Nagoya University, Japan.

Ultrastructural characterization of endomembrane mutants of *Arabidopsis thaliana* by G O WASTENEYS and M C RASHBROOKE with I Foissner, University of Salzburg, Austria and Dr T Sakai, Kyoto University, Japan.

Arabidopsis genes involved in cell wall synthesis by R E WILLIAMSON, J E BURN with A S Betzner, Groupe Limagrain, Canberra.

Characterisation of *Arabidopsis* radial swelling mutants by R E WILLIAMSON and J E BURN with T I Baskin, University of Missouri, USA.

Characterisation of the *rsw2* mutant of *Arabidopsis* by R E WILLIAMSON and J E BURN with H Höfte, INRA Versailles.

Functional assessment of cellulose synthase genes using the *Arabidopsis rsw1* mutant by R E WILLIAMSON, J E BURN and T Arioli with C P Joshi, Michigan Technological University, USA.

Plant myosins by WILLIAMSON RE with Prof R Ridge, International Christian University, Tokyo

and Prof T Shimmen, Himeji Institute of Technology, Japan.

Structure and dynamics of the endoplasmic reticulum in *Arabidopsis* by R E WILLIAMSON with R Ridge and Y Uozumi, International Christian University, Tokyo.

Visual Sciences

Processing speed and its relations with broad cognitive abilities by N BURNS with R Roberts, University of Sydney.

Pattern backward masking tasks and cognitive abilities by N BURNS with T Nettelbeck, University of Adelaide.

Glaucoma research by T MADDESS with I Goldberg, University of New South Wales.

Glaucoma research by T MADDESS with W L Severt, Medical College of Virginia, Richmond, USA.

Isotrigon texture perception by T MADDESS with Y Nagai, Kokushikan University, Tokyo, Japan.

The Apparent Fineness Illusion by T MADDESS with J J Kulikowski, UMIST, Manchester.

On candidate plasticity genes in insect brain by R MALESZKA with T Tully, Cold Spring Harbor, NY, USA, M Ramaswami, University of Arizona, Tucson and K Ito, Tokyo, Japan.

Trial Project on Myopia by I G MORGAN who was appointed coordinator of the Association of Pacific Rim Universities.

The localisation of somatostatin receptors in the chicken retina by I G MORGAN with L Helboe, Institute of Medical Anatomy, Copenhagen, Denmark.

The retinal dark-light switch and the pharmacological control of eye growth by I G MORGAN with M Boelen, La Trobe University.

The role of cholinergic mechanisms in the control of eye growth by I G MORGAN with B Stell, University of Calgary, Canada.

The molecular basis of the control of eye growth by I G MORGAN with N McBrien, Melbourne University.

The risk and causal factors in human myopia by I G MORGAN with P Mitchell, University of Sydney.

Honeybee navigation by M V SRINIVASAN and S W ZHANG with J Tautz and M Altwein, University of Würzburg, Germany.

Honeybee vision by M V SRINIVASAN and S W ZHANG with R Gadagkar, Centre for Ecological Sciences, Indian Institute of Science, Bangalore, India.

Biologically inspired robotics by M V SRINIVASAN, J CHAHL with S Venkatesh, Curtin University, WA.

Neuroethological Robotics by M V SRINIVASAN, J ZEIL, S W ZHANG and J S CHAHL with R Wehner, Universität Zürich, Switzerland, R Pfeiffer, ETH, Zürich, Switzerland, T Collett, T Osorio, P Husbands, University of Sussex, UK, and H Mallot, Max-Planck Institut für biologische Kybernetik, Tübingen, Germany, and R Beer, Case Western Reserve University, USA.

Honeybee navigation by M V SRINIVASAN, S W ZHANG with J Berry, K Cheng, Macquarie University, NSW.

Transduction mechanisms in CO₂ receptors of insects by G STANGE with T Keil, Max-Planck-Institut fuer Verhaltensphysiologie, Seewiesen, Germany.

Transduction mechanisms in CO₂ receptors of insects by G STANGE with F Marion-Poll, Department of Biology, Chair of Zoology, Institut National Agronomique Paris-Grignon, France and Research Associate at the Institut National de Recherches Agronomiques, Laboratory of Mediateurs Chimiques at Versailles, France.

Long-range interactions in the Barbers Pole Illusion by J M ZANKER with E Castet, Strasbourg, France.

Temporal resolution and hyperacuity in the human visual system by J M ZANKER with J P Harris, University of Reading, England.

Perceptual deformations of moving contours by J M ZANKER with M Fahle and T Quenzer, Tübingen University, Germany.

The integration of colour, luminance and motion in the human visual system by J M ZANKER with S Cropper, Melbourne University.

Honeybee learning by S W ZHANG and M V SRINIVASAN with M Lehrer, Zoologisches Institut, Universität Zürich, Switzerland.

Mechatronics by S W ZHANG and M V SRINIVASAN with J Yang, University of Science and Technology of China (USTC).

Visual perception in honeybees by S W ZHANG and M V SRINIVASAN with L Chen, Beijing Laboratory of Cognitive Science, University of Science and Technology in China, and Cognitive Brain Imaging Research Center, Chinese Academy of Sciences — Beijing Hospital.

Optical recording of neuronal activity in the honeybee antennal lobe by S W ZHANG, S HO and M V SRINIVASAN with K Kamino, Tokyo Medical and Dental University, Japan.

Chemistry, Research School of

Biochemical Reactions and Molecular Recognition

Cycloaddition reactions of nitrile oxides by S J BARROW, Dr C J EASTON, C K Y LEE and G J VUCKOVIC with Drs G P Savage and G W Simpson, Dunluna Pty Ltd and CSIRO Molecular Science, Melbourne.

Chemistry of scymnol by Dr C J EASTON and M GEBARA with J Broadbent, McFarlane Laboratories Pty Ltd; and Dr G W Simpson, CSIRO Molecular Science, Melbourne.

Supramolecular chemistry of cyclodextrins by Dr C J EASTON, J B HARPER, Dr A G MEYER, H ONAGI, D M SCHLIEBS and F TORTORELLA with S D Kean, Prof S F Lincoln, B L May and M A Sandow, University of Adelaide; and Dr H Yamamura, University of Nagoya, Japan.

Applications of carbon nanotubes in organic chemistry by Drs C J EASTON and A G MEYER with Drs L Dai and G W Simpson, CSIRO Molecular Science, Melbourne.

Free radical reactions of peptides and proteins by Dr C J EASTON and A MORTIMER with Dr M Davies, Heart Research Institute, University of Sydney.

Chlorine chemistry by Dr C J EASTON and J O'CONNELL with the Plastics and Chemicals Industries Association (PACIA); and Dr G W Simpson, CSIRO Molecular Science, Melbourne.

Lipid chemistry by Dr C J EASTON and L XIA with Dr D Rathjen, Peptech Ltd; and Profs A Ferrante

and A Poulos, Adelaide Medical Centre for Women and Children.

The development of new generation anti-infective agents by Prof M G BANWELL, Drs C F CRASTO, C J EASTON, T KAROLI, D R MARCH, M R NAIRN, M D OLDHAM and W YUE with Dr P J O'Hanlon, SmithKline Beecham, Harlow, UK; and Dr B Metcalf, SmithKline Beecham, King of Prussia, USA.

Biomolecular Simulations and Calculations

Free energy approximations in model proteins and polymers by Dr A E TORDA with Dr T Huber, ANUSF, ANU; and Drs F Müller-Plathe and D Reith, Max-Planck Institut für Polymerforschung, Mainz, Germany.

Protein sequence optimisation by Dr A E TORDA and A J COOTES with Dr P M G Curmi, University of New South Wales, Sydney.

Bio-Organic Chemistry

Bioactive compounds from Australian terrestrial invertebrates by Prof R W RICKARDS with Dr S C Trowell and C Zhao, CSIRO, Department of Entomology, Canberra.

Structure of an antifungal antibiotic from *Pseudomonas sp.* by Prof R W RICKARDS with Prof B J Deverall and Dr Y Huang, University of Sydney.

Metabolites of nematode-trapping fungi by Prof R W RICKARDS and M G ANDERSON with Dr E Lacey, Microbial Screening Technologies Pty Ltd, Kemps Creek.

Nematocides from fungi by Prof R W RICKARDS and M G ANDERSON with Dr E Lacey, Microbial Screening Technologies Pty Ltd, Kemps Creek; Novartis Animal Health Australasia Pty Ltd, Kemps Creek; and Novartis Produkte Inc, Basel, Switzerland.

Nematocides from actinomycetes by Prof R W RICKARDS, M G ANDERSON and J M ROTHSCHILD with Dr E Lacey, Microbial Screening Technologies Pty Ltd, Kemps Creek; Novartis Animal Health Australasia Pty Ltd, Kemps Creek; and Novartis Produkte Inc, Basel, Switzerland.

Non-antibacterial inducers of MLS resistance by Prof R W RICKARDS and A J HERLT with Dr J Maier, Northwestern University; and Dr J B McAlpine, Abbott Laboratories, Chicago, USA.

Novel juvenile hormones in flies by Prof R W RICKARDS, A J HERLT and J M ROTHSCHILD with Prof S W Applebaum, Department of Entomology, Hebrew University of Jerusalem, Rehovot, Israel.

Computational Quantum Chemistry

Ab initio studies of free radical polymerisation processes by Prof L RADOM with M Coote and Dr T Davis, University of New South Wales, Sydney.

Evaluation of accurate proton affinities and gas-phase acidities by Prof L RADOM with Dr B J Smith, Biomolecular Research Institute, Melbourne.

Nucleophilic substitution reactions by Prof L RADOM with Prof A Pross, Ben Gurion University, Israel; and T I Sølling, University of Copenhagen, Denmark.

Radical addition reactions by Prof L RADOM with Dr M W Wong, National University of Singapore; and Prof H Fischer, University of Zurich, Switzerland.

Structures and thermochemistry of alkali and alkaline earth oxides and hydroxides by Prof L RADOM with Prof A Schulz, Ludwig-Maximilians University of Munich, Germany; and Dr B J Smith, Biomolecular Research Institute, Melbourne.

Thermochemistry of free radicals by Prof L RADOM, C J PARKINSON and D M SMITH with Prof P M Mayer, University of Ottawa, Canada.

Carbene chemistry by Prof L RADOM and Dr A P SCOTT with Prof M S Platz, Ohio State University, Columbus, Ohio, USA.

Cleavage of molecular hydrogen by non-metallic catalysts by Prof L RADOM, Drs A P SCOTT and S SENGER with Prof B T Golding, University of Newcastle-upon-Tyne, UK.

Multireference G2 and G3 theories by Prof L RADOM and D M SMITH with Prof M S Gordon, Iowa State University, Ames, Iowa, USA; and T I Sølling, University of Copenhagen, Denmark.

Reactions catalysed by vitamin B₁₂ by Prof L RADOM and D M SMITH with Prof B T Golding, University of Newcastle-upon-Tyne, UK.

Coordination Chemistry and Inorganic Electrochemistry

Biological nitrogen fixation: the nitrogenase enzyme by Dr G A HEATH with Dr L L Martin, Flinders University of South Australia.

Cary spectrophotometer development programme by Dr G A HEATH with Dr A Marks, Varian-Australia Ltd, Melbourne.

Corrosion inhibitors by Dr G A HEATH with Prof D C Creagh, University of Canberra; and D L Hallam, Museum of Australia, Canberra.

Conservation treatments by Dr G A HEATH with G Bailey and A Wain, Treloar Centre, Australian War Memorial, Canberra.

Electroanalytical chemistry by Dr G A HEATH with Dr D G Humphrey, CSIRO, Melbourne; and Dr B D Yeomans, Australian Government Analytical Laboratory, Canberra.

Electrochemistry of dioximes and dithiocarbamates by Dr G A HEATH with Prof A M Bond, Monash University, Australia.

Molecular orbital calculations on transition metal clusters by Dr G A HEATH with Dr J E McGrady, University of York, UK.

NMR-spectroelectrochemistry by Dr G A HEATH with Dr P D Prenzler, Charles Sturt University.

Redox properties of biologically active disulfides by Dr G A HEATH with Dr C L L Chai, Department of Chemistry, ANU.

Rhenium and technetium compounds by Dr G A HEATH with Dr J Baldas, Australian Radiation Protection Laboratory, Melbourne.

Redox properties of binuclear halide complexes and metal-sulfur clusters by Dr G A HEATH with Dr R Raptis, University of Puerto Rico, San Juan.

Spectro-electrochemistry of the nitrogenase metal-sulfur cofactor by Dr G A HEATH with Dr S P Best, University of Melbourne; and Dr C J Pickett, Nitrogen Fixation Laboratory (John Innes Centre), Norwich, UK.

Spectro-electrochemistry of dimeric porphyrins by Dr G A HEATH with Dr D P Arnold, Queensland University of Technology, Brisbane.

Disordered Materials

Diffuse scattering in non-stoichiometric apatites by Dr A G CHRISTY with P Alberius-Hennig and Prof S A Lidin, University of Stockholm, Sweden.

Petrographic observations on sediment from rural and urban canals in the midlands by Dr A G CHRISTY with Drs D J Dodd and J Large, University of Nottingham, UK; Drs N J Fortey, A E Milodowski and M Styles, British Geological Survey, Keyworth, UK.

Synthesis and structural characterisation of Beryllian Sapphirines by Dr A G CHRISTY and Dr Y TABIRA with Prof E S Grew, University of Maine, Orono, USA; and Dr A Hölscher and Prof W F Schreyer, Ruhr-Universität Bochum, Germany.

Disorder in 1:1 adducts of hexamethylenetetramine with azelaic acid by Dr T R WELBERRY with Drs M Gardon and K J Schenk, Université de Lausanne, Switzerland.

High energy diffuse X-ray scattering by Dr T R WELBERRY with Dr B D Butler, National Institute of Standards and Technology (NIST), Boulder, USA; and Drs D R Haeffner and P L Lee, Argonne National Laboratory, Argonne, Illinois, USA.

Strain effects in disordered crystals by Dr T R WELBERRY with Dr B D Butler, NIST, Boulder, Colorado, USA.

Inorganic Stereochemistry and Asymmetric Synthesis

Diastereoselectivity in Group 11 complexes of Pfaltz ligands by Dr S B WILD with Dr J Aldrich-Wright, University of Western Sydney.

Dinitrogen-, nitride- and organoimide-molybdenum and -tungsten complexes containing chiral phosphines by Dr S B WILD with Dr C Pickett, John Innes Centre, Norwich, UK.

Group 11 complexes of pyridyl-phosphine ligands as anti-tumour agents by Dr S B WILD with Dr S Berners-Price, Griffith University.

Microbial phosphonate uptake and metabolism: enlisting microorganisms to deliver antimicrobials effectively by Dr S B WILD with Dr G L Mendz, School of Biochemistry and Molecular Genetics, University of New South Wales.

New ligands for oxophilic metals: applications in catalysis by Dr S B WILD with Prof K Cavell, Universities of Tasmania and Cardiff.

Laser and Optical Spectroscopy

Chemiluminescence and photoluminescence of Rubisco by Dr E R KRAUSZ with Prof J Andrews, RSBS, ANU; Dr R Lilley, University of Wollongong, NSW; and Dr H Riesen, ADFA.

Lanthanide complex spectroscopy by Dr E R KRAUSZ with Dr M Gerloch, University of Cambridge, UK.

Magneto-optic spectroscopy of plant photosystem by Dr E R KRAUSZ with Dr R Pace, Department of Chemistry, ANU; and S Peterson, University of Lund, Sweden.

Spectroscopy of porphyrins, phthalocyanines and the plant photosystem by Dr E R KRAUSZ with Dr B Williamson, University of Christchurch, NZ.

Upconversion systems by Dr E R KRAUSZ with Drs S Lüthi and M Riley, University of Queensland.

Liquid State Chemical Physics

A localised conjugate fluctuation theorem as applied to planar Poiseuille flow by Dr G S D AYTON and Prof D J EVANS with Dr D J Searles, University of Queensland.

Dynamic mobility in concentrated suspensions by Dr J ENNIS-KING with Drs S L Carnie and A Shugai, University of Melbourne.

Measurements of surface forces due to adsorbed polyelectrolytes by Dr J ENNIS-KING with Dr M Gee, University of Melbourne.

Surface forces due to polymers and polyelectrolytes by Dr J ENNIS-KING with Dr B Jönsson, Lund University, Sweden.

Implications of chaos for thermophysical properties by Prof D J EVANS with Prof E G D Cohen, Rockefeller University, New York; and Drs D J Isbister and F Zhang, Australian Defence Force Academy (ADFA), University of New South Wales, Canberra.

Molecular dynamics algorithm for chain molecular fluids by Prof D J EVANS with Dr L Lue, National Institute of Standards and Technology (NIST), Boulder, USA.

The number dependence of the maximum Lyapunov exponent in one, two and three Cartesian dimensions by Prof D J EVANS with Dr D J Isbister, ADFA, University of New South Wales, Canberra; and Dr D J Searles, University of Queensland.

Thermal conductivity in the critical region by Prof D J EVANS with Prof H J M HANLEY, RSC/NIST; Dr D J Searles, University of Queensland; Dr S Murad, University of Illinois, Chicago, USA; and Dr K P Travis, Imperial College, London U.

Transport coefficients of dense inhomogeneous fluids: a comparison of nonequilibrium molecular dynamics simulation and statistical mechanical theory predictions by Prof D J EVANS with Prof K E Gubbins, North Carolina State University, Raleigh, USA; Dr B D Todd, CSIRO Division of Molecular Science, Melbourne; and Dr K P Travis, Imperial College, London, UK.

Applications of general temperature expressions by Prof D J EVANS, Dr G S D AYTON, O G JEPPI with Dr B D Butler, NIST, Boulder, USA.

Nonequilibrium Brownian dynamics by Prof D J EVANS and Dr J ENNIS-KING with Prof I Snook, Drs P J Davis and M McPhie, RMIT, Melbourne.

Mass Spectrometry

Structures of bioactive natural products from the genus *Hortonia* by Dr J K MACLEOD with Prof B M R Bandara, University of Peradeniya, Sri Lanka.

Structures of biologically active natural products by Dr J K MACLEOD with Dr P B Oelrichs, National Research Centre for Environmental Toxicology, Brisbane.

New Silicate Materials

Selective gas adsorption of metal exchanged clay mineral derivatives by Dr J G THOMPSON and A MELNITCHENKO with Dr C Volzone, Centro de Tecnologia de Recursos Minerales y Cerámica, Buenos Aires, Argentina.

Nuclear Magnetic Resonance

Multidimensional NMR studies of chaperone proteins by Dr M A KENIRY with A/Prof J Carver, University of Wollongong.

Nuclear magnetic resonance studies of the association of spermine with the estrogen receptor DNA-binding domain by Dr M A KENIRY with Prof C Benz and Dr G Scott, University of California, San Francisco, USA.

Structural studies of drug-DNA complexes and novel DNA structures by Dr M A KENIRY with Prof R H Shafer, University of California, San Francisco, USA.

Structural and functional studies of analogues of human insulin-like growth factor-I by Dr M A KENIRY and L G LAAJOKI with A/Prof J Carver, University of Wollongong, NSW; Drs G Francis and S Milner, Cooperative Research Centre for Tissue Australia Growth and Repair, Adelaide; and Dr J C Wallace, University of Adelaide.

Organic Synthesis

Biosynthetic, structural and metabolic studies on gibberellins by Prof L N MANDER with Dr M Talon, Department of Citriculture, IVIA, E-46113, Moncada, Valencia, Spain; and Dr J Zeevaert, MSU-DOE Plant Research Laboratory, Michigan State University, USA.

Biosynthetic, structural and metabolic studies on gibberellins by Prof L N MANDER with Prof J MacMillan and Dr P Hedden, Long Ashton Research Station, Bristol, UK.

Structural and biosynthetic studies on anthrangiogens from fern gametophytes by Prof L N MANDER with Dr H Yamane, Biotechnology Research Center, University of Tokyo, Japan.

Structural and biosynthetic studies on anthrangiogens from fern gametophytes by Prof L N MANDER with Dr J Banks, Department of Botany and Plant Pathology, University of Purdue, USA.

Structural and biosynthetic studies on anthrangiogens from fern gametophytes by Prof L N MANDER with Dr J Nester, Department of Biological Sciences, Sam Houston State University, Texas, USA.

Studies on growth inhibition by Prof L N MANDER and Dr G ADAMSON with Drs L T Evans and R W King, CSIRO, Division of Plant Industry; and Prof R P Pharis, University of Calgary, Canada.

Studies on gibberellin receptors by Prof L N MANDER, Dr J T BLANCHFIELD and S K COOK with Dr P M Chandler, CSIRO Division of Plant Industry.

Biosynthetic, structural and metabolic studies on gibberellins by Prof L N MANDER, S K COOK and B TWITCHIN with Drs M Koshioka and M Nakayama, National Research Institute of Vegetables, Ornamental Plants and Tea, Ministry of Agriculture, Forestry and Fisheries, Japan.

Biosynthetic, structural and metabolic studies on gibberellins by Prof L N MANDER and B TWITCHIN

with Dr V M Sponsel, Division of Life Sciences, University of Texas, San Antonio, Texas, USA.

Biosynthetic, structural and metabolic studies on gibberellins by Prof L N MANDER and B TWITCHIN with Prof O Junntila, Department of Plant Physiology and Microbiology, University of Tromsø, Norway.

Biosynthetic, structural and metabolic studies on gibberellins by Prof L N MANDER and B TWITCHIN with Prof R P Pharis, Department of Biology, University of Calgary, Canada.

Biosynthetic, structural and metabolic studies on gibberellins by Prof L N MANDER and B TWITCHIN with Dr T Lange, Pflanzenphysiologisches Institut und Botanischer Garten, Universität Göttingen, Germany.

Influence of gibberellins on light stimulation of germination in Western Australian species by Prof L N MANDER and B TWITCHIN with Dr J Plummer, Department of Horticultural Science, University of Western Australia.

Studies on fruit development by Prof L N MANDER and B TWITCHIN with Dr Y Ben-Tal, Ministry of Agriculture, The Volcani Center, Bet-Dagan, Israel.

Studies on fruit development by Prof L N MANDER and B TWITCHIN with Dr P S Blake, Horticulture Research International, East Malling, UK.

Studies on the genetics of *Pisum* by Prof L N MANDER and B TWITCHIN with Prof J B Reid and Dr J J Ross, Department of Plant Science, University of Tasmania.

Organotransition Metal Chemistry

Arene ruthenium complexes by Prof M A BENNETT with Prof P Salvadori and Dr P Pertici, Università di Pisa, Italy.

Arene ruthenium complexes containing sulfurdonor ligands by Prof M A BENNETT with Prof L-Y Goh, National University of Singapore.

Dinuclear gold complexes by Prof M A BENNETT with Dr S K Bhargava, Department of Applied Chemistry, RMIT, Melbourne.

NMR studies of ligand replacement reactions of ruthenium acetylacetonate complexes by Prof M A BENNETT with Prof B E Mann, University of Sheffield, UK.

Theoretical studies of insertions into nickel-carbon bonds by Prof M A BENNETT and Dr E WENGER with Dr S A Macgregor, Heriot-Watt University, Edinburgh, UK.

Theoretical studies of mixed metal metallo-carbohedrenes by Prof M A BENNETT and Dr E WENGER with Prof I G Dance, University of New South Wales.

Polymers and Soft Condensed Matter

Semiflexible Si-based polymers on Si surfaces by Dr E M SEVICK with Dr Y Y Suzuki, NTT Basic Research Laboratories, Tokyo, Japan.

Protein Crystallography and Engineering

Structure function studies with esterases by Dr D L OLLIS with Dr J Oakshot, Entomology, CSIRO, Canberra.

Structural studies of the PII protein by Drs D L OLLIS and P D CARR with Dr S G Vasudevan, James Cook University, Queensland.

A light responsive redox regulated enzyme: a new MDH structure by Drs D L OLLIS, P D CARR and D VERGER with Dr A Ashton, CSIRO, Division of Plant Industry, Canberra.

Structure function studies with plant malate dehydrogenases by Drs D L OLLIS, P D CARR and D VERGER with Dr A Ashton, CSIRO, Division of Plant Industry, Canberra.

The structure of a transcriptional regulator by Drs D L OLLIS, P D CARR and D VERGER with Dr B Davidson, University of Melbourne, Victoria.

Protein Synthesis and Evolution

Cleavage of DNA by chromium(V) complexes by Dr N E DIXON with Prof P A Lay, School of Chemistry, University of Sydney.

Geminivirus DNA replication mechanisms by Dr N E DIXON with Drs D Pountney and A Rezaian, CSIRO Division of Plant Industry, Glen Osmond, SA.

Radiolabelled antibodies for cancer diagnosis and treatment by Dr N E DIXON and N DI BARTOLO with Prof A M Sargeson, Department of Chemistry, ANU; and Dr S Smith, Australian Nuclear Science and Technology Organization, Sydney.

Expression and isolation of the *Bacillus subtilis* DnaC helicase and DnaI proteins by Drs N E DIXON

and S E BROWN with Dr J M Guss and Prof R G Wake, Department of Biochemistry, University of Sydney.

NMR structures of the DnaC protein and the N-terminal domain of DnaB helicase by Drs N E DIXON and S E BROWN with Prof G Otting and Dr J Weigelt, Department of Medical Biochemistry and Biophysics, Karolinska Institutet, Stockholm.

Structures and functions of *Escherichia coli* replisomal proteins by Drs N E DIXON and S E BROWN and S HAMDAN with Prof G Otting, Karolinska Institute, Stockholm; and Drs C M Elvin, K Kongsuwan, P Jennings and G Wijffels, CSIRO Division of Molecular Sciences, Brisbane.

Structure of the *Escherichia coli* DnaB helicase protein and the DnaBDnaC complex by Drs N E DIXON, S E BROWN, P M SCHAEFFER and N K WILLIAMS with Prof J M Carazo, M Barcena and Dr L E Donat, Centro Nacional de Biotecnología, Universidad Autónoma, Madrid.

Structure and mechanism of action of *Escherichia coli* proline aminopeptidase by Dr N E DIXON, P E LILLEY and Dr P M SCHAEFFER with Prof H C Freeman and Dr J M Guss, Department of Biochemistry, University of Sydney.

Solid State Inorganic Chemistry

A synchrotron X-ray study of the zirconate pyrochlore $\text{La}_2\text{Zr}_2\text{O}_7$ by Drs Y TABIRA and R L WITHERS with Dr T Yamada, National Industrial Research Institute, Nagoya, Japan.

A superspace approach to cation-deficient hexagonal perovskite-related phases by Dr R L WITHERS with Dr L Elcoro and Prof J M Perez-Mato, Universidad del País Vasco, Bilbao, Spain.

Ferroelastic domains in tetramethylammonium cadmium trichloride by Dr R L WITHERS with Profs G Madariaga and I Peral, Universidad del País Vasco, Bilbao, Spain.

TEM studies of low temperature ordering in $\text{Cu}_x\text{V}_4\text{O}_{11}$ by Dr R L WITHERS with Drs P Millet and P Rozier, CEMES/CNRS, Toulouse, France.

Incommensurate Cu/Co ordering in ternary transition metal chalcogenides by Drs R L WITHERS and L NORÉN with Dr R Berger, University of Uppsala, Sweden.

Ionic conductivity and the inherent displacive structural flexibility of layered and tunnel $\text{M}_x\text{V}_2\text{O}_5$

framework structures by Drs R L WITHERS and Y TABIRA with Dr P Millet, CEMES/CNRS, Toulouse, France.

Solid State Molecular Science

Low temperature binding of ceramics by Dr S A HOLT with Drs J Bartlett, C Burke, J N Watson and J Woolfrey, ANSTO.

Bonding in transition metal complexes by Dr P A REYNOLDS with Prof B N Figgis and Dr A N Sobolev, University of Western Australia.

Neutron diffraction studies of transition metal complexes by Dr P A REYNOLDS with Dr A J Schultz, Argonne National Laboratory, Chicago, USA.

Experimental electron densities in transition metal complexes by Dr P A REYNOLDS with Dr B B Iversen and Lektor F K Larsen, University of Aarhus, Denmark.

Early stages of zeolite crystallisation by Prof J W WHITE with Prof C R A Catlow, Royal Institution, London, UK; and Dr J N Watson, Australian Nuclear Science and Technology Organisation (ANSTO), Lucas Heights.

Kinetics of template action in silicalite synthesis by Prof J W WHITE with Dr L Iton, Argonne National Laboratory, Chicago, USA; and Dr J N Watson, ANSTO.

Microphase separation in paraffin crystals by Prof J W WHITE with Dr R Snyder, University of California, Berkeley, USA.

Millisecond X-ray reflectometer for ChemMatCARS by Prof J W WHITE with Dr R Garrett, ANSTO; and Dr J Viccaro, University of Chicago, USA.

Neutron reflectivity and small angle scattering from monomolecular polymer particles and lattices by Prof J W WHITE with Dr H de Bruyn and Prof R Gilbert, University of Sydney.

Nucleation and growth of silicalite by Prof J W WHITE with Dr J N Watson, ANSTO.

Nucleation of alumino silicate gels by Prof J W WHITE with Dr P Southern, ANSTO.

Structure of electrically conducting polymers by Prof J W WHITE with Dr I Jamie and Prof L Kane-Maguire, University of Wollongong, NSW.

Structure of high internal phase emulsions by Prof J W WHITE with Dr E P Gilbert, Argonne National Laboratory, Chicago, USA; and Drs R Goodridge and D E Yates, Orica Australia.

Structure of polymer latex solutions by Prof J W WHITE with Dr H de Bruyn and Prof R Gilbert, University of Sydney.

Structure of polymer surfactant films by Prof J W WHITE with Dr J Penfold, Rutherford Appleton Laboratory, Oxford, UK.

Structure of templated silicate films by Prof J W WHITE with Dr M Trau, University of Queensland.

Template distribution function in modified silicate gels by Prof J W WHITE with Drs L Iton, J Richardson and F Trouw, Argonne National Laboratory, Chicago, USA.

Conformation of proteins at interfaces by Prof J W WHITE and Dr S A HOLT with S Poon, University of Melbourne.

X-ray reflectometry studies of contact lens coatings for extended wear by Prof J W WHITE and Dr S A HOLT with C Fong, CSIRO Molecular Science, Melbourne.

Dendrimer and polystyrene surfactant structure by Prof J W WHITE, G KIRTON and Dr P A REYNOLDS with Dr C J Hawker, IBM Research Laboratories, Almaden, California, USA.

Structure of inorganic polymers in solution by Prof J W WHITE and Dr P A REYNOLDS with Dr J Maridable, University of New South Wales.

The following collaborators visited the group during 1999 to conduct X-ray reflectometry experiments.

Dr B Saunders and E Daly, University of Adelaide; Dr J Watson and Dr V Luca, ANSTO; C Garvey, Monash University; Dr G Edwards, University of Queensland; L Tran, University of Queensland.

Synthesis and Mechanism

The development of novel carbohydrate-like drugs by Prof M G BANWELL, Drs D ARMITT and L LIU with Dr R Don, Progen Industries Ltd, Brisbane; and Dr C Freeman and Prof C Parish, JCSMR.

The development of new anti-infective agents by Prof M G BANWELL, Drs C F CRASTO, C J EASTON, T KAROLI, D R MARCH, M R NAIRN, M D OLDHAM and W YUE with Dr P J O'Hanlon SmithKline

Beecham, Harlow, UK; and Dr B Metcalf, SmithKline Beecham, King of Prussia, USA.

The total synthesis of sialic acid analogues by Prof M G BANWELL and C DE SAVI with Dr K Watson, Biota Chemistry Laboratories, Department of Chemistry, Monash University, Australia.

Biotransformations by Prof M G BANWELL and R LONGMORE with Dr G Whited, Genencor International Inc, Palo Alto, California, USA.

Studies directed towards the total synthesis of the spinosyn class of insecticides by Prof M G BANWELL and Dr B KELLY with Prof B Jarrott, Department of Pharmacology, Monash University; and Drs A Knill and G W Simpson, CSIRO Molecular Science, Melbourne.

The total synthesis of the phytotoxic polyketide herbicide herboxidiene by Prof M G BANWELL and R PREMRAJ with Dr G W Simpson, CSIRO Molecular Science, Melbourne.

Combinatorial synthesis of potential anti-mitotic drugs by Prof M G BANWELL and D WONG with Dr A Bray, Chiron Technologies Pty Ltd, Clayton, Victoria.

Theoretical Chemical Physics

Could carbon cluster anions, C_n^- , be responsible for the DIBs? by Dr R P A BETTENS with Drs E Herbst and D Ruffe, Ohio State University, USA.

Exact quantum reaction dynamics on highly accurate *ab initio* potential energy surfaces by Dr M A COLLINS with Dr D H Zhang, National University of Singapore.

Potential energy surfaces for quantum reactive scattering by Dr M A COLLINS with Dr D H Zhang, National University of Singapore.

The microwave spectrum and structural dynamics of the cyclic dipeptide 2,5-diketopiperazine by Dr R P A BETTENS with Dr F L Bettens, Prof R D Brown, Drs R Champion and P D Godfrey, Monash University.

The mm-wave spectrum of pyridine and five excited vibrational states by Dr R P A BETTENS with Drs S Albert and F L Bettens and Prof F C DeLucia, Ohio State University, USA.

**Information Sciences and Engineering,
Research School of**

Computer Sciences Laboratory

Techniques for Combining Learning Systems for Regression and Density Estimation by Dr P BARTLETT with Dr M Frean and Prof T Downs, University of Queensland.

Data Segmentation by Dr P BARTLETT with Dr A Kowalczyk, Telstra Research Laboratories, Melbourne, VIC.

Neural Network Learning by Dr P BARTLETT with Dr M Anthony, London School of Economics and Political Science, London, UK.

Complexity of Learning by Dr P BARTLETT with Dr S Ben-David, Israel Institute of Technology (Technion), Haifa, Israel.

Uniform Convergence by Dr P BARTLETT with Dr G Lugosi, Pompeu Fabra University, Barcelona, Spain.

Integrating the ATP System CODE with the TPTP by Dr M FUCHS with Dr G Sutcliffe, James Cook University.

Concurrent Constraint Programming and Display Logic by Dr R GORÉ with Dr F Fages, Departement de Informatique, Ecolé Normale Supérieure, Paris, France.

Extending Display Calculi by Dr R GORÉ with Dr S Demri, Laboratoire LEINBIZ, CNRS, Paris, France.

Proof Theory of Nonclassical Logics by Dr R GORÉ with Prof Hiroakira Ono, Japan Advanced Institute of Science and Technology, Kanazawa, Japan.

Computational Interpretations of Intuitionistic Tense Logics by Dr R GORÉ with Dr J Goubault-Larrecq, GIE Dyade, Paris, France.

Propositional Logics on the Computer by Dr R GORÉ with Prof G Jaeger, Institute of Applied Mathematics, University of Berne, Switzerland.

Agent-based Interactive Mobile-hot Computing by Prof E V KRISHNAMURTHY with Prof Sajal Kumar Das, University of North Texas, Denton, USA.

Quantum, Biological and Molecular Computing Paradigms by Prof E V KRISHNAMURTHY with Prof M Conrad, Wayne State University, Detroit, USA.

Quantum, Fuzzy and Probabilistic Machines by Prof E V KRISHNAMURTHY with Prof A Di Nola, University of Naples, Naples, Italy.

Knowledge Representation and Machine Learning by Prof J LLOYD with Dr C Giraud-Carrier and Dr A Bowers, University of Bristol, UK.

Points at the Intersection of Relevant and Combinatory Logics by Em Prof R MEYER with Assoc Prof M Bunder, University of Wollongong.

Publication of Mitchell and Delbridge Australian English Speech Data by Dr B MILLAR with Dr B Turner and Dr J Vonwiller, University of Sydney.

Joint Audio-Visual Evidence in Speech by Dr B MILLAR with Dr G Bailly, Université Stendhal, Grenoble, France, Dr J Robert-Ribes, Mathematical and Information Sciences, CSIRO, Sydney.

Web-Accessible Descriptive Schemes for Spoken Language Data by Dr B MILLAR with Dr T Altosaar, Helsinki University of Technology, Helsinki, Finland.

Modelling of Audio-Video Characterisation of the Speaking Face by Dr B MILLAR and R GOCKE with Prof Cheol-Woo Jo, Changwon National University, Changwon, Korea.

Combinatorial Optimisation and Decision Problems by Dr J SLANEY with Dr S Thiébaux and Dr P Kilby, CSIRO Mathematical and Information Sciences, Canberra.

Systems Engineering

Channel Equalization by Prof B ANDERSON with Dr T Endres, Dr R Johnson Jnr, School of Electrical Engineering, Cornell University, USA.

Hf Control and Robot Control by Prof B ANDERSON with Prof T Mita, Tokyo Institute of Technology, Japan.

Identification and Robust Control I by Prof B ANDERSON with Prof M Gevers, CESAME, Université Catholique de Louvain, Louvain-la-Neuve, Belgium.

Adaptive Control by Prof B ANDERSON with Prof S Morse, Yale University, USA.

Identification by Prof B ANDERSON with Prof I Landau, Laboratoire d'Automatique de Grenoble, France.

Identification and Adaptive Control by Prof B ANDERSON with Prof M Gevers, CESAME, Université Catholique de Louvain, Louvain-la-Neuve, Belgium.

Sugar Dryer Modelling and Machine Hydraulic Condition Monitoring by R R BITMEAD with R Peirce, CSR Sugar Mills Group.

Audio Compression for Surveillance by R R BITMEAD with G Wise, Australian Federal Police.

Traction Control by R R BITMEAD with Dr A Connolly, General Electric Corporate Research and Development.

Combined Modelling and Control by R R BITMEAD with Prof M Gevers, CESAME, Université Catholique de Louvain, Louvain-la-Neuve, Belgium.

Fake Algebraic Riccati Techniques by R R BITMEAD with Prof M Poubelle, Guadaloupe.

Nonlinear Process Modelling and Applications by R R BITMEAD with Dr S M Savaresi, Politecnico di Milano, Italy.

Positive Systems by F De BRUYNE with Dr L Farina and Dr L Benvenuti, Università di Roma "La Sapienza", Rome, Italy.

Model Validation for Control by F De BRUYNE with Prof M Gevers, Mr Benoît Codrons and Dr M De Wan, CESAME, Université Catholique de Louvain, Louvain-la-Neuve, Belgium.

Nonlinear Control by F De BRUYNE with J Sjöberg, Department Signals & Systems, Chalmers University, (Göteborg, Sweden) Prof M Gevers, CESAME, Université Catholique de Louvain, Louvain-la-Neuve, Belgium).

Performance Analysis of Queues in Communication Networks by S DEY with Prof Lang White, Department of Electrical Engineering, University of Adelaide.

Change Detection in Teletraffic Models by S DEY with R Jana, DSTO, Canberra.

Combined Compression and Classification of Multiscale Acoustic Data with Learning Vector Quantization by S DEY with Prof J S Baras, Institute for Systems Research, University of Maryland, College Park, USA.

Fundamental Properties of robust estimators by S DEY with Dr D Charalambous, Department of

Electrical Engineering, McGill University, Montreal, Canada.

Stochastic Control by J B MOORE with Dr Xunyu Zhou, Dr A Lim and Dr M Aitrani, Chinese University of Hong Kong, Hong Kong.

Autonomous Submersible Robot by D WETTERGREEN/A ZELINSKY with Prof H Durrant-Whyte, University of Sydney, BEI Systron Donner Wind River Systems.

Fast Robot Learning by A ZELINSKY with K Ward, University of Wollongong.

Human-Robot Cooperative Systems by A ZELINSKY with T Edwards, ACSys, Canberra.

Human-Machine Interaction by S ROUGEAUX/A ZELINSKY with Volvo ABB, Sweden.

Telecommunications Engineering

Robustness of Optimal Detectors in Wireless Channels to a Channel Autocovariance Mismatch by Dr B HART with Dr I Collings, University of Sydney.

Writing four book chapters on Equalisation for Wireless Channels by Dr B HART with Prof D Taylor, University of Canterbury, Christchurch, New Zealand, Dr G Vitetta, University of Modena, Italy, Dr A Mammela, VTT Electronics, The Technical Research Centre of Finland.

Data Detection and Channel Estimation in Wireless Channels by Dr B HART with Prof S Pasupathy, University of Toronto, Canada.

Sparse Channel Sequence Estimation by Dr R KENNEDY with Dr N McGinty, Defence Science and Technology Organisation, Adelaide.

Sparse Channel Sequence Estimation by Dr R KENNEDY with Dr P Hoehner, German Aerospace Centre, Germany.

Quantizer Feedback Structures by Dr R KENNEDY with Prof Zhing Ding, Auburn University, Auburn, USA.

Blind Equalisation by Dr R KENNEDY with Prof Zhi Ding, Iowa University, Iowa, USA, Prof I Fijalkow, Équipe Traitement des Images et du Signal, Université de Cergy-Pontoise, Paris, France.

Nonlinear Channel Estimation by Dr R KENNEDY with Prof J P LeBlanc, New Mexico State University, Las Cruces, USA.

Improved Digital Television, Phase 1 and 2 by Dr R KENNEDY, Dr B HART, Dr P RAPAJIC with Prof R Johnson and Prof W Sethares, Cornell University, Ithaca, New York, USA.

Random Access Techniques for Wireless Digital Networks by Dr P RAPAJIC with Assoc Prof B Vucetic, University of Sydney.

Random Signature CDMA Adaptive MMSE DFE Receiver by Dr P RAPAJIC with Prof M Honig, Northwestern University, Evanston, USA.

Mismatch Filters for Frequency Hopping Radar Applications by Dr P RAPAJIC with Dr A Zejak, University of Belgrade, Yugoslavia.

Medical Research, The John Curtin School of

Immunology and Cell Biology, Division of

Determination of genetic factors responsible for multi-drug resistance in small cell lung carcinoma by Dr J BANYER with Dr R Davey, Clinical Oncology, Royal North Shore Hospital, Sydney, NSW.

Genetic differences between subsets of human NK cells by Dr J BANYER with Dr H Warren, Canberra Hospital, Canberra, ACT.

Identification and characterisation of immunoregulatory genes from dendritic cells by Drs J. BANYER and A HAPPEL with Drs J Tite and M Goulden, Glaxo-Wellcome Ltd, Stevenage, UK.

Comparative analysis of genetic determinants characteristic of ex vivo isolated dendritic cells and myb-transformed MTHC-derived dendritic cells by Drs J BANYER and A HAPPEL with Dr I Caminischi and Prof K Shortman, The Walter and Eliza Hall Institute, Melbourne, VIC and Drs J Tite and M Goulden, Glaxo-Wellcome Ltd, Stevenage, UK.

Mechanisms of somatic variation of V genes by Prof R V BLANDEN and Dr C BRUCE with Dr E J Steele, University of Wollongong, NSW.

Evolutionary origin of germline V genes in the immune system by Prof R V BLANDEN and Dr C BRUCE with Dr E J Steele, University of Wollongong, NSW and Dr G Weiller, Research School of Biological Sciences, ANU.

The role of nitric oxide in the pathogenesis of falciparum malaria by Dr I A CLARK with Wellcome Trust Centre, Blantyre, Malawi; Dr T Taylor, Dept of Internal Medicine, College of Medicine, Michigan State University, USA; Dr R Carr, St Thomas's Hospital, London, UK; Dr K Rockett, Dept of Paediatrics, University of Oxford, John Radcliffe Hospital, Oxford, UK.

Adjuvant activity of gamma inulin by Dr P COOPER with Dr P Goldwater, Adelaide Children's Hospital, Adelaide, SA; Prof I Frazer and Dr R Tindle, Princess Alexandra Hospital, Brisbane, Qld; Dr R Gupta, Massachusetts Public Health Biological Laboratories, Boston, MA, USA; Dr F Vogel, AIDS Vaccine Research Branch, NIH, Bethesda, USA; Dr P Fuentes, Universitat Autònoma de Barcelona, Spain; Dr G Guillen, Centre for Genetic Engineering & Biotechnology, Havana, Cuba; Dr D O Willenborg, Neurosciences Research Unit, Canberra Hospital, ACT; Dr I Pinchasi, TEVA Pharmaceutical Industries, Israel; Dr N Garçon, Smithkline Beecham, Rixensart, Belgium; Prof G Tannock, Royal Melbourne Institute of Technology, Melbourne, VIC; Dr E Depla, Innogenetics NV, Ghent, Belgium; Dr P Birk, M & E Biotech A/S, Horsholm, Denmark.

The role of nitric oxide in autoimmune disease by Dr W B COWDEN with Dr K Rockett, Institute of Molecular Medicine, John Radcliffe Hospital, Oxford, UK.

The role free radicals in vascular disease by Dr W B COWDEN with Dr R Stocker, The Heart Research Institute, Sydney, NSW.

The activity and mechanism of action of novel glycoprotein processing inhibitor anti-rejection agents by Dr W B COWDEN with Prof A Hibberd, Hunter Valley Hospital Transplant Unit, Newcastle, NSW.

Novel approaches to immunisation by Dr W B COWDEN with Dr A Ramsay, Newcastle University, NSW.

Analysis of the role of interleukin-3 and CSF-1 in synergistic signalling by targetting of their receptor genes by Dr A J HAPPEL with Prof E R Stanley, Albert Einstein College of Medicine, New York, USA.

Targetted disruption of the c-fms gene by Dr A J HAPPEL with Prof E R Stanley, Albert Einstein College of Medicine, New York, USA.

Mechanism of cell death in Ross-River virus-infected striated muscle by Dr A J HAPPEL with Dr Brett Lidbury, University of Canberra, ACT.

Differentiation of myb-transformed haematopoietic progenitor cells by Drs A J HAPPEL and J BANYER with Assoc Prof T Gonda, Hanson Centre for Cancer Research, Adelaide, SA.

Isolation of Ross-River virus resistance genes from macrophage "RAW" cells by Drs A J HAPPEL and J BANYER with Dr B Lidbury, University of Canberra, Canberra, ACT.

Cloning and characterisation of a novel family of tetraspan molecules by Dr M Hulet with Dr M Cancilla, The Walter and Eliza Hall Institute of Medical Research, Melbourne, VIC; Dr T Luft, Ludwig Institute for Cancer Research, Melbourne, VIC; Dr M Hogarth, Austin Research Institute, Melbourne, VIC; Dr P Dacey and Dr M Smyth, Austin Research Institute, Melbourne, VIC; Dr S Russell, Austin Research Institute, Melbourne, VIC; Dr L Baker and Prof G Sutherland, Women's and Children's Hospital, Adelaide, SA.

Structure and function of Fc Receptors by Dr M HULETT with Drs M Hogarth and B Wines, Austin Research Institute, Melbourne, VIC.

Protective immune responses in mice vaccinated with recombinant vectors expressing flavivirus genes by Dr M LOBIGS with Drs R A Hall and I S Mackenzie, Department of Microbiology, University of Queensland, Brisbane, QLD.

Selectivity in peptide translocation by Syrian hamster TAP by Dr M LOBIGS with Drs F Momburg and G J Hämmerling, German Cancer Research Center, Heidelberg, Germany.

Modulation of the MHC class I antigen processing and presentation pathway by flaviviral infection by Dr M LOBIGS with Dr F Momburg, German Cancer Research Center, Heidelberg, Germany.

Structural polyprotein processing mutants of yellow fever virus, 17D, generated from an infectious cDNA clone by Dr M LOBIGS with Prof C M Rice, Washington University School of Medicine, St. Louis, USA.

Oral induced T cell tolerance by Dr A MÜLLBACHER with Dr J Chin, Elizabeth MacArthur AG Institute, NSW Department of Agriculture, Camden, NSW.

The role of granzyme A in fungal infection by Dr A MÜLLBACHER with Dr R Ashman, Oral Biology and Pathology, University of Queensland, Brisbane, QLD.

The role of granzymes and perforin in cytomegalovirus infections by Dr A MÜLLBACHER with Dr S Landolfo, Department of Public Health, Medical School, Turin, Italy.

The role of granzymes in herpes virus infection by Dr A MÜLLBACHER with Drs R Pereira and A Simmons, Herpes Research, Infectious Diseases Laboratories, Institute of Medical & Veterinary Science, Adelaide, SA.

The role of T cell serine proteases in cell cytotoxicity and viral pathogenesis by Drs A MÜLLBACHER and M LOBIGS with Dr M Simon, Max Planck Institute für Immunbiologie, Freiburg, Germany.

Allorecognition by Dr A MÜLLBACHER and M LOBIGS with Dr R Langman, Conceptual Immunology, The Salk Institute, La Jolla, CA, USA.

The role of MHC-class I in antigen presentation by Drs A MÜLLBACHER, M LOBIGS and Prof R V BLANDEN with Dr J Yewdell, Viral Immunology Laboratory, National Institute of Allergy and Infection Diseases, National Institutes of Health, Bethesda, USA.

The role of granzyme A in fungal infection by Drs A MÜLLBACHER and M SIMON with Dr R Ashman, Oral Biology and Pathology, University of Queensland, Brisbane, QLD.

The role of poxvirus encoded serpins in cytotoxic T cell induced apoptosis by Drs A MÜLLBACHER and P WARING with Dr R Wallich, Department of Immunology, University of Heidelberg, Heidelberg, Germany.

The role of granzymes in the induction of apoptosis by Drs A MÜLLBACHER and P WARING with Dr M Simon, Max Planck Institute für Immunbiologie, Freiburg, Germany.

Sulfated oligosaccharides as anti-viral agents by Prof C PARISH with Dr A Cunningham, Westmead Hospital, Sydney, NSW.

Inhibition of uveitis by oligosaccharides by Prof C PARISH with Dr K Williams, Flinders Medical Centre, Bedford Park, SA.

Carbohydrate-based anti-metastatic compounds by Prof C PARISH with Dr R Anderson, Peter MacCallum Cancer Institute, Melbourne, VIC, Drs H Wheeler and N Pavlakis, Royal North Shore Hospital, Sydney, NSW.

Analysis of cell adhesion molecules on human lymphocytes by Prof C PARISH with Dr H Warren, Canberra Hospital, Canberra, ACT.

Novel multimeric technology for cell surface molecules by Prof C PARISH with Dr B Cornell, AMBRI, Sydney, NSW; Dr J Altin, Biochemistry and Molecular Biology Division, The Faculties, ANU.

Histidine-rich glycoprotein deficiencies and autoimmune disease by Prof C PARISH with Prof P Gatenby, Canberra Hospital, Canberra, ACT.

3D structure of mammalian heparanase by Prof C PARISH with Dr M Parker, St Vincents Hospital, Melbourne, VIC.

Role of histidine-rich glycoprotein in angiostatin formation and action by Prof C PARISH with Dr P Hogg, School of Pathology, University of New South Wales, Sydney, NSW .

Cytokines and dendritic cells in oral tolerance and mucosal immune responses, and non-replicating oral vaccines for immunocontraception by Dr A RAMSAY with Dr K W Beagley, University of Newcastle, Newcastle, NSW.

Immunobiology of murine cytomegalovirus and its potential as a vaccine vector by Dr A RAMSAY with Dr M Lawson and Prof G Shellam, University of Western Australia, Perth, WA.

Recombinant poxvirus-based immuno-contraceptive vaccine development by Dr A RAMSAY with Dr R Jackson, CSIRO, Gungahlin, ACT.

Genetic vaccine strategies for mucosal immunity against HIV by Dr A RAMSAY with Dr S Kent, MacFarlane Burnet Centre, Melbourne, VIC.

Design of viruses for the biological control of vertebrate populations by Prof I A RAMSHAW with Drs P Jackson and P Kerr, Division of Wildlife and Ecology, CSIRO, Canberra, ACT.

Investigation into immunogenicity of DNA vaccines by Prof I A RAMSHAW with Prof H Robinson, Department of Pathology, University of Massachusetts, Worcester, MA. USA.

HIV polytope vaccines by Prof I A RAMSHAW with Dr A Suhrbier, QIMR, Brisbane, QLD, Dr R Ffrench, Sydney Children's Hospital, Westmead, NSW.

A novel HIV vaccine by Dr S A THOMSON with Dr S Kent, Macfarlane Burnet Centre, Melbourne, VIC; Dr R A Ffrench, Sydney Children's Hospital, Westmead, NSW.

Polyepitope vaccine for Papilloma virus infection and cervical cancer by Dr S THOMSON with Assoc Prof B Tindle, Sir Albert Sakzewski Virus Research Centre, Brisbane, QLD.

Polyepitope vaccine for glandular fever and transplant induced lymphoproliferative disease by Dr S A THOMSON with Prof D Moss, Drs R Khanna and M Sherritt, Queensland Institute of Medical Research, Brisbane, QLD.

Delivery of multiple EAE epitopes by Dr S A THOMSON with Dr D O Willenborg, Neurosciences Research Unit, Canberra Hospital, Canberra, ACT.

Molecular Medicine, Division of

Influence of fatty acid content on the oxidisability of LDL in subjects with coronary artery disease by Dr N G ARDLIE with D A McGill, Department of Cardiology, The Canberra Hospital, ACT.

Low density lipoprotein oxidation in haemochromatosis by Dr N G ARDLIE with Dr M L Bassett, Department of Gastroenterology, The Canberra Hospital, ACT and Dr J E Dalhstrom and Dr S Jain, Department of Anatomical Pathology, The Canberra Hospital, ACT.

Structural analysis of glutathione S-transferases by Prof P BOARD with Dr M Parker, St Vincent's Medical Research Institute, Melbourne, Vic.

Regulation of mouse Theta class GST genes by Prof P BOARD with Dr W Pearson, Department of Biochemistry, School of Medicine, University of Virginia Health Sciences Center, Charlottesville, Virginia USA.

Use of GST genes to create drug resistance in hematopoietic stem cells Prof P BOARD with Dr M Webb, Haematology, The Canberra Hospital, ACT.

Structural analysis of the Omega class GSTs by Prof P BOARD with Dr C Gabel, Dr K Geoghegan and Dr J Pandit, Central Research Division, Pfizer Inc, Groton CT, USA.

Phylogenetic and evolutionary studies of the glutathione S-transferase family by Prof P BOARD with Dr LS Jermiin, School of Biological Sciences, University of Sydney.

Parkinson's Disease, Pesticides and glutathione transferase polymorphisms by Prof P BOARD with Dr D LeCouteur, Department of Pharmacology, University of Sydney and Canberra Clinical School, The Canberra Hospital, ACT.

Function of the Zeta class GSTs by Prof P BOARD with Dr M W Anders, Dept. of Pharmacology and Physiology, University of Rochester Medical.

Functional analysis of glutathione transferases by Prof P BOARD with Dr M Lo Bello, Dr A Caccuri and Dr G Ricci, University of Rome.

The genetic basis of common mental disorders associated with anxiety and depression by Dr S EASTEAL with Prof A S Henderson and Dr A Jorm, Social Psychiatry Research Unit, and ANU; Prof M Prior, Psychology Department, Melbourne University.

Genetics and Evolution of human alpha actinin-3 by SR S EASTEAL with Drs K N North and N Yang, Neurogenetics Research Unit, Royal Alexandra Hospital for Children, Sydney; and Dr A H Beggs, Harvard Medical School, Boston.

Development of ultrafast maximum likelihood programs for DNA and protein sequence analysis on supercomputers by Dr S EASTEAL with Dr M Kahn, The ANU Supercomputer Facility, ANU, Dr R Brown, The ANU Supercomputer Facility, ANU and Dr B D McKay, Department of Computer Science, ANU; Dr M J Wolf, Computer and Information Science Department, Mankato State University, USA; and Dr L Jermiin, Australian Genomic Information Centre, The University of Sydney.

Analysis of ancient human DNA by Dr S EASTEAL with Dr A Thorne, Department of Prehistory and Anthropology, ANU; Drs J Peacock and E Dennis, CSIRO Division of Plant Industry; and Dr L Jermiin, Australian Genomic Information Centre, The University of Sydney.

Peptide epitopes by Dr G CHALVANAYAGAM with Dr V Apostolopoulos and Prof I F C McKenzie, The Austin Research Institute, Heidelberg, Vic.

Structure functions and mechanisms of GSTs by Dr G CHELVANAYAGAM with A/Prof M Parker, St

Vincent's Institute of Medical Research, Melbourne, Vic.

Functional properties of HLA molecules by Dr G CHELVANAYAGAM with Dr X Gao, National Cancer Institute, Frederick MD USA.

Protein structure by Dr G CHELVANAYAGAM with Prof G H Gonnet, ETH, Zurich Switzerland; Prof S A Benner, Dept. Chemistry, University of Florida USA.

Comparative evolutionary analysis of the HLA and other genomic regions by Dr G A HUTTLEY with Dr G Thomson, Department of Integrative Biology, UC Berkley, USA.

Assessing the utility of SNP markers for linkage disequilibrium mapping by Dr G A HUTTLEY with Prof D Naiman, Dept. of Mathematical Sciences, John Hopkins University, Baltimore MD, USA; Prof G Uhl, School of Medicine, John Hopkins University; and Prof S R Wilson, School of Mathematical Sciences, ANU.

Analysis of genetic diversity at cancer susceptibility genes in humans and other primates by Dr G A HUTTLEY and Dr S EASTEAL with Dr D J Venter, Peter MacCallum Cancer Institute, Melbourne; Dr J L Hopper, Centre for Genetic Epidemiology, University of Melbourne.

Assessing the importance of DNA replication on mutation by Dr G A HUTTLEY and Dr S EASTEAL with Prof S R Wilson, School of Mathematical Sciences, ANU; Dr I Jakobsen, Institute for Molecular Evolution, Pennsylvania State University, USA.

The effect of varying demographic and evolutionary regimes on patterns of linkage disequilibrium by Dr G A HUTTLEY and Dr S EASTEAL with Prof S R Wilson, School of Mathematical Sciences, ANU.

Ubiquitin-specific proteases in cancer by Dr R BAKER with A/Prof DA Gray, Ottawa Regional Cancer Centre, University of Ottawa, Ontario, Canada.

Ubiquitin-specific proteases in eye development by Dr R BAKER with Dr J Fischer, Department of Zoology, University of Texas, Austin, Texas, USA.

Ubiquitin-ribosomal fusion proteins in yeast and mammals by Dr R BAKER with, Prof R E H

Wettenhall, Dept of Biochemistry, University of Melbourne, Victoria.

Phylogenetic studies of the ubiquitin-specific protease family by Dr R BAKER with Dr L S Jermin, Australian Genomic Information Centre, University of Sydney, NSW.

Chromosomal mapping of human genes by Dr R BAKER with Dr G. Sutherland and Mrs E. Woolatt, Dept of Cytogenetics and Molecular Genetics, Women's and Children's Hospital, Adelaide SA.

Genetic analysis of B cell development and activation (supported by the Human Frontiers Science Program by Prof C GOODNOW with Dr M Thomas, Dept of Pathology, Washington University, St Louis, MO USA; and Prof K Rajewsky, Institute for Genetics, University of Cologne, Germany.

Role of CD22 and interactions with SHP-1 phosphatase in B cells by Prof C GOODNOW with Dr E Clark, University of Washington, Seattle WA USA.

Gene expression during B cell activation, anergy and immunosuppression by Prof C GOODNOW with Dr D Mack, Affymetrix Inc, Santa Clara, California.

Genetic modifiers of squamous carcinogenesis by Prof C GOODNOW with Dr D Hanahan, University of California, San Francisco; and Dr S Foote, Walter and Eliza Hall Institute, Melbourne.

Discovery of new mutations affecting blood cell formation by Prof C GOODNOW with Dr D Hilton and Dr W Alexander, Walter and Eliza Hall Institute, Melbourne.

Discovery of new mutations affecting breast duct proliferation by Prof C GOODNOW with Dr C Ormandy, Garvan Institute, Sydney.

Discovery of new mutations affecting bone and soft tissue mass by Prof C GOODNOW with Dr E Gardiner, Garvan Institute, Sydney.

Discovery of new mutations affecting splenic architecture by Prof C GOODNOW with Dr J Cyster, University of California, San Francisco.

Discovery of new mutations affecting behaviour and coordination by Prof C GOODNOW with Dr C Fletcher and Dr S Kay, Novartis Institute of Functional Genomics, San Diego.

Development of high-throughput methods for screening ENU and other mouse mutant libraries by Prof C GOODNOW with Dr M Chee, Illumina Inc, San Diego.

Genetic susceptibility to human colorectal cancer by Dr M KOHONEN-CORISH with Prof W F Doe, University of Birmingham Medical School, UK; Dr J St John and Dr F Macrae, Royal Melbourne Hospital; Dr J Wijnen and Dr R Fodde, University of Leiden, the Netherlands; and Prof L Bokey, Prof P Chapuis and Prof R Newland, Concord Hospital, Sydney.

Molecular Genetics of Melanoma and Lung Cancer by Dr M KOHONEN-CORISH with Dr M Millward, Sydney Cancer Centre, Sydney; and Prof R Trent, Department of Molecular and Clinical Genetics, Royal Prince Alfred Hospital, Sydney.

Cancer-colitis model in Msh2 deficient mice with Dr K KOHONEN-CORISH with Dr G Buffinton, St. Bartholomew's and Royal London School of Medicine and Dentistry, London, UK; Dr J Dahlstrom, The Canberra Hospital; Dr H te Riele, The Netherlands Cancer Institute, Amsterdam, the Netherlands.

Investigation of X maturation of the ileal Peyer's patches by Dr P McCULLAGH with Prof C Press and T Landsverk, Royal Norwegian Veterinary School, Oslo.

Development of Peyer's patches and of immunological function in the gut of the foetal lamb by Dr P McCULLAGH with Dr S McClure, McMaster Laboratory, CSIRO, Sydney.

Compartmental modelling of lymphocyte migration by Dr P McCULLAGH with Dr L Dedik, Faculty of Mechanical Engineering, Slovak Technological University, Bratislava.

Pulmonary development in thyroidectomized foetal lambs by Dr P McCULLAGH with Dr M Peek, Foetal Medicine Unit, Department of Obstetrics, University of Sydney, Canberra Clinical School, ACT.

Electron microscopic examination of the alveoli of athyroid fetal lambs by Dr P McCULLAGH with Dr J Dahlstrom, Pathology Department, The Canberra Hospital, ACT.

Neuroprogenitor cells for delivery of immunoregulatory cytokine genes to pig proislet xenografts in mice by Dr C J SIMEONOVIC with Dr

R Taylor, Dept of Animal Science, University of Sydney, NSW; and Clin Assoc Prof J D Wilson, Department of Endocrinology, The Canberra Hospital, ACT.

Regulation of pig proislet xenograft destruction and assessment of the potential for xenozoonoses by Dr C J SIMEONOVIC with Prof A Gibbs, Molecular Genetics and Evolution, Research School of Biological Sciences; and Clin Assoc Prof J D Wilson, Department of Endocrinology, The Canberra Hospital, ACT.

Role of chemokines in the rejection of pig proislet xenografts by Dr C J SIMEONOVIC with Dr W A Kuziel, Section of Molecular Genetics and Microbiology, The University of Texas at Austin, Austin, Texas, USA.

Macrophage-induced muscle pathology following Ross River Virus infection in mice by Dr C J SIMEONOVIC with Dr B Lidbury, Gadi Research Centre, Division of Science and Design, University of Canberra, ACT.

Neuroscience, Division of

ATP-gated ion channels in the rat brain by Dr J M BEKKERS with Dr F Edwards, Department of Physiology, University College London.

Single-channel properties of the slow AHP current by Dr J M BEKKERS with Prof B Sakmann, Max Planck Institute for Medical Research, Heidelberg.

Oscillatory properties of hippocampal pyramidal cells by Dr J M BEKKERS with Dr O Paulsen, Department of Pharmacology, University of Oxford, Prof R Olsen, Dept of Physiology, UCLA, USA.

PI 3-kinase by Dr M CROUCH with Dr P Naccache, University of Quebec, Quebec, Canada.

Growth factor signal transduction by Dr M CROUCH with Dr B Kemp, St Vincent's Institute of Medical Research, Melbourne; Dr R Pearson, Peter MacCallum Cancer Institute, Melbourne.

Protein kinase G by Dr M CROUCH with Dr P Robinson, Children's Medical Research Institute, Sydney.

Electrical properties of iridial arterioles of the rat by Dr C E HILL with Drs G D S Hirst, F R Edwards, Department of Zoology, University of Melbourne.

Neuromuscular growth factors by Prof I A HENDRY with Dr I MacLennan, Department of Anatomy, University of Otago.

Investigating the Role of Neurotrophins and their Receptors at the Neuromuscular Synapse by Prof I A HENDRY with Dr P Noakes and Dr S Bartlett, Department of Physiology & Pharmacology, The University of Queensland.

PI4-kinase and NCS-1 co-localize in the growth cones of cultured mouse neurons by Prof I A HENDRY with A Jeromin, J Roder Mount Sinai Hospital, University of Toronto, Toronto, Canada.

Localisation of the mouse small optic lobe protein (sol) in the olfactory bulb by Prof I A HENDRY with Dr A Mackay-Sim, Griffith University.

The neurotrophic factors involved in retinal ganglion neuronal survival by Prof I A HENDRY with Dr A Harvey, University of Western Australia.

Synaptic transmission between interneurons and motoneurons in spinal cord by Prof S J REDMAN with Prof J Jack, Oxford.

Serial correlation in release probability by Prof S J REDMAN with Dr C Stricker, University of Zurich.

Interactions of EPSPs and action potentials by Dr G STUART with Dr M Hausser, University College, London UK.

Physiological mechanisms underlying startle disease by Dr P SAH with Dr R Callister, University of Newcastle.

Postsynaptic receptor clustering and synaptic efficacy at central synapses by Dr B WALMSLEY with Dr F J Alvarez and Prof R E W Fyffe, Department of Anatomy, Wright State University.

Molecular mechanisms of transmitter release by Dr B WALMSLEY with Prof P R Dunkley, Assoc Prof J A P Rostas, Dr A Slim and Dr S Fieuw-Makaroff, Discipline of Medical Biochemistry, Faculty of Medicine and Health Sciences, University of Newcastle.

Physical Sciences and Engineering, Research School of

Applied Mathematics

Preparation of and Study of Interactions between Homogeneous Hydrocarbon and Fluorocarbon Surfaces by Dr H K CHRISTENSON with Dr V V

Yaminsky with Prof M Hato, Dr T Ishida and Dr S Ohnishi, National Institute of Materials and Chemical Research, Tsukuba, Japan.

Determining the Surface Tension of Microlitre Quantities of Liquid by Dr H K CHRISTENSON with J Kirkness, Dr T Amis and Dr J Wheatley, Westmead Hospital and University of Sydney.

Nanotechnology Measurements using a Modified Atomic Force Microscope by Dr V J S CRAIG with Dr S Biggs, University of Newcastle.

A Reflectometry Study of the Adsorption of Cationic Surfactants to Silica by Dr V J S CRAIG with Dr S Biggs, University of Newcastle.

Molecular Confinement Studies by Prof E GAMALY with Drs S A Cruz and J Soullard, Universidad Autonoma Metropolitana, Mexico City, Mexico.

Formation Mechanism of Single-Walled Carbon Nanotubes in a Gas Phase by Prof E GAMALY with Drs W Maser, E Mu-oz, A M Benito, M T Martinez and G F de la Fuente, Instituto de Carboquimica, CSIC, Spain.

Laser Ablation in a Reactive Gas Filled Experimental Chamber by Prof E GAMALY with Prof A Perrone and Dr A Zocco, University of Lecce, Italy.

Polycontinuous Mesophases in Copolymer Melts by Prof S T HYDE with Prof T Hashimoto and Prof H Hasegawa, Kyoto University, Japan.

Microemulsions and Cubic Phases in Hydrogenated and Perfluorinated Systems by Prof S T HYDE with Prof M Monduzzi, Cagliari University, Italy.

Hyperbolic Forests and 3d Euclidean Thickets by Prof S T HYDE with Dr C Oguey, Université Cergy-Pontoise, France.

Dynamic Fluid Flow in Ore-Forming Systems by Dr M A KNACKSTEDT with Prof S F Cox, Research School of Earth Sciences.

Characterisation of Random Biphase Materials by Dr M A KNACKSTEDT with Dr K Mecke, University of Wuppertal, Germany; C Arns, UNSW.

Correlating Microstructure to Flow and Elastic Properties of Porous Materials by Dr M A KNACKSTEDT with Dr E Garboczi, D Bentz, Building Materials Division, National Institute of Standards and Technology, USA; Dr A P Roberts, Civil Engineering, Princeton University; C Arns, UNSW.

Network Modelling of Two-Phase Flow in Porous Media by Dr M A KNACKSTEDT and Dr A SHEPPARD with Prof W V Pinczewski, Australian Petroleum CRC; Prof M Sahimi, Chemical Engineering, University of Southern California, USA.

Penetration into Paper Products and Coatings by Dr M A KNACKSTEDT and Dr T J SENDEN with Dr B Lyne, Research Director, International Paper Pty Ltd.

Pore-scale Network Characterisation of Sedimentary Rocks by Dr R SOK, Dr A SHEPPARD and Dr M A KNACKSTEDT with Prof W V Pinczewski, Australian Petroleum CRC; Prof W B Lindquist, SUNY Stony Brook.

Restriction Enzyme Mechanisms; Specific Ion Effects in Flocculation of Hydrophobic Colloids; Denaturing of Proteins by Surfactants, Ion Binding to DNA; Laser Spectroscopy of Liquids, Effects of Dissolved Gas; Ion Binding to Colloids via NMR Diffusion; Theories of Molecular Forces, Specifically Casimir Effects; Templating of Metal Particles in Mesostructured Fluids; Phase Behaviour and Mesostructure of Microemulsions; Phase Behaviour of Brain Lipids and Microstructure in Milk by Prof B W NINHAM with Universities of Lund; Gothenberg; Surface Chemistry Institute (YKI) Stockholm; University of Paris V1; Florence; Moscow State.

Characterisation of Microstructures in the Surfactant/Polymer/Water Systems Using Freeze Fracture Electron Microscopy by Dr E RADLINSKA with Dr T Gulik-Krzywicki, Centre de Génétique Moléculaire, CNRS, France.

Phase Transitions in the C12E5/Water/Random Heteropolymer System by Dr E RADLINSKA with Dr D Langevin, Laboratoire de Physique des Solides, Université Paris Sud, France; Dr F Lafuma, Ecole Supérieure de Physique et de Chimie, France; Prof W Urbach, Ecole Normale Supérieure, France; Dr C E Williams, Collège de France, France; Dr R Ober, Collège de France, France.

The Microstructure of Coals and Oil-Bearing Shales by Dr E RADLINSKA with Dr A P Radlinski, The Australian Geological Survey Organisation.

Experimental Single Chain Polymer Mechanics by Dr T J SENDEN with Prof J-M di Meglio, Institut Charles Sadron/Université Louis Pasteur, Strasbourg, France.

The Development of Novel Delivery Systems for Radiotherapy by Dr T J SENDEN with Dr B Burch, Radiopharmaceuticals Division, ANSTO.

Development of a Fast Network Simulator for 3-Phase Flow by Dr A SHEPPARD and Dr R SOK with Prof W V Pinczewski, Australian Petroleum CRC.

Folding Dynamics of DNA Condensates by Dr D R M WILLIAMS with B Schnurr and Dr F C MacKintosh, University of Michigan.

Novel DNA Condensates by Dr D R M WILLIAMS with Dr J Hoh, John's Hopkins Medical School, USA.

Principles and Methods of Capillarography by Dr V V YAMINSKY with K Thuresson and Dr T Nylander, Physical Chemistry I, Lund University.

Ellipsometry Studies of Wetting and Adsorption by Dr V V YAMINSKY with K Eskilsson, Physical Chemistry I, Lund University.

Dynamic Spreading of Liquids and Solutions by Dr V V YAMINSKY with F Tibergh, YKI, Stockholm.

Hydrophobic Bridging Forces by Dr V V YAMINSKY with Prof P Claesson, YKI, Stockholm.

Wetting and Marangoni Effects in Self-assembly of Nanoparticles by Dr V V YAMINSKY with Prof M-P Pileni and Dr L Motte, Laboratoire SRSI, University Paris VI.

Water and Biomaterials by Dr V V YAMINSKY with Dr E Vogler, Departments of Materials Science and Engineering and Bioengineering, The Pennsylvania State University.

Atomic and Molecular Physics Laboratories

Low Energy Electron Molecule Scattering by Prof S J BUCKMAN with Dr M J Brunger and Prof P J O Teubner, Flinders University.

Electron Scattering from Molecular Radicals by Prof S J BUCKMAN with Dr M J Brunger and W Lawrance, Flinders University.

Electron Scattering from CO₂ by Prof S J BUCKMAN with Prof M A Morrison and Dr S F Mazevet, University of Oklahoma, USA.

Electron Scattering from Metal Vapours by Prof S J BUCKMAN with Prof P D Burrow, University of Nebraska; Prof K Bartschat, Drake University, USA.

Electron Molecule Scattering by Prof S J BUCKMAN with Prof H. Tanaka, Sophia University, Japan.

Phase Changes in Transition Metal Dichalcogenides due to GeV Heavy Ion, and MeV Fullerene Ion Bombardments — Transmission Electron Microscopy and Surface Force Microscopy by Prof L T CHADDERTON with Dr A Dunlop, SESI, École Polytechnique, Paliseaux, France.

Radiation Effects on Polymers; Semiconductors by Prof L T CHADDERTON with Dr D Fink, Hahn-Meitner Institute, Berlin.

Theory and Practice of Organic Radical Formation and Motion in GeV Ion Irradiated Polymers by Prof L T CHADDERTON with Prof S A Cruz, Autonomous Metropolitan University of Mexico, Mexico.

(e,2e) Primary Current Electron Spectroscopy and Other Surface Technical Investigations of the Graphite/Fullerene Radiation Induced Phase Change by Prof L T CHADDERTON with P B Möller, Niels Bohr Institute, Copenhagen, Denmark.

Quantum Statistics and Boltzmann's Equation by Prof R W CROMPTON and Dr K KUMAR (Theoretical Physics) with Dr R E Robson, James Cook University; Prof M A Morrison, University of Oklahoma, USA.

Ultracold Atomic Collisions by Dr M D HOOGERLAND with Dr I Whittingham, James Cook University.

Convergent Close-Coupling Theory of Double Ionization by Photon and Electron Impact by Dr A S KHEIFETS with Dr I Bray, Flinders University of South Australia.

Electron Momentum Density Studies in Metals and Metal Oxides by Dr A S KHEIFETS with Dr M Ford, Flinders University of South Australia.

Electron Impact Double Ionization of the Helium Atom by Dr A S KHEIFETS with Prof A Lahmam-Bennani, University of Paris — Orsay.

Coincident Compton Scattering from Solids by Dr A S KHEIFETS with Prof F Bell, University of Munich.

Circular Dichroism in Atomic Double Photoionization by Dr A S KHEIFETS with Prof A Yagishita, Photon Factory, High Energy Accelerator Research Organization.

Photodissociation Quantum Yields by Dr B R LEWIS and Dr S T GIBSON with Dr J Lacoursiere and Dr T

G Slanger, SRI International, Menlo Park, California, USA.

Multiphoton Excitation of Coupled Molecular States by Dr B R LEWIS and Dr S T GIBSON with Dr R A Copeland and Dr C G Bressler, SRI International, Menlo Park, California, USA.

Calculations of Transition Strength by Dr B R LEWIS and Dr S T GIBSON with Dr T G Slanger and Dr D L Huestis, SRI International, Menlo Park, California, USA.

Rydberg-Valence Interactions by Dr B R LEWIS and Dr S T GIBSON with Prof M L Ginter, University of Maryland, USA; Dr J S Morrill, Naval Research Laboratory, Washington DC, USA.

High-Resolution Oscillator-Strength Measurements by Dr B R LEWIS and Dr S T GIBSON with Prof G Stark, Wellesley College, Massachusetts, USA.

Anomalous Intensities in REMPI Spectra by Dr B R LEWIS and Dr S T GIBSON with Dr R A Copeland, Dr R Robertson and A Tucay, SRI International, Menlo Park, California, USA.

Coupled-Channel Calculations for Atmospheric Photochemical Models by Dr B R LEWIS and Dr S T GIBSON with Dr L W Torop, Dr F T Hawes, University of Adelaide.

Development of Ultra-High Resolution VUV Laser Sources by Dr B R LEWIS and Dr K G H BALDWIN (LPC) with Prof B J Orr, Macquarie University.

Comparison of Modern Many-Body Theories with the Measured Energy-Resolved Momentum Densities of Aluminium by Dr M VOS with Dr B Holm, Chambers University, Goteborg.

Electron Momentum Spectroscopy and $(\gamma, e\gamma)$ Spectroscopy by Dr M VOS with Prof F Bell, University of Munich, Germany.

Electron Momentum Spectroscopy of Solids by Prof E WEIGOLD, Dr A S KHEIFETS and Dr M VOS with Prof I E McCarthy and Dr M Ford, Flinders University.

$(e, 2e)$ Processes with Polarized Electrons and Targets by Prof E WEIGOLD and Dr J LOWER with Dr J Berakdar, Max Planck Institut für Mikrostruktur Physik, Halle, Germany; Dr S Mazevet, Los Alamos Laboratory, USA.

National Facility for Spin Polarisation Studies of Atoms and Molecules by Prof E WEIGOLD and Dr J LOWER with Prof J F Williams, University of Western Australia.

Electron Momentum Spectroscopy of Atoms and Molecules by Prof E WEIGOLD with Dr M J Brunger and Prof I E McCarthy, Flinders University.

Electron Momentum Spectroscopy of Large Molecules by Prof E WEIGOLD with Prof I E McCarthy, Dr M J Brunger and Dr W Adcock, Flinders University; Dr M T Michalewicz, CSIRO Division of Information Technology; Dr D Winkler, CSIRO Division of Chemicals and Physics.

Electronic Materials Engineering

Synthesis of Carbon Nanotubes by Using High-Energy Ball Milling by Dr Y CHEN with Dr L Chaffron, Section de Recherche de Metallurgie Physique, Saclay Research Center, France.

Mossbauer Analysis of Metal Catalysts for Nanotube Formation by Dr Y CHEN with Prof G LE CARE, Ecole de mine de Nancy, Nancy, France.

Increased Dissolution of Ilmenite Induced by High-Energy Ball Milling by Dr Y CHEN with Prof S Campbell and Dr G M Wang, Department of Physics, Australian Defense Force Academy.

Microscopy and Microanalysis of Nanotubes Produced by Mechano-Thermal Processes by Dr Y CHEN with Dr J Zou and S Bulcock, Electron Microscopy Unit, College of Sciences and Technology, University of Sydney.

Solid State Formation of Carbon Nanotubes by Dr Y CHEN with Prof H M Cheng, Institute of Metal Research, Chinese Academy of Sciences, Shenyang, China.

Atomic Collision Processes Associated with High-Energy Heavy-Ions by Dr R G ELLIMAN with Dr H Whitlow and Dr Y Zhang, Lund University, Sweden; Dr J O'Connor, Newcastle University.

High-Energy Heavy-Ion Beam Analysis of Silicon Oxynitride Thin Films by Dr R G ELLIMAN with Prof J Davies, Chalk River, Canada; Dr S Walker, Bosch.

Strain Relaxation Processes in Ion-Irradiated Ge-Si Alloys by Dr R G ELLIMAN with Prof D J H Cockayne and J Zou, University of Sydney.

Nucleation and Growth of Amorphous Silicon During Ion-Irradiation by Dr R G ELLIMAN with Dr R Goldberg, Applied Materials, UK.

Electronic and Optical Properties of Nanocrystalline Semiconductors by Dr R G ELLIMAN with Dr Suk-Ho Choi, Kyung Hee University, Korea.

Properties of Nanocrystalline Semiconductors and Ion-Beam Modification of Materials by Dr R G ELLIMAN with Prof B Stritzker, University of Augsburg, Germany.

Transmission Electron Microscopy of Semiconductor Materials and Structures by Dr R G ELLIMAN, Dr C JAGADISH and Prof J S WILLIAMS with Prof D Cockayne and Dr J Zou, Electron Microscopy Unit, University of Sydney.

Electron and Photon Stimulated Desorption from Diamond Surfaces by Dr M PETRAVIC with Prof A Hoffman, Technion, Israel; Dr G Comtet, Dr L Heffner and Dr G Dujardin, Uni Paris-Sud, France.

Characterization of SIMS Standards by Dr M PETRAVIC with Dr D W Moon, KRISS, Korea.

Photoemission and Photodesorption Spectroscopy of GaAs Surfaces by Dr M PETRAVIC and P N K DEENAPANRAY with Dr G Comtet, Dr L Hellner and Dr G Dujardin, Uni-Paris-Sud, France.

Angular Dependence of Depth Resolution in SIMS Analysis by Dr M PETRAVIC and P N K DEENAPANRAY with Dr D W Moon, KRISS, Korea; Prof Demanet, University of Transkei, South Africa.

As Diffusion in Ge by P N K DEENAPANRAY and Dr M PETRAVIC with Dr J Likonen, Technical Research Center of Finland; Dr T Ahlgren, University of Helsinki, Finland.

Photoemission Study of Oxidised and Nitridated Semiconductor Surfaces by P N K DEENAPANRAY and Dr M PETRAVIC with Dr B Gong and Prof R N Lamb, University of New South Wales.

Electrical Characterisation of Ion-Implanted Semiconductors by Dr M C RIDGWAY with Prof F D Auret, Prof S A Goodman and Dr G Myburg, University of Pretoria, South Africa.

Implantation-Induced Phenomena in Optoelectronic Materials by Dr M C RIDGWAY with Dr P W Leech, CSIRO; Dr V Gurarie, University of Melbourne.

Doping of SiC by Ion Implantation by Dr M C RIDGWAY with Prof M Rao, George Mason University, USA.

EXAFS Measurements of Implantation-Induced Disorder in Semiconductors by Dr M C RIDGWAY and C J GLOVER with Dr K M Yu, Lawrence Berkeley National Laboratory, USA; Dr G Foran, Photon Factory, Japan.

EXAFS Characterisation of Implantation-Induced Disorder in Ge and $\text{Ge}_x\text{Si}_{1-x}$ Alloys by Dr M C RIDGWAY and C J GLOVER with Dr A Nylandsted-Larsen and Dr J Hansen, Aarhus University, Denmark.

Perturbed Angular Correlation Measurements of Implantation-Induced Disorder in Semiconductors by Dr M C RIDGWAY, C J GLOVER and Dr A P BYRNE (Nuclear Physics) with Dr R Vianden, Universitat Bonn, Germany.

Transmission Electron Microscopy of Implantation-Induced Amorphisation in Semiconductors by Dr M C RIDGWAY, Prof J S WILLIAMS and X ZHU with Dr H Bernas, Dr F Fortuna and Dr M-O Ruault, Centre National de Recherche Scientifique, Orsay, France.

Optical Spectroscopy of Semiconductor Quantum Structures and Devices by Dr H H TAN, Dr Z CHEN, L FU, M I COHEN, C LOBO, P N K DEENAPANRAY, C CARMODY and Prof C JAGADISH with M B Johnston, Dr L V Dao and Prof M Gal, University of New South Wales.

Fabrication and Characterization of Quantum Well Infrared Photodetectors by L FU, Dr H H TAN and Prof C JAGADISH with M B Johnston and Prof M Gal, University of New South Wales.

Design, Fabrication and Testing of High Power and Multi-Wavelength Lasers by Dr H H TAN, M I COHEN, L FU and Prof C JAGADISH with Dr F Karouta, M Buda and G Iordache, Eindhoven University of Technology, The Netherlands.

Optical Spectroscopy Studies on Semiconductor Quantum Wires and Dots by Prof C JAGADISH, Dr H H TAN and L FU with Prof S C Shen, Prof W Lu, Dr X Liu, Dr Li Na, Dr Z Chen, Li Ning, Dr Y Chang and H F Dou, Shanghai Institute of Technical Physics, Chinese Academy of Sciences.

Implantation Induced Quantum Well Intermixing in GaAs/AlGaAs Heterostructures by Dr H H TAN

and Prof C JAGADISH with Prof I V Mitchell and Dr R D Goldberg, University of Western Ontario.

Development of Indigenous Photodetectors for Wideband Photonic RF Links by Dr H H TAN and Prof C JAGADISH with Dr T Lindsay, Defence Science and Technology Organisation; Prof M W Austin, Royal Melbourne Institute of Technology; I Will and A Hart, Vision Abell.

Passive Mode-Locking of Solid State Lasers Using Semiconductor Saturable Absorbers by Dr H H TAN, Prof C JAGADISH, Dr M J LEDERER and Prof B LUTHER-DAVIES (Laser Physics Centre) with M Haiml, Dr U Seigner and Prof U Keller, ETH-Zurich.

Electrical, Optical and Structural Properties of Non-Stoichiometric GaAs by Prof C JAGADISH and Dr H H TAN with Prof M Kaminska, Warsaw University, Poland.

Ultrafast Optical Spectroscopy Studies of Non-Stoichiometric GaAs by Prof C JAGADISH and Dr H H TAN with Prof A Krotkus, Semiconductor Physics Institute, Vilnius, Lithuania; Dr S Marcinkevicius, Royal Institute of Technology, Stockholm, Sweden.

Reactive Ion Etching of GaN Epitaxial Layers by Dr H H TAN and Dr C JAGADISH with Dr G Li, Ledex Corporation, Taiwan.

Electron Microscopy Study of Defects in Ion Implanted Semiconductors by Dr J WONG-LEUNG, Dr H H TAN, S FATIMA, Prof C JAGADISH and Prof J S WILLIAMS with Prof D J H Cockayne, Dr J Zou and Dr C T Chou, University of Sydney, Dr J Fitz Gerald, Research School of Earth Sciences.

Study of MeV Ion Implanted Defect Generation in Silicon by S FATIMA and Prof C JAGADISH with Prof B G Svensson, Royal Institute of Technology, Kista-Stockholm, Sweden.

Electron Microscopy of Epitaxial Semiconductor Structures by C LOBO, Dr H H TAN, L FU, C CARMODY and Prof C JAGADISH with Prof D J H Cockayne, Dr J Zou, J Liao and D Q Cai, University of Sydney.

Ion Implantation in Gallium Nitride by S O KUCHEYEV, Dr H H TAN, Prof C JAGADISH and Prof J S WILLIAMS with Prof J Baranowski and Prof M Kaminska, Warsaw University and Dr T Suski, High Pressure Research Institute, Warsaw, Poland.

Defects and Diffusion in III-V Compound Semiconductors by P N K DEENAPANRAY, Lan FU, M I COHEN, Dr H H TAN and Prof C JAGADISH with Prof R Cohen, University of Utah, USA.

Cathodoluminescence Imaging of Quantum Wires and Dots by Dr H H TAN, Dr S YUAN, C LOBO, Dr S I KIM and Prof C JAGADISH with Dr M R Phillips and M A Stevens Kalceff, University of Technology Sydney.

Electrical and Optical Characterization of Self-Assembled Quantum Dots by Prof C JAGADISH, Dr H H TAN and C LOBO with Dr A Babinski, Dr A Wyszomolek, T Tomaszewicz and Prof J Baranowski, Warsaw University, Poland.

Noise Characteristics of Semiconductor Lasers by Dr H H TAN, L FU, J HAZEL, Dr A UDDIN and Prof C JAGADISH with Prof P Edwards, Assoc Prof W Cheung and Dr G French, Faculty of Information Science and Engineering, University of Canberra.

Processing Induced Defects in Si, Si_xGe_{1-x} and GaAs Studied by DLTS by P N K DEENAPANRAY with Prof F D Auret, University of Pretoria, South Africa.

Novel Processing of Vertical Cavity Surface Emitting Lasers by M I COHEN, Dr H H TAN and Prof C JAGADISH with Dr A Allerman, Dr K Choquette, Sandia National Labs; Dr A Clark, Honeywell, Dallas.

Processing of GaN Based Optoelectronic Devices for Blue Light Emission by Prof C JAGADISH, Dr H H TAN, L Fu, S KUCHEYEV and Prof J S WILLIAMS with Dr A G Li, T Wu, W-J Chung and C-H Lin, Ledex Corporation, Taiwan.

Cathodoluminescence and Environmental SEM Studies of Ion Implanted GaN by S KUCHEYEV, Prof J S WILLIAMS, Dr H H TAN and Prof C JAGADISH with M Toth and Dr M Phillips, University of Technology, Sydney.

Study of Self Assembled Monolayers of Organic Molecules on Semiconductor Surfaces by C CARMODY, Dr H H TAN and Prof C JAGADISH with Dr V Braach-Maksvytis, Dr B Raguse and Dr G Griffiths, CSIRO Telecommunications and Industrial Physics; Dr L V Dao and Prof M Gal, University of New South Wales.

Compositional Ion Beam Analysis of YBCO Superconducting Films by Dr H TIMMERS with Dr

L Wielunski and Dr C Foley, CSIRO Telecommunications, Lindfield.

Implantation Processes and Defects in Silicon by Prof J S WILLIAMS, M J CONWAY, P N K DEENAPANRAY and Dr M PETRAVIC with Dr R A Brown, New Jersey Institute of Technology, USA; Dr D J Eaglesham, Lucent Technologies, Bell Lab, NJ, USA.

Implantation into Brittle Materials for Improved Thermal Shock Resistance by Prof J S WILLIAMS and M J CONWAY with Dr V Gurarie, School of Physics, University of Melbourne.

Ion-Induced Epitaxy in Silicon by Prof J S WILLIAMS with Dr A Kinomura, Dr N Fujii, Osaka National Research Institute, Japan.

Ion Implantation of Silicon by Prof J S WILLIAMS and Dr R G ELLIMAN with Dr R G Goldberg, University of Salford, UK.

Gettering of Metals to Defect on Si by Prof J S WILLIAMS, Dr M PETRAVIC, M J CONWAY and Dr J WONG-LEUNG with Dr A Kinomura, Dept of Material Physics, Osaka National Research Institute, Japan.

Implantation Processing of GaN Layers by Prof J S WILLIAMS, Prof C JAGADISH, Dr H H TAN and S O KUCHEYEV with Prof S Pearton, University of Florida, USA.

Ion-Induced Phase Transformations in Silicon by Prof J S WILLIAMS and X ZHU with Dr J C McCallum, University of Melbourne.

Ion Beam Induced Epitaxy Under Channeling Conditions by Prof J S WILLIAMS and M J CONWAY with Dr M Posselt, Institute for Ion Beam Physics and Materials Research, FZR, Dresden, Germany.

Novel Physical Properties of Nanocavities in Silicon by X F ZHU and Prof J S WILLIAMS with Prof W Liu, Shanghai Institute of Technical Physics, Chinese Academy of Sciences.

Novel Properties of Nanostructured Silver by X F ZHU and Prof J S WILLIAMS with Prof L D Zhang, Institute of Solid State Physics, Chinese Academy of Sciences; Prof X J Wu, Shejiang University, China.

Laser Physics Centre

Ultracold Atomic Collisions by Dr K G H BALDWIN with Dr I Whittingham, James Cook University.

Measurement of He 1s–2s Transition by Dr K G H BALDWIN with Dr T Lucatorto, NIST, Maryland, USA; Prof T J McIlrath, University of Maryland, USA; Prof E Eyler, University of Connecticut, USA.

Laser Written Ormosil Waveguide Components by Dr R CHARTERS with Prof Y Moreau and Dr P Coudray, University of Montpellier, France.

Incoherent Solitons by Dr W KROLIKOWSKI with Dr O Bang, Technical University Denmark, Copenhagen, Denmark.

Dynamics of Soliton Interaction in Photorefractive Media by Dr W KROLIKOWSKI with Prof T Tschudi and Dr C Denz, Technical University of Darmstadt, Darmstadt, Germany.

Screening Solitons in Photorefractive Waveguides by Dr W KROLIKOWSKI with Dr A Bledowski, Institute of Physics, Polish Academy of Sciences, Warsaw, Poland.

Ultrafast Nonlinear Optical Absorption in Ion-implanted GaAs by Dr M LEDERER with M Haiml, Dr U Siegner and Prof U Keller, Institute of Quantumelectronics, Swiss Federal Institute of Technology, ETH Zuerich.

Light Induced Structural Phase Transitions in Confining Gallium Films Produced by Ultrafast Laser Ablation and their Optoelectronic Applications by Prof B LUTHER-DAVIES, Dr A V RODE and Dr M SAMOC with Dr N I Zheludev, Department of Physics and Astronomy, University of Southampton, UK.

Off-Centre Ions by Dr N B MANSON with Dr H Reisen, Department of Chemistry, UNSW-ADFA; V Bursian, A F Ioffe, Physico-Technical Institute, Academy of Sciences, Russia.

Phase Sensitive Raman Heterodyne Detection by Dr N B MANSON, Dr J P D MARTIN and Dr M J SELLARS with Prof D Suiter and R Neuhaus, Universitat Dortmund, Germany.

Electron-Energy Loss Spectra of Carbon Nano-Foam Produced by Ultrafast Laser Ablation by Dr A V RODE with Prof D R MacKenzie, School of Physics, University of Sydney, NSW, Australia.

Ultrafast Laser Ablation and Deposition of Thin Films by Dr A V RODE and Prof B LUTHER-DAVIES with Prof E G Gamaly, Departamento de Fisica, Universidad Autonoma Metropolitana — Iztapalapa, Mexico (until August), Department

of Applied Mathematics, RSPHysSE, ANU (from August).

Nonlinear Optical Properties of Substituted Poly(phenylenevinylenes) by Dr A SAMOC, Dr M SAMOC and Prof B LUTHER-DAVIES with Prof H-H Hoerhold, University of Jena, Germany.

Novel Ormosil Materials for Photonics by Dr A SAMOC, Dr M SAMOC, Prof B LUTHER-DAVIES and Dr R CHARTERS with Dr G Atkins, OFTC, University of Sydney.

NLO Properties of Poly (indenofluorene) by Dr M SAMOC, Dr A SAMOC and Prof B LUTHER-DAVIES with Dr U Scherf, Max-Planck-Institut, Mainz, Germany.

Nuclear Physics

Development of an Ion Implanter for Radio-isotopes by Dr A P BYRNE with Associate Prof D H Chaplin, University College, ADFA, UNSW.

Hyperfine Interaction Studies of Semiconductor Materials by Dr A P BYRNE with Dr R Vianden, ISKP, University of Bonn, Germany.

Production of Isotopes for Cancer Therapy by Dr A P BYRNE with Prof B Allen and Dr G Goozee, St George Cancer Care Centre, NSW.

Spectroscopy of Neutron Rich Nuclei Near and Above ^{208}Pb Studied using Deep Inelastic Reactions by Dr A P BYRNE and Prof G D DRACOULIS with Dr G J Lane, Lawrence Berkeley Laboratory, California, USA; Prof R Broda, INP, Krakow, Poland; Dr R V F Janssens, Argonne National Laboratory, Illinois, USA.

Spectroscopy of Neutron Deficient Lead and Thallium Nuclei by Dr A P BYRNE, Dr A M BAXTER (Faculties) and Prof G D DRACOULIS with Prof R Julin, University of Jyväskylä, Finland.

Environmental Isotopes in Arid Zone Groundwaters by Dr R G CRESSWELL with Dr G Jacobson and Dr S Hostetler, Bureau of Rural Sciences; Dr D Hilton, UC San Diego; Dr A Herczeg, CSIRO Land and Water.

Measuring Groundwater Flow in Fractured Rocks in the Clare Valley, South Australia by Dr R G CRESSWELL and Dr L K FIFIELD with Dr P Cook, Dr A Herczeg and Dr F Leaney, CSIRO Land and Water (Adelaide).

Groundwater Flow and Recharge Processes on the Western Margin of the Great Artesian Basin by Dr R G CRESSWELL and Dr L K FIFIELD with Dr A Love, South Australian Department of Primary Industry and Resources.

Sustainability of Groundwater Supplies in Central Australia and Nepal by Dr R G CRESSWELL and Dr L K FIFIELD with Dr G Jacobsen, AGSO.

Hydrochemistry of the Main Artesian Aquifer in the Great Artesian Basin by Dr R G CRESSWELL and Dr L K FIFIELD with Dr B Radke, Dr J Ferguson, Dr M A Habermehl and Dr T Ransley, Bureau of Rural Sciences.

Fusion of Light Ions with Heavy Nuclei Near the Fusion Barrier by Dr M DASGUPTA, Dr D J HINDE, Dr C R MORTON, R D BUTT and A C BERRIMAN with Prof P R S Gomes, University of Fluminense, Niterói, Brazil; Prof A Szanto de Toledo, University of Sao Paulo, Brazil.

Influence of Projectile Breakup on Fusion by Dr M DASGUPTA, Dr D J HINDE and Dr C R MORTON with Dr K Hagino, University of Washington, Seattle, USA.

Applications of Fusion Barrier Distributions by Dr M DASGUPTA and Dr D J HINDE with Prof N Rowley, Institut de Recherches Subatomiques, Strasbourg, France.

All-order Coupled Channels Calculations by Dr M DASGUPTA, Dr D J HINDE and Dr C R MORTON with Prof I J Thompson, University of Surrey, Guildford, UK.

High-K Isomers by Prof G D DRACOULIS with Prof P M Walker, University of Surrey, UK; Dr D M Cullen, University of Liverpool, UK.

High-K Isomers in Hafnium by Prof G D DRACOULIS with Dr F G Kondev and Dr R Janssens, Argonne National Laboratory, USA.

Spectroscopy of Very Heavy Nuclei by Prof G D DRACOULIS with Prof J F Sharpey-Schafer, National Accelerator Centre, South Africa; Prof P A Butler, University of Liverpool, UK.

Spectroscopy of Heavy Nuclei by Prof G D DRACOULIS and Dr A P BYRNE with Prof A R Poletti, University of Auckland, NZ.

Uptake and Long-Term Retention of ^{99}Tc in Humans by Dr L K FIFIELD, Dr R G CRESSWELL

and Dr P A HAUSLADEN with Dr J P Day, Manchester University, UK.

Tracing Releases of Plutonium from the Mayak Production Plant, Southern Urals, Russia by Dr L K FIFIELD, Dr R G CRESSWELL and Dr P A HAUSLADEN with Dr D Oughton, Agricultural University of Norway.

Measurements of ^{59}Ni , ^{36}Cl and ^{41}Ca in Fragments of the Canyon Diablo Meteorite by Dr L K FIFIELD, Dr R G CRESSWELL and Dr P A HAUSLADEN with Prof G Herzog, Rutgers University, New Brunswick, New Jersey, USA.

Uptake by Humans of Plutonium by Dr L K FIFIELD and Dr R G CRESSWELL with Prof N D Priest, Middlesex University, UK.

Long-Term Retention and Excretion of Plutonium by the Human Female by Dr L K FIFIELD and Dr R G CRESSWELL with Dr D Newton and Dr R J Talbot, AEA Technology, Harwell, UK.

Hydrogeological Studies of Clay Aquifers in North-West Europe using ^{36}Cl by Dr L K FIFIELD and Dr R G CRESSWELL with Dr J-L Michelot, Universite de Paris Sud, Orsay, France.

Retreat Rate of the Drakensberg Escarpment, SE Africa, Using ^{36}Cl Produced *In Situ* by Dr L K FIFIELD and Dr R G CRESSWELL with Prof M Summerfield, University of Edinburgh, Scotland.

Dating of Ice in Temperate-Region Glaciers with ^{32}Si by Dr L K FIFIELD and Dr R G CRESSWELL with Dr U Morgenstern and Dr A Zondevan, Geological and Nuclear Sciences, Lower Hutt, New Zealand.

The History of Fires in the Amazon during the Holocene by Dr L K FIFIELD and Dr R G CRESSWELL with Prof P R Gomes and Dr G dos Santos, Universidade Federal Fluminense, Niterói, Brazil.

Heavy Ion Detection with Thin Si-Detectors by Prof T R OPHEL and Dr H TIMMERS with Dr R G Elliman, EME; Dr H Whitlow and Y Zhang, Lund Institute of Technology, Lund, Sweden.

Evaluation of the Efficacy of NRA and ERD in the Characterization on SiON Films by Prof T R OPHEL and Dr H TIMMERS with Dr R G Elliman, EME; S Walker, McMaster University, Ontario, Canada.

Hydrogen Detection with Heavy Ion ERD by Prof T R OPHEL and Dr H TIMMERS with Dr R G Elliman, EME; L Wielunski, CSIRO Telecommunications and Industrial Physics, Lindfield, NSW.

Triaxial Rotor Model and U(6/20) Supersymmetry Descriptions of ^{191}Ir and ^{193}Ir by Dr A E STUCHBERY with Dr S Kuyucak, Department of Theoretical Physics, ANU; Dr P Van Isacker, GANIL, France; Dr E Bezakova, Royal Adelaide Hospital.

Measurement of Nuclear g-Factors and Investigation of Transient Magnetic Fields by Dr A E STUCHBERY with Prof H H Bolotin, University of Melbourne.

Nuclear Moments and Structure Changes in Exotic Nuclei by Dr A E STUCHBERY with Dr P F Mantica, Michigan State University, USA.

Nuclear Structure through Measurements of g-Factors in even Xe Isotopes by Projectile Excitation by Dr A E STUCHBERY with Prof N Benczer-Koller, Rutgers University, USA; Prof K-H Speidel, University of Bonn, Germany; Dr A Aprahamian, Notre Dame, USA; Dr A Macchiavelli, Lawrence Berkeley Laboratory, USA.

In-Beam Studies of Local Magnetism using Recoil Implantation by Dr A E STUCHBERY with Dr A A Tulapurkar and Dr S N Mishra, Tata Institute, India.

Compositional Ion Beam Analysis of YBCO Superconducting Films by Dr H TIMMERS with L Wielunski and C Foley, CSIRO Telecommunications, Lindfield.

Optical Sciences Centre

Observation of Polarization-Locked Vector Solitons in an Optical Fiber by Dr N AKHMEDIEV with Dr S T Cundiff, University of Colorado, USA; Drs B C Collings and W H Knox, Lucent Technologies, USA; Dr J M Soto-Crespo, Instituto de Optica, Spain; Dr K Bergman, Princeton University, USA.

Asymmetric Partially Coherent Solitons in Saturable Nonlinear Media by Dr N AKHMEDIEV with Dr W Krolikowski, Laser Physics Centre, ANU; Dr N M Litchinitser and Prof G P Agrawal, The Institute of Optics and Rochester Theory Center of Optical Science and Engineering, University of Rochester, USA.

Dynamics of Quadratic Soliton Excitation by Dr N AKHMEDIEV with Dr D Artigas and Dr L Torner, Polytechnic University of Catalonia, Spain.

Multisoliton Regime of Pulse Generation by Lasers Passively Mode-Locked with a Slow Saturable

Absorber by Dr N AKHMEDIEV with Dr J M Soto-Crespo, Instituto de Optica, Spain.

Multi-Pulse Operation of a Ti: Sapphire Laser Mode-Locked by an Ion-Implanted Semiconductor Saturable Absorber Mirror by Dr N AKHMEDIEV with Prof B Luther-Davies and Dr M J Lederer, Laser Physics Centre, Drs H H Tan and C Jagadish, Electronics Materials Engineering, ANU; Dr J M Soto-Crespo, Instituto de Optica, Spain.

Multi-Component Pulse Generation and Propagation in Optical Fibers by Dr N AKHMEDIEV with Dr G Town, University of Sydney.

Multilevel Soliton OTDM Dense Wavelength Division Multiplexing Ultra-High Bandwidth Transmission System by Dr N AKHMEDIEV with Prof P Chu, University of New South Wales; Prof M Ablowitz, and Dr S Chakravarty, University of Colorado, USA; Prof W Song, Shanghai Jiaotong University China.

Hamiltonian versus Energy Diagrams in Soliton Theory by Dr N AKHMEDIEV and Dr A ANKIEWICZ with Prof R Grimshaw, Monash University .

New Approach to Stability of 2D Beams in Nonlinear Media by Dr N AKHMEDIEV and Dr A ANKIEWICZ with Prof P Chu, University of New South Wales.

Annealing Properties of HC-PECVD Germanosilica and their Application to Device Post-Tuning by Dr A ANKIEWICZ with Drs M Bazylenko and B Wu, University of New South Wales.

Singularity Analysis, Balance Equations and Soliton Solution of Nonlocal Complex Ginzburg-Landau Equation by Dr A ANKIEWICZ and Dr N AKHMEDIEV with Prof P Winternitz, University of Montreal, Canada.

Parametric Wave Interactions and Parametric Solitons by Prof Yu S KIVSHAR with Prof R Sammut and Dr A Buryak, Australian Defence Force Academy, University College, University of New South Wales.

Soliton Stability in Discrete Models by Prof Yu S KIVSHAR with Dr M Johansson, The Swedish National Academy of Sciences, Sweden.

Kink Dynamics in Discrete Lattices by Prof Yu S KIVSHAR with Dr A Champneys, Department of Engineering Mathematics, University of Bristol, Bristol, UK.

Dynamics of Magnetic Solitons in Thin Films by Prof Yu S KIVSHAR with Prof A Slavin, Department of Physics, Oakland University, USA; Prof H Benner, Darmstadt Technical University, Darmstadt, Germany.

Parametric Solitons in QPM Superlattices by Prof Yu S KIVSHAR with Dr O Bang and Prof P L Christiansen, Technical University of Denmark, Lyngby, Denmark.

Multistep Cascading and Multicolour Solitons by Prof Yu S KIVSHAR with Prof S Saltiel, Department of Physics, University of Sofia, Sofia, Bulgaria.

Stability of the Bose-Einstein Condensates with Attractive Interaction by Prof Yu S KIVSHAR with Dr L Berge, Commissariat a L'Energie, France.

Bose-Einstein Condensation by Prof Yu S KIVSHAR and Dr E A OSTROVSKAYA with Profs D Anderson and M Lisak, Department of Electromagnetic Theory, Chalmers Technical University, Goetheborg, Sweden.

Interaction of Vector Solitons by Prof Yu S KIVSHAR and Dr E A OSTROVSKAYA with Dr Z Chen, San Francisco State University, San Francisco, USA; Prof M Segev, Department of Electrical Engineering, Princeton University, USA.

Multidimensional Vector Solitons by Prof Yu S KIVSHAR and Dr E A OSTROVSKAYA with Profs D Anderson and M Lisak, Department of Electromagnetic Theory, Chalmers Technical University, Goetheborg, Sweden.

Instability of Multidimensional Vector Solitons by Prof Yu S KIVSHAR and Dr E A OSTROVSKAYA with Prof V Perez-Garcia and Garcia-Ripoll, Departamento de Matematicas, Universidad de Castilla-La Manch, Spain.

Planar Lightwave Circuits Program by Prof J D LOVE with University of New South Wales; RMIT University; Melbourne; University of Sydney; Royal Institute of Technology, Stockholm; Ericsson Australia Pty Ltd.

Add/Drop Optical Wavelength Filters by Prof J D LOVE with OFT Associates, USA; Department of Communications, Canada.

Characterisation of Optical Fibre Couplers by Prof J D LOVE with AOFR Pty Ltd; University of Melbourne.

Plasma Research Laboratory

Soft X-ray Measurements on H-1NF by Dr B D BLACKWELL and Dr J HOWARD with Associate Prof A D Cheetham, University of Canberra.

RF Plasma Wave Studies in H-1NF by Dr G G BORG, Dr I V KAMENSKI and Dr D G MILJAK with Dr T Seki, National Institute for Fusion Science, Japan.

Plasma Antenna Concept Device by Dr G G BORG and Prof J H HARRIS with Dr N M Martin, Defence, Science and Technology Organisation.

Stereo Digital Video by Prof R W BOSWELL and SP3 Group with Compucat.

HARE by Prof R W BOSWELL and SP3 Group with Prof D MacKenzie, Dr B James and Dr I Falconer, University of Sydney.

Etching of Si/Ge Films by Prof R W BOSWELL and SP3 Group with Prof G Turban, University of Nantes, France.

Plasma Deposition of Palladium by Prof R W BOSWELL and SP3 Group with Dr P Brault, University of Orleans, France.

Phase Sensitivity Polarimetry for Measurement of Plasma Density and Finite Pressure Effects in Torastron CHS by Dr J HOWARD with Dr K Tanaka, National Institute for Fusion Science, Japan.

Fibre Optic Probes for Plasma Diagnostics by Dr J HOWARD with V Everett and Prof G Woolsey, University of New England.

Measurement of Electric Field in H-1NF Using Laser Induced Fluorescence Techniques by Dr J HOWARD with Dr B Zhang and Associate Prof B W James, University of Sydney.

Current Profile Diagnostics for NSTX by Dr J HOWARD with Prof R Katia, Princeton Plasma Physics Laboratory, USA.

Electron Cyclotron Heating of Plasma in Stellarators by Dr M G SHATS with Dr K Nagasaki, Kyoto University, Japan.

High Confinement Studies in Stellarators by Dr M G SHATS with Prof K Toi, National Institute for Fusion Science, Japan.

Development of a Quasi-Optical Transmission Line for a High-Power Microwave Gyrotron by Dr M G SHATS with Prof M Sato, National Institute for Fusion Science, Nagoya, Japan.

Application of Novel Signal Analysis Techniques to the Plasma Turbulence by Dr M G SHATS with Dr X H Shi, Central Queensland University.

Simulations of Sheath Dynamics during Plasma-Based Ion Implantation by Dr T E SHERIDAN with Prof P K Chu, City University of Hong Kong.

Modelling the Launching, Propagation and Interaction of Ion-Acoustic Solitons by Dr T E SHERIDAN with Prof K E Lonngren, University of Iowa, USA.

Theoretical Physics

Electron Correlation and Metal-Insulator Transition by Dr M P DAS with Prof D Neilson, University of New South Wales.

Fluctuations in Mesoscopic Systems by Dr M P DAS with Dr F Green, CSIRO, Sydney.

Magnetic Properties of High- T_c Superconductors by Dr M P DAS with Prof S X Dou, University of Wollongong.

Electronic Structure of Metallic Oxides by Dr M P DAS with Dr K Kokko, University of Turku, Finland.

Text on Fluid and Plasma Dynamics by Prof R L DEWAR with Prof R J Hosking, University of Brunei.

Fermi Acceleration in ECR Plasmas by Prof R L DEWAR with Dr C I Ciubotariu, University of Lethbridge, Canada.

Implementation of Quadratic-Flux Minimising Curves in the PIES Code by Prof R L DEWAR with Dr S R Hudson, University of Wisconsin, USA; Dr D A Monticello, PPPL, Princeton, NJ, USA.

Resistive Magnetohydrodynamic Spectra for Tokamak and Stellarator Plasmas by Dr H J GARDNER with Prof R G Storer, School of Chemistry, Physics and Earth Sciences, The Flinders University of South Australia.

Impurity Effects in Mesoscopic Systems by Dr M GULACSI with Prof A Rosengren and A Juozapavicius, Royal Institute of Technology (KTH), Stockholm, Sweden; Dr S Caprara, University of Rome, Italy.

Effects of Phonons on Magnetic Impurities by Dr M GULACSI with Dr A R Bishop, Los Alamos National Laboratory, USA; Dr A Bussmann-Holder, Max-Planck Institut, Stuttgart, German; Dr G Honner, Ben-Gurion University, Israel.

Cluster Formation in Random Spin Systems by Dr M GULACSI with Prof Zs Gulacsi, University of Debrecen, Hungary.

Metal-Insulator Transition in Strongly Correlated Electron Systems by Dr M GULACSI with Prof K S Bedell, Boston College; Dr J Gubernatis, Los Alamos National Laboratory, USA.

Convergent Close-Coupling Theory of Double Ionisation by Photon and Electron Impact by Dr A S KHEIFETS with Dr I Bray, Flinders University of South Australia.

Electron Momentum Density Studies in Metals and Metal Oxides by Dr A S KHEIFETS with Dr M Ford, Flinders University of South Australia.

Electron Impact Double Ionisation of the Helium Atom by Dr A S KHEIFETS with Prof A Lahmam-Bennani, University of Paris — Orsay.

Coincident Compton Scattering from Solids by Dr A S KHEIFETS with Prof F Bell, University of Munich.

Circular Dichroism in Atomic Double Photo-ionisation by Dr A S KHEIFETS with Prof A Yagishita, Photon Factory, High Energy Accelerator Research Organization.

Spontaneous Coherence and Nonequilibrium Phase Transitions in Complex Microscopic and Mesoscopic Systems by Dr S Y KUN with Prof H A Weidenmüller, Max-Planck Institute for Nuclear Research, Heidelberg, Germany.

Macroscopic Schrödinger-Cat States in Complex Many-Body Quantum Systems by Dr S Y KUN with Dr A V Vagov, University of Western Australia; Dr O K Vorov, University of Sao Paulo, Brazil.

Spontaneous Clustering and Slow Decoherence in Highly Excited Complex Quantum Systems by Dr S Y KUN and Dr B A ROBSON with Dr A V Vagov, University of Western Australia.

Magnetic Dipole Properties in Collective Nuclei by Dr S KUYUCAK with Prof B R Barrett, University of Arizona.

Strongly Correlated Electron Systems and Density Matrix Renormalization Group Methods by I MCCULLOCH with Prof A Rosengren, Department of Physics/Theoretical Physics, Royal Institute of Technology (KTH), Stockholm, Sweden.

Fission and Fusion Reactions by Dr B A ROBSON with Prof G Do Dang, Université de Paris Sud, France.

Antiproton Scattering by Dr B A ROBSON with Prof Zhang Yu-shun, Institute of High Energy Physics, Academia Sinica, Beijing, PR China.

Gravitational Wave Data Analysis by Dr S SCOTT with Prof D McClelland, ANU; Prof B Whiting, University of Florida, USA (There is a Memorandum of Understanding with LIGO for this project).

Electromagnetic Corrections to Hadronic Processes by Dr W S WOOLCOCK with A Gashi, Dr E Matsinos and Prof G Rasche, University of Zürich, Switzerland; Prof G C Oades, University of Aarhus, Denmark.

MoUs and Collaborative Agreements

International Collaborative Agreements

The Research School of Physical Sciences and Engineering holds 37 international collaborative/cooperative agreements and/or memorandums of understanding with the following institutions and organisations:

- ◆ Samsung Electronics Co Ltd, Korea
- ◆ Shanghai Institute of Technical Physics (SITP), Chinese Academy of Sciences
- ◆ The Physics Department, University of Pretoria
- ◆ Institute of Advanced Energy, Kyoto, Japan
- ◆ Tsinghua University, Beijing, China
- ◆ The European Union-Australia Science & Technology Agreement, DIST
- ◆ Deutscher Akademischer Austauschdienst (DAAD) Exchange Service
- ◆ ANU-Engineering & Physical Sciences Research Council Agreement (ANU-EPSRC), UK (The ANU-EPSRC agreement in effect covers a range of UK universities)
- ◆ Beijing University, China
- ◆ National Institute for Fusion Science, Nagoya, Japan
- ◆ Lockheed Martin Energy Research Corporation, Oak Ridge National Laboratory, USA
- ◆ L'Ecole Polytechnique, Paris, France
- ◆ Royal Institute of Technology, Stockholm
- ◆ Ericsson Components AB, Stockholm
- ◆ British Telecom Laboratories, UK

- ◆ Cambridge University, UK
- ◆ Telecom Korea, Seoul
- ◆ OFT Associates, USA
- ◆ Department of Communications, Ottawa
- ◆ ATLAS Accelerator Facility, Argonne National Laboratory, USA
- ◆ Physics Division, Lawrence Berkeley Laboratory, USA
- ◆ HHRIF, Oak Ridge National Laboratory, USA
- ◆ Physics Department, University of Jyväskylä, Finland
- ◆ National Accelerator Facility and FRD, South Africa
- ◆ GANIL IN2P3, France
- ◆ Hahn-Meitner Institute, Berlin, Germany
- ◆ RCNP, Osaka, Japan
- ◆ Institute of Nuclear Physics, Leuven, Belgium
- ◆ Ericsson Fibre Optic Research Centre, Stockholm
- ◆ British Telecom Research Laboratories, UK
- ◆ Bell Laboratories, USA
- ◆ Lucent Technologies (an offshoot of Bell Labs)
- ◆ Princeton Plasma Physics Laboratory, Princeton University, USA
- ◆ Stanford Linear Accelerator Center, Stanford Sychrotron Radiation Laboratory, USA
- ◆ Institute of Mathematics Modelling, Technical University of Denmark
- ◆ COBRA Inter-University Research Institute on Communication Technology, Eindhoven UTech, The Netherlands
- ◆ National Laboratory for Infrared Physics, Shanghai Institute of Technical Physics, Chinese Academy of Sciences, RPC
- ◆ The University of Canberra
- ◆ The University Wollongong, NSW
- ◆ University Queensland
- ◆ The University of South Australia
- ◆ Griffith University
- ◆ Curtin University of Technology, Western Australia
- ◆ University of New England
- ◆ University College, Canberra, University of New South Wales
- ◆ Monash University, Victoria
- ◆ James Cook University, Queensland
- ◆ University of Melbourne
- ◆ University of New South Wales
- ◆ The University Sydney
- ◆ Central Queensland University
- ◆ Flinders University of South Australia
- ◆ University of Western Australia
- ◆ Faculty of Business and Technology, University of Western Sydney
- ◆ AGEN Pty Ltd
- ◆ Ericsson Australia Pty Ltd, Melbourne
- ◆ AOFR Pty Ltd, Fyshwick, ACT
- ◆ Siemens Ltd, Sydney
- ◆ Photonic Technologies Pty Ltd, Sydney
- ◆ Hypatia Analytic Thought Pty Ltd, Melbourne
- ◆ The Powerhouse, Museum of Applied Arts & Sciences, Sydney

National Collaborative Agreements from 1994

The School holds 28 national collaborative agreements under the IAS/Other Australian University Collaboration Scheme and has various independent agreements with Australian industries:.

- ◆ Royal Melbourne Institute of Technology
- ◆ Macquarie University
- ◆ La Trobe University
- ◆ University of Newcastle

Social Sciences, Research School of

Democratic Institutions, Centre for

APEC social safety net survey by Dr S BESSELL, funded by AusAID and prepared for the APEC leaders meeting with Dr J Gordon, Centre for International Economics, Canberra.

Economic Policy Research, Centre for

The unemployment trap meets the age-earnings profile: an examination of the extent of and contingencies associated with welfare traps in the presence of returns to on-the-job training by Prof B CHAPMAN with J Jordan and K Oliver, Commonwealth Department of Family and Community Services, and Prof J Quiggin, James Cook University.

Analysing trends in income and consumption inequality in Australia by Dr G BARRETT with Dr T Crossley, ANU and Dr C Worswick, University of Melbourne.

Deriving the statistical properties of tests for Lorenz dominance and stochastic dominance, and the statistical properties of inequality and poverty indices by Dr G BARRETT with Dr S Donald, Boston University.

Unemployment, consumption smoothing and the demand for durables by Dr T CROSSLEY with Prof M Browning, University of Copenhagen.

Uptake of benefit payments by immigrants to Canada by Dr T CROSSLEY with Dr C Worswick, University of Melbourne and Dr T McDonald, University of Tasmania.

A distributional analysis of prescription drug subsidies by Dr T CROSSLEY with Prof M Veall, Dr P Grootendorst and S Korkmaz. McMaster University, Canada.

Physician responses to Billings caps: evidence from 3 provinces by Dr T CROSSLEY with Prof J Hurley and Dr P Grootendorst, McMaster University.

Progress on child poverty in Canada? by Dr T CROSSLEY with Dr L Curtis, Dalhousie University.

Demand for training among the unemployed by Dr T CROSSLEY with Prof B Chapman, ANU and Dr T Kim, York University, Canada.

Corporatisation by Dr R PITCHFORD with Prof S King, University of Melbourne.

Attribution hierarchies by Dr R PITCHFORD with Dr K Meagher, University of New South Wales.

Demography Program

Persian annotated bibliography on demographic literature in Iran by Dr M J ABBASI-SHAVAZI with Prof A Mehryar, Institute for Research on Planning and Development, Iran.

Poverty and environment in the Asia-Pacific Region by Dr A HAYES with Prof M V Nadkarni, Gulbarga University, Karnataka, India, Prof Y-P Kim, Korea Institute of Public Administration and Prof Y Zheng, Chinese Academy of Social Sciences.

Population and development research in Eastern Indonesia by Prof G W JONES, Dr T H HULL and Dr A C HAYES with colleagues at the Population

and Manpower Research Centre, Indonesian Academy of Science (LIPI).

The growth dynamics of seven large cities in Indonesia by Prof G W JONES with Dr S G M Mamas and T Sastrasuanda, Indonesian Central Bureau of Statistics.

Study of marriage and divorce in Lombok Prof G W JONES with Drs Ramali, University of Mataram, West Nusatenggara, Indonesia.

Employment change in extended metropolitan regions in East Asia by Prof G W JONES with Dr C-L Tsay, Academia Sinica, Taipei and Dr B Bajracharya, Queensland University of Technology.

Provincial views of the African fertility transition by Dr D LUCAS with Dr T Jhamba, University of Zimbabwe.

Branch migration by Dr D LUCAS with Dr N Parr, Macquarie University.

Negotiating the Lifecourse by Prof P McDONALD with Dr D Mitchell and Prof R Jones, ANU and Dr J Baxter, University of Tasmania.

Demographic and health transitions in the Balkans, 1950–1990 by Dr C WILSON with Dr A Gjonca, London School of Economics.

Director's Section

Democratic institutional design by Prof H G BRENNAN with Prof A Hamlin, University of Southampton.

The analytics of trust and courts by Prof H G BRENNAN with Prof H Kliemt, Georg Mercator University, Duisburg.

The Buchanan Collected Works by Prof H G BRENNAN with Prof H Kliemt, Georg Mercator University, Duisburg and Prof R Tollison, Mississippi University.

Ethics and economics by Prof H G BRENNAN with Prof L Lomasky, Bowling Green State University.

Fiscal constitutions by Prof H G BRENNAN with Prof G Eusepi, University of Rome La Sapienza.

Australian electoral change by Prof I McALLISTER with Dr C Bean, Queensland University of Technology and Dr D Gow, University of Queensland.

Russian politics in the postcommunist era by Prof I McALLISTER with Prof S White, University of Glasgow.

The Northern Ireland peace process by Prof I McALLISTER with Prof B Hayes, Queen's University, Belfast.

Commonalities in conditionals, probabilities and modalities by Prof P PETTIT with Dr P Menzies and Dr D Nolan, Macquarie University.

The theory of desire as belief and its relevance for decision theory by Prof P PETTIT with Prof A Hajek, California Institute of Technology.

The active, social aspect of mind by Prof P PETTIT with Prof V McGeer, New York University.

Economics Program

The role of the family in the labour market adjustment of immigrants by Dr D COBB-CLARK with Dr C Worswick, Carleton University, Canada and M Connolly, Chatham College.

The effect of legalisation on wage rates by Dr D COBB-CLARK with Dr S Kossoudji, University of Michigan.

Women's sub-minimum pay and occupational concentration before and after amnesty by Dr D COBB-CLARK with Dr S Kossoudji, University of Michigan.

The effects of the sources and concentration of campaign contributions on electoral outcomes in recent US House elections by Dr D DHARMAPALA with Dr K Filip Palda, Ecole Nationale d'Administration Publique, University of Quebec.

The impact of immigration on the educational and occupational choices of the native-born in the US, 1880–1924 by Dr D DHARMAPALA with Dr G Gary Richardson, University of California, Irvine.

Jobs, gender and inequality: a comparative study by Prof R G GREGORY with Dr J Borland, University of Melbourne and Prof P Sheehan, Victoria University of Technology.

The future governance of Australia Dr M KEATING with Profs P Weller and J Wanna, Griffith University and Dr G Davis, Queensland Premier's Department.

Negotiating the Lifecourse by Dr D MITCHELL with Profs F Jones and P McDonald, ANU and Dr J Baxter, University of Tasmania.

Business cycle analysis by Prof A R PAGAN with Drs D Harding and P Summers, Melbourne Institute, University of Melbourne.

Problems of the GMM estimator: forecasting for policy by Prof A R PAGAN with Dr J Robertson, Federal Reserve Bank of Atlanta.

The steady inflation rate of economic growth by Prof J D PITCHFORD with Dr M Dungey, La Trobe University.

History Program

Theoretical and methodological comparisons of oral and written sources in the historical study of domestic service in Australia in the twentieth century by Prof B HIGMAN with Dr P Hamilton, University of Technology Sydney.

Death in England by Prof P JALLAND with Prof R Houlbrooke, University of Reading, Dr C Gittings, National Portrait Gallery, London, and Dr R Horrox, Fitzwilliam College, Cambridge.

Law Program

Reintegrative shaming experiments (RISE) by Prof J BRAITHWAITE and H STRANG with Prof L Sherman, University of Pennsylvania.

New approaches to peace and security in Northeast Asia: the role of nongovernmental actors by Dr A KENT with Assoc Prof W Tow and Drs R Bleiker and M Hanson, University of Queensland, T Hoshino, Osaka University, H Chun, Pusan National University, O Greene, Bradford University and H Young-Joo, Pusan University of Foreign Affairs.

Sociology Program

Social and other correlates of adolescent idiopathic scoliosis by Prof F JONES with Prof T Taylor, University of Sydney.

Diversity, identity and active citizenship by Prof F JONES with Dr P Smith and others, University of Queensland.

Negotiating the Lifecourse by Prof F JONES with Dr D Mitchell and Prof P McDonald, ANU and Dr J Baxter, University of Tasmania.

Integrated public use microdata series international (IPUMSi), a National Science Foundation project for integrating international census

microdata by Prof F JONES with Prof R McCaa and Prof S Ruggles, University of Minnesota.

Managers, experts, and organisations: contemporary careers and organisational change by Prof J WAJCMAN with Assoc Prof B Martin, Flinders University of South Australia.

Urban and Environmental Program

'Seven Years On' oral history project by Dr P READ with J Huggins and the Oral History Unit, National Library of Australia.

Resource and Environmental Studies, Centre for

Assessment of water quality in the Belmore River for better management by Dr S G BEAVIS with the NSW Department of Agriculture.

Institutions & Policy: Individual Transferable Quota in Fisheries Management by R D CONNOR with the Australian Fisheries Management Authority and ABARE.

Modelling the effects of land use and climate on erosion, phosphorus and sediment movement in the Namoi River (ANU16) and Integrated Catchment Management System project (CWA20) by Barry CROKE and A J JAKEMAN with CSIRO Land and Water and LWRRDC.

Seasonal habitat use, food resources and Aboriginal perceptions of the feral pig *Sus scrofa* in the Arafura wetlands, Northern Territory by A DEE with Ramingining Community and Wanga Djakamirr Ranger Unit, Parks and Wildlife Commission of the Northern Territory and CSIRO Wildlife and Ecology.

Social science and interdisciplinary R&D for resource and environmental management by Dr S DOVERS with University of Wollongong and Charles Sturt University.

Uncertainty, ecology and policy by Dr S DOVERS with Charles Sturt University and Middlesex University, UK.

Trade and environment: issues for Australian fisheries by Dr S DOVERS, S BACHE with University of Tasmania.

Hydrologic impacts of climate change on inflows to Perth by J EVANS and S SCHREIDER with CSIRO Land and Water.

Groundwater modelling: Modelling of the Jemalong and Wyldes Plains Irrigation District, Lake Cowal and Bland Creek aquifer system by R LAMPAYAN, F GHASSEMI, A J JAKEMAN and I WHITE with NSW Department of Land and Water Conservation.

Land and Water resources: Availability and limitations of water and soil resources of the Mekong Delta with respect to rice-shrimp farming by Dr F GHASSEMI with University of Sydney, CSIRO Land and Water, University of Western Sydney and Can Tho University in Vietnam.

Groundwater modelling: Three dimensional simulation of seawater intrusion: Home Island case study by Dr F GHASSEMI with University of Waterloo, Canada and ECOWISE Environmental.

APEC Virtual Centre for Environmental Technology Exchange by Lance HEATH (WRFA) with DISR.

Hydrology, Water Quality of Coastal Catchments in NSW and Implications for Aquatic and Human Health by Lance HEATH (SRFA) with Acid Sulfate Soils Program (ASSPRO).

Integrated water resources assessment and management framework: a case study of the Upper Chao Phraya headwaters, Northern Thailand by A J JAKEMAN, M SCOCCIMARRO, H ROSS, A J WALKER, C DIETRICH, S Yu SCHREIDER, W MERRITT, N ARDLIE, D HOULDER and C D Buller with Royal Project Foundation, Department of Land Development and Kasetsart and Maejo Universities in Thailand and Australian Centre for International Agricultural Research.

Integrated Catchment Management System: Namoi case study by A J JAKEMAN with CSIRO Land and Water and LWRRDC.

Impacts and implications of farm dams on streamflow by S Yu SCHREIDER, A J JAKEMAN, S BEAVIS, R NORTHAM, B NEAL with Sinclair Knight Merz and NSW Environment Protection Authority.

Economics of Protected Area Management by R JAMES with CRC for Weed Management Systems and LWRRDC.

Sediment and Nutrient Transport Modelling: EPA National Pollutant Inventory (NPI) Project by Rebecca LETCHER, A J JAKEMAN and W MERRITT with Southern Cross University and NSW EPA.

CHESS — The Central Highlands Environmental Systems Study: Integrated landscape and forest modelling in the Central Highlands of Victoria by Dr D LINDENMAYER *et al* with Division of Plant Industry, CSIRO.

The Tumut Fragmentation Project — studies of the effects of fragmentation on the distribution and persistence of vertebrate fauna by Dr D LINDENMAYER *et al* with Research School of Biological Sciences, ANU, University of Adelaide, Centre for Conservation Biology, Chicago Zoological Society, USA.

Long-term Monitoring of Vertebrate Fauna in the Central Highlands of Victoria by Dr D LINDENMAYER *et al* with University of Adelaide.

Monitoring Regional Moisture Availability for Drought Assessment using AVHRR Data by T McVICAR *et al* with CSIRO Earth Observation Centre.

Regional planning for sustainability: towards adaptive and collaborative models by C MOBBS with LWRRDC and Tropical Savannas CRC.

Land Use Change: Implications for ACT Water Use by L NEWHAM *et al* with Environment ACT.

Linking Catchment Characteristics to Hydrologic Response by L NEWHAM with NSW Department of Land and Water Conservation and Environment ACT.

The ecological economics of social choice: consumers' choices or citizens' deliberations? By SNIEMEYER with LWRRDC and Cambridge Research for the Environment.

Rapid Assessment of Biodiversity (BIORAP) by Prof H A NIX, Dr M F HUTCHINSON, J L STEIN and W SLATER with Division of Wildlife and Ecology, CSIRO, Australian National Herbarium, Department Environment and Conservation, PNG and Bishop Museum in Hawaii.

Wild Rivers by Prof H A NIX, J L STEIN and J STEIN with Environment Australia, Heritage.

Long-term environmental change and landform evolution by Prof C OLLIER with Università di Siena and Terza Università di Roma, Italy and University of Stockholm.

The Economics of Sustainability by Dr J PEZZEY with Resources for the Future, Washington DC.

Tangled Destinies (Land and People Program) by Dr M Smith and Dr L ROBIN with the National Museum of Australia.

The Flight of the Emu: A Centenary History of Ornithology in Australia 1901–2001 by Dr L ROBIN for Birds Australia and the National Council for the Centenary of Federation (History and Education Program).

Indigenous Institutional arrangements in natural resource management by Dr H ROSS *et al* with LWRRDC.

Integrative study of Bangkok by Dr H ROSS with Mahidol University, Thailand.

Social impact assessment by Dr H ROSS with Battelle Seattle Research Center, USA.

Impacts of modernisation and urbanisation in Bangkok by Dr A H ROSS with Mahidol University, Thailand.

Indigenous community wildlife management. International Institute for Environment and Development project by Dr A H ROSS with University of Adelaide and National Centre for Development Studies, Australian National University.

Global Climate Change by Dr D STERN with Boston University.

Ecological Economics Theory by Dr D STERN with Boston University and University of Maryland.

Resilience and Resource Depletion by Dr D STERN with University of York and Boston University.

Environmental Kuznets Curve by Dr D STERN with University of Strathclyde.

Sediment and Nutrient Budget for the Herbert River, far N. Queensland by Prof R J WASSON with J Olley, CSIRO Land and Water and C Barnes, ANU.

Floodplain Formation and Sediment Budget, lower Murrumbidgee River by Prof R J WASSON with J Olley, CSIRO Land and Water.

A Model for Duplex Soil Formation by Prof R J WASSON with G Humphreys, Macquarie University, K Fifield, ANU and J Olley, CSIRO Land and Water.

Sources of Sediment in the L Argyle Catchment, E Kimberley by Prof R J WASSON with A Murray, Risoe National Laboratory, Denmark, J Quade, University of Arizona and G Caitcheon, CSIRO Land and Water.

A ^{137}Cs budget for the Magela Floodplain by Prof R J WASSON with A Murray, Risoe National Laboratory, Denmark.

Floodplain Agriculture and Global Change in N.India by Prof R J WASSON with A K Singhvi, PRL, India, M Sarin, PRL, India, P Vashishtha, University of Delhi, P Srivastava, PRL, India and D Panda, IARI, Delhi.

Local government capacity to deliver environmental outcomes by S WILDRIVER with Brisbane City Council.

Hydrogeology of the Pilliga Sandstone in the Western Coonamble Embayment by Carolann WOLFGANG with DLWC, NSW.

Resource Use and Management: Recharge of fresh groundwater lenses in small islands by Prof I WHITE with University of Technology Sydney, ECOWISE Environmental, Canberra, The Republic of Kiribati and South Pacific Applied Geoscience Commission, Suva, Fiji.

Resource use and management: Management of sulfidic coastal lowlands by Prof I WHITE *et al* with Southern Cross University, CSIRO Land and Water, UNSW, Tweed Shire Council and Charles Sturt University.

Resource use and management: Dielectric techniques for monitoring soil water content and electrical conductivity by Prof I WHITE with Agriculture and Agri-food Canada and CSIRO Land and Water.

Resource use and management: the ethical use of freshwater by Prof I WHITE *et al* with UNESCO, COMEST, Southampton University and Public Works and Water Resources, Egypt.

Resource use and management: Education and the transfer of information on environmental management by Prof I WHITE *et al* with Environmental Industries Diffusion Network, Canberra, CSIRO Land and Water.

The Faculties

Arts Faculty

Arab and Islamic Studies (The Middle East and Central Asia), Centre for

Prof A Saikal, co-director, United Nations University, Tokyo, project on 'Peace and

Democracy in the Middle East with Dr A Schnabel; member, Panel on 'Biological Disarmament: The Agenda for the Next Century', United Nations Institute for Disarmament Research; expert member, International Commission for Security and Cooperation in West Asia, with Toda Institute for Global Peace and Policy Research, Copenhagen Peace Research Institute and Norwegian Institute of International Affairs and Iranian Institute for Political and International Studies; participant, Ditchley Foundation (UK) conference on 'Iran and Iraq: Prospects and Policies'; Centre for World Dialogue (Cyprus) conference on 'Judaism, Christianity and Islam: Divinity in a Political World'.

Classical and Modern European Languages

ARC project, Familial Structures in Roman Italy, by Prof WEAVER with University of Tasmania.

Environmental Capacity Building Project by Prof PAPADAKIS, coordinated by Dr H Weidner, Senior Research Fellow, Research Unit on Norm Building and the Environment, Wissenschaftszentrum, Berlin, and Prof M Jänicke, Free University of Berlin.

ARC-sponsored project on the Future of Governance in Australia by Prof PAPADAKIS with other researchers from across Australia led by Prof P Weller, Griffith University.

Review of social research on waste education by I REEVE carried out by the New South Wales Environment Protection Authority, circulated by the NSW EPA to all waste educators in New South Wales to assist with the development of waste education content and targeting.

Frontières culturelles/A study of xenophobic and xenophilic representations in French and Australian public discourse by Dr L MAURER led jointly by Dr G Zarate, Ecole normale Supérieure de Saint-Cloud in Paris and Prof P Cryle, University of Queensland.

Finalisation and talks on exchange agreements by Ms CARROLI with the University of Bologna and Siena University and the Certification of Italian as a Second Language at ANU with Siena's Università per Stranieri.

The accents of Australian and New Zealand English by Mr ABSALOM with Prof L Canepari, Università Ca' Foscari of Venice.

Report on the provision of language services at the Olympic Games and the training of volunteer language assistants by Dr WINDLE with Prof J Lo Bianco, Language Australia for the Sydney Organising Committee for the Games.

History Department

The Roman Family in Italy: Regionality, database and analysis (Gallivan-Rawson-Weaver-Wilkins) by Emeritus Prof B RAWSON with University of Tasmania.

Sociology Department

Concord Hospital Colorectal Project by Dr O F DENT with Assoc Profs P H Chapuis and R C Newland and Prof E L Bokey, Sydney University and Concord Hospital.

Sydney Older Persons Project by Dr O F DENT with Prof G A Broe and others at the Centre for Education and Research on Ageing, Sydney University and Concord Hospital.

Workforce in internal medicine and paediatrics in Australia by Dr O F DENT with Prof K J Goulston, Sydney University and Royal North Shore Hospital and the Royal Australasian College of Physicians.

The prognostic significance of extensive microsatellite instability in colorectal cancer by Dr O F DENT with Dr C Wright and others at the Conjoint Gastroenterology Laboratory, Royal Brisbane Hospital Research Foundation.

The Structure of the clothing industry by Dr A W GREIG with Prof J F Marceau and colleagues at Australian Expert Group in Industrial Studies at the University of Western Sydney.

Social networks of minority youth at risk of HIV/AIDS by Dr A S KLOVDAHL with colleagues at the Battelle Research Institute, Seattle, Washington, the University of Hawaii at Manoa, the University of Puerto Rico School of Public Health and the Morehouse School of Medicine, Atlanta, Georgia.

Tuberculosis spread and HIV infection in drug users by Dr A S KLOVDAHL with colleagues at the Johns Hopkins University School of Public Health and Hygiene, Baltimore, Maryland.

Tuberculosis spread in drug users by Dr A S KLOVDAHL with colleagues at the Baylor College of Medicine, Houston, Texas.

Research knowledge and decision-making among American and Australian school principals by Dr L J SAHA with Prof B J Biddle, University of Missouri-Columbia.

Education and national development by Dr L J SAHA with Prof I Fägerlind, University of Stockholm.

Privatisation and its impact on hospitals, professions and patients by Dr K N S WHITE with Dr F Collyer, Sydney University.

The sociology of evidence-based medicine by Dr K N S WHITE with Assoc Prof E Willis, Department of Sociology, La Trobe University.

Women's Studies

Cultural politics of commemoration in contemporary Canada and Australia by Dr R KENNEDY at the Centre for Research on Gender Relations, University of British Columbia, Vancouver with Dr L Bell, University of Saskatchewan and Dr J Emberley, University of Northern British Columbia.

Three-year study of Narratives of Disease and Disability discussed by Dr R KENNEDY with scholars at University of British Columbia, Vancouver.

Study of the HIV vaccine clinical trials by Dr H KEANE which are being developed by Dr C Waldby, National Centre in HIV Social Research.

Asian Studies Faculty

The dating of early Javanese inscriptions by Dr J C EADE with Dr L Gislen, Theoretical Physics Department, Lund University, results of this work since published in E J Brill's series *Handbuch der Orientalistik*.

Editing *Identity through History* by Dr K WELLS with Prof Walraven and Dr De Ceuster, Leiden University based on a conference held in Leiden in 1996.

Religion and social change in 20th-century Korea by Dr K WELLS with Prof Walraven and Dr De Ceuster, Leiden University, in this connection, his chapter, 'Providence and Power: Korean Protestant Responses to Japanese Imperialism', accepted for publication in the IAS book *New Aspects of Asian Studies* due for publication in 2000.

National Thai Studies Centre

Thai Program staff provided extensive research support for S Morey, Monash University PhD project.

Dr Tony DILLER, outside examiner for doctoral theses presented for examination by students from La Trobe and Deakin Universities; evaluator for the National Endowment for the Humanities, Washington DC; member, Board of Senior Secondary Studies, Australian Capital Territory.

Economics and Commerce Faculty

Commerce Department

Corporate Social Disclosure Characteristics and the Role of Ethical Investment Trusts by R BURRITT with Lorne Cummings, Macquarie University.

Assessment of Environmental Performance and Appraisal of Staff by R BURRITT with Prof Dr S Shaltegger, University of Lueneburg, Germany and Dr K Kokubu, Kobe University, Japan.

Scholarship in University Business Schools: Cardinal Newman, Creeping Corporatism, and Farewell to the 'Disturber of the Peace' by Prof R CRAIG with J Amernic, University of Toronto and F Clarke, University of Newcastle.

The Internet in Undergraduate Management Education: A Concern for Neophytes Among the Metaphors by Prof R CRAIG with J Amernic, University of Toronto.

The Rhetoric of Teaching Financial Accounting on the Corporate Web: A Critical Review of Content and Metaphor in IBM's Internet Webpage Guide to Understanding Financials, by Prof R CRAIG with J Amernic, University of Toronto.

The *Theatre* of University Research by Prof R CRAIG with F Clarke, University of Newcastle and J Amernic, University of Toronto.

Arbitrators' Perceptions of Accounting Data in Assessing Ability to Pay by Prof R CRAIG with J Amernic, University of Toronto.

Disputes about Disclosure of Financial Information in Arbitration: Cases and Guidelines by Prof R CRAIG with J Amernic, University of Toronto.

Accountability and Rhetoric During a Crisis: Walt Disney's 1940 Letter to Stockholders by Prof R CRAIG with J Amernic, University of Toronto.

Accounting for the Language of Business in Industrial Relations: A Case Study of Metaphor and Thought by Prof R CRAIG with J Amernic, University of Toronto.

Le Quebec, une societe fiscale distincte by Prof R CRAIG with M Blanchette and A Labelle, University of Quebec.

Balancing Debt in the Absence of Money: A Case Study of Documentary Credit in the New South Wales Colony, 1817–1820 by Prof R CRAIG with J Booker, Group Archivist, Lloyds TSB Group, London.

John Croaker, Convict Embezzler by Prof R CRAIG with J Booker, Group Archivist, Lloyds TSB Group, London.

Corporate leadership in twentieth century Australia by Dr G A FLEMING and Dr S VILLE with Dr D Merrett, University of Melbourne.

Debt write-downs and changes in political risk by Dr G A FLEMING with Dr V Hooper, University of New South Wales.

International Organisations and Economic Policy by Dr G A FLEMING with Dr A M Endres, University of Auckland.

Purchasing power parity and the Asian currency crisis by Dr G A FLEMING and Dr R HEANEY with Mr A Razzaghipo.

Ethical inclination of accounting students: A comparative study for three countries by P JUBB with S Haswell and R Weaving, University of Essex.

Cooperative research by B OLIVER with Commonwealth Department of Finance and Administration on use of derivative financial contracts in public sector organisations.

Japanese accounting research projects by Dr A V TRAN with Prof Chitoshi Koga, Kobe University.

Science Faculty

Biochemistry and Molecular Biology Division

Metabolism in trichomonads by Dr C A BEHM with Assoc Prof M R Edwards, School of Biochemistry and Molecular Genetics, University of New South Wales.

Molecular biology of nematodes by Dr C A BEHM with Dr W N Grant, School of Biological Sciences, Flinders University.

Is NO production a feature of severe malaria by Dr I CLARK with Dr T Taylor and Dr M Molyneux, Queen Elizabeth Central Hospital, Blantyre, Malawi.

Release probability modulates short-term plasticity at a large multi-synaptic terminal by Dr J CLEMENTS with Dr S Oleskevich, Dr P Sah.

Direct measurement of specific membrane capacitance in neurons by Dr J CLEMENTS with Dr G Stuart.

Focal stimulation of single visualised terminals: A powerful new technique for investigating synaptic mechanisms by Dr J CLEMENTS with Dr R Grantyn, Developmental Physiology, Institute for Physiology, Humboldt University, Germany.

The regulation of respiration in plants by Prof D A DAY with Prof J Wiskich, University of Adelaide.

Mitochondrial biogenesis in plants by Prof D A DAY with Dr J Whelan, University of Western Australia.

Ammonium transport across peribacteroid membranes from soybean by Prof D A DAY with Dr S Tyerman, Flinders University, South Australia.

Iron transport across symbiotic membranes of soybean by Prof D A DAY with Prof APuppo, University of Nice, France.

Structure, function and regulation of ammonium transporters by Dr S M HOWITT with Dr M Udvardi, Max Planck Institute of Molecular Plant Physiology, Germany, Dr P Ryan, CSIRO, Division of Plant Industry, Canberra, and Dr J Whelan, Biochemistry Department, University of Western Australia.

Development of novel methods for the control of vertebrate pests in Australia by Dr P A JANSSENS with staff of the CSIRO Division of Wildlife and Ecology, the Agricultural Protection Board of Western Australia, the Department of Conservation and Land Management, Western Australia, and the John Curtin School of Medical Research, ANU in the CRC for Biological Control of Vertebrate Pest Populations.

Osmoregulation in parasitic protozoa by Prof K KIRK with Dr G Biagini and Assoc Prof M Edwards,

School of Biochemistry and Molecular Genetics, UNSW.

The molecular basis of antimalarial drug resistance by Prof K KIRK with Dr A F Cowman and Dr M Reed, Walter and Eliza Hall Institute for Medical Research.

Transport of cations in the malaria-infected erythrocyte by Prof K KIRK with Dr H M Staines and Prof J C Ellory, University Laboratory of Physiology, University of Oxford, and Dr V Lew and Dr T Tiffert, Physiology Department, University of Cambridge.

Molecular characterisation of transporters in the malaria parasite by Prof K KIRK with Dr S Krishna and Dr C Woodrow, St Georges Hospital Medical School, London.

Chloride Channels as pharmacological targets by Prof K KIRK with Dr R Z Kozlowski, Dept of Pharmacology, University of Oxford, and Prof G Richards and Prof S Davies, Dept of Chemistry, University of Oxford.

Regulation of germline transcription of T cell receptor V region genes by Dr H C O'NEILL with Dr J Chen, Centre for Cancer Research, Massachusetts Institute of Technology, Cambridge, MA, USA.

Monoclonal antibodies specific for dendritic cells O'NEILL with Dr S Saeland, Schering-Plough Laboratory for Immunological Research, Dardilly, France.

Genomics of Photo-oxidative Damage by Dr B POGSON with Niyogi, UC Berkeley, and Webber, Arizona State University.

Chlorophyll and carotenoid biosynthesis POGSON with DellaPenna, University of Nevada, Reno, USA.

The structural determination of the soluble extracellular domains of the nicotinic acetylcholine receptor by Dr L TIERNEY with Dr Unwin, MRC — Laboratory of Molecular Biology, Cambridge, UK.

Novel expression and purification systems for membrane proteins to obtain material for further biochemical and structural analysis by Dr L TIERNEY with Dr R Spencer, Howard Hughes Medical Institute, California Institute of Technology, USA.

Dr B H van LEEUWEN with the staff of the Vertebrate Biocontrol Cooperative Research Centre, the Pest Animal Control Cooperative Research Centre.

Shigella O-antigen modification project by Dr N K VERMA with Dr A Weintraub, Karolinska Institute, Sweden.

Generation of monoclonal antibodies against Barmah Forest virus by Dr R C WEIR with L Hueston, Centre for Infectious Diseases and Microbiology, Institute for Clinical Pathology and Medical Research, Westmead Hospital.

Characterisation of epitopes for virus-neutralizing monoclonal antibodies to Ross River virus using phage-displayed random peptide libraries by Dr R C WEIR with Dr J Davies, Department of Biochemistry and Molecular Biology, Monash University.

Chemistry Department

Identification of immunologically active constituents contained within medicinal herbs by Dr BARROW with Assoc Prof T K Mukkur, Department of Biological and Physical Sciences, University of Southern Queensland and R Watson, Greenridge Botanicals.

The search for new antibiotics from cultured microfungi herbs by Dr BARROW with Dr M Kotiw, Department of Biological and Physical Sciences, University of Southern Queensland.

Identification and quantification of bioinsecticides from cultured microfungi was commenced herbs by Dr BARROW with Dr R Milner, CSIRO, Division of Entomology.

New rearrangement reactions by Emeritus Prof A L J BECKWITH with Prof D Crich, University of Illinois at Chicago, USA.

ESR studies of captodative radicals by Emeritus Prof A L J BECKWITH with Prof Ch. Rüdhardt and J Brocks, University of Freiburg, Germany.

The preparation of macrocyclic polyethers by Emeritus Prof A L J BECKWITH with Dr B Maillard, University of Bordeaux, France.

New methodologies in Solid Phase Synthesis by Dr C L L CHAI with B Burkett, RSC and Dr B Cornell, CRC Molecular Engineering and Technology: Sensing and Diagnostic Technologies, Sydney.

Emeritus Prof D CRAIG has a joint research program on several projects with the Department of Chemistry, University College London.

Lichenological and chemotaxonomic projects by Prof J A ELIX with a number of national and international researchers including H Streimann (Centre for Plant Biodiversity Research, CSIRO, Division of Plant Industry, Canberra), Dr P M McCarthy (ABRS, Canberra), Dr A W Archer, Herbarium, National Botanic Gardens of NSW, Sydney; Dr G Kantvilas, Tasmanian Herbarium, University of Tasmania, Dr K Kalb (Lichenologisches Institut, Neumarkt, Germany), Dr G Rambold, Botanische Staatssammlung, Munich, Germany, Dr H T Lumbsch & Prof G B Feige (Fachbereich 9/Botanik, Universität Essen, Germany), Dr H Mayrhofer and Dr W Obermayer (Institut für Botanik, Karl Franzens Universität, Graz, Austria), Dr L Ferraro (Universidad Nacional del Nordeste, Corrientes, Argentina), Prof T H Nash (Department of Botany, Arizona State University, Tempe, AZ, USA), Dr Kansri Boonpragob (Ramhamkhaeng University, Bangkok, Thailand), Prof Mohd Wahid bin Samsudin, Prof Laily bin Din (Universiti Kebangsaan Malaysia, Bangi, Selangor, Malaysia), Dr M T Adler (Universidad de Buenos Aires, Ciudad Universitaria, Buenos Aires, Argentina) and Dr S Kondratyuk, University of Kiev, Kiev, Ukraine.

Electronic spectroscopy and *ab initio* molecular orbital studies of the azabenzenes and azanaphthalenes by Dr G FISCHER with Dr P Wormell, University of Western Sydney.

Predictions of the electronic spectra of carbon-cumulenes by Dr G FISCHER with Prof J Maier, University of Basel, Switzerland.

Electronic spectroscopy of fluorobenzene ions by Dr G FISCHER with Prof A Knight, Griffith University.

Various organometallic chemistry projects by Dr M G HUMPHREY with Prof A Persoons, Leuven, Belgium; Profs T Wada and H Sasabe, RIKEN, Japan; Prof O b Shawkataly, USM, Penang; Prof J Heck, Hamburg, Germany; Prof J Nixon, Sussex, UK; Prof M-H Garcia, Lisbon, Portugal and Prof J Vicente, Murcia, Spain.

Structural and mechanistic studies on the cyt. b/f complex found in plant thylakoid membranes, using electron spin resonance and biochemical

modifications by Dr R J PACE with Dr J Anderson, CSIRO, Plant Industry. The design and development of a novel biosensing technology using synthetic ion channels contained in a specifically engineered, solid substrate supported bilayer membrane. A CRC funded project (Centre for Molecular Sensing and Engineering) with Dr R J PACE involving CSIRO Division of Food Processing, Sydney University and several industrial partners.

The use of phosphine analogues to elucidate the insect toxicology of phosphine by Dr G SALEM with S Pratt and Dr J Desmarchelier, CSIRO Entomology.

Energy capture and conversion projects by Prof A M SARGESON with Drs A Mau, P Osvath and W H F Sasse, Division of Chemicals & Polymers, CSIRO, Clayton Vic. and R J Geue, M Lynch, ANU.

Imaging and therapeutic reagents for detection and treatment of disease by Prof A M SARGESON with Dr S Smith, ANSTO, Lucas Heights, NSW, Dr M Tweedle, Bracco Research, Princeton, USA and R J Geue, ANU. At present one system for imaging is being prepared for patenting by ANSTO and ANU.

Model syntheses for porphobilinogen and kainic acid by Prof A M SARGESON with Prof B T Golding, University of Newcastle-on-Tyne and Dr Hammershøi and his students at the University of Copenhagen along with the synthesis of new amino acids.

The elaboration of the ditame complex chemistry by Prof A M SARGESON with R Geue, F Krebs-Larsen and R Hazell at Aarhus University and with K Hegetschweiler at the University of Saarbrücken.

The characterisation of the encapsulated Re^{V} and Re^{VII} sarcophagine complexes has continued and the synthetic procedures, structures deprotonation constants, spectroscopy and redox characteristics have been evaluated by Prof A M SARGESON with L Broge, C E Schäffer, University of Copenhagen; R J Geue, D Hockless and A J Willis, ANU.

Understanding outer sphere electron transfer reactions with proteins by Prof A M SARGESON with Prof J Ulstrup, Technical University, Denmark.

Modelling magnetostructural correlations in dinuclear alkoxo/carboxylate/amidinate-bridged copper(II) complexes by Dr R STRANGER with Dr K S Murray, Monash University.

Computational studies involving the modelling of oxo-, carboxylato-, hydroxo- and peroxo-bridged Mn(III)Mn(III) , Mn(III)Mn(IV) and Mn(IV)Mn(IV) dimers by Dr R STRANGER with Dr J E McGrady, University of York.

High temperature phase equilibria, structure and kinetic studies relevant to ilmenite upgrading processes by Dr R STRANGER with Dr I E Grey, CSIRO Division of Minerals, Clayton.

Modelling non-linear optical properties in metal acetylide complexes of Fe, Ru and Os using density functional theory by Dr R STRANGER with Dr S van Ginsbergen and Prof E J Baerends, Vrije Universiteit, Amsterdam.

Density functional study of the effect of high-spin/low-spin equilibria on metal-metal bonding in binuclear d^5d^5 complexes of Fe, Ru and Os by Dr R STRANGER with Dr T Lovell, The Scripps Research Institute, La Jolla, California.

Forestry Department (School of Resource Management and Environmental Science)

The role of earthworms in wet sclerophyll forest ecosystems by Dr J BAUHUS and S Emmett with Dr J Field, Dr Ryan, CSIRO FFP, Dr Taylor, Forestry Tasmania, S Murphy, Centre for Forest Tree Technology, Victoria, and Dr Blakemore.

Evaluation of soil organic matter as a meaningful indicator of important soil properties and processes in native forest ecosystems by Dr J BAUHUS with Dr Khanna, CSIRO FFP, Dr Hopmans, CFTT, and Dr Weston, University of Melbourne.

The availability of phosphorus associated with different fractions of forest soil organic matter by Mr O'Hara and Dr J BAUHUS with Drs Khanna and Raison, CSIRO FFP.

Fine-root interactions in mixed acacia-eucalypt plantations by Dr J BAUHUS with N Menden and Dr Khanna, CSIRO FFP.

Private Native Forest Management in the Eden Region of NSW by Dr J BAUHUS, Mr Dean, Dr M Buchy and Simon Greenaway.

Price analyses of forest products in regional Australian and world markets by Dr U N BHATI with Australian Forest Growers.

Advice and field assistance on sampling methods for above and below ground tree biomass by Dr C L BRACK with CRC for Greenhouse Accounting, SFNSW, Queensland DPI, UNSW, and Australian Greenhouse Office.

Advice (continuing) by Dr C L BRACK to Department of Conservation and Natural Resources, Victoria (DCNR) on modelling for inventory as part of their State Forest Resource Inventory (SFRI).

Develop urban tree growth models and decision information systems with Canberra Urban Parks and Places (CUPP) by Dr CL BRACK with Drs Banks and James.

Model tree form in commercial plantations using photogrammetrically derived tree heights, automatic stem counts, and known stand environmental parameters by Dr CL BRACK with University of Tasmania and ANM Forest Management.

Public participation in forest planning by Dr M BUCHY with NRE Victoria and DNRE Queensland.

Investigation of novel methods of protecting wood from biological and physical deterioration using chemical additives or substrate modification by Drs P EVANS and S SCHMID, Dr K Schmalzl, CSIRO Division of Forestry and Forest Products, Melbourne and S Heimdal and Drs M Hjertvik and B Bendixen, Jotun, Norway.

Manufacture of low-cost wood-cement composites in the Philippines using plantation grown Australian tree species with Dr B Coutts and P Warden, CSIRO Forestry and Forest Products, Melbourne and Dr F Soriano, Dr D Eusebio and R Cabangon, Forest Products Research and Development Institute in the Philippines.

Weathering of chemically modified wood surfaces by Dr P EVANS with Prof N Owen Department of Chemistry and Biochemistry, Brigham Young University, Utah, USA and Dr A Wallis, CSIRO Division of Forestry and Forest Products, Melbourne.

Photodegradation and improvement of weather resistance of wood by Dr P EVANS and Dr M

Kiguchi, Forestry and Forest Products Research Laboratory, Tsukuba, Japan.

Research into aeolian accretion of dust into the Eastern Australian landscape by Dr J FIELD as a member of CRC LEME.

Aeolian contribution to soils in Boorowa region by C L McINTOSH and Dr J FIELD with Dr C L Moore, University of Canberra.

Land use change: Implications for ACT water use by Dr J FIELD, P BARNETT and L NEWHAM, all of ICAM, ANU with Environment ACT.

Cost of Revegetation by Dr J FIELD and J SCHIRMER with Greening Australia Inc and Environment Australia.

Analysis of the effects of initial spacing on branch pattern, size and condition in young eucalypt plantations by Dr R JAMES and Research Division State Forests NSW.

An investigation of how environmental factors might influence the leaf area of plantation grown *Eucalyptus nitens* in Tasmania by Dr R JAMES with A Rumley and Dr L Pinkard, Forestry Tasmania.

Genetic parameter estimates for growth and wood properties in *Pinus pinaster* (Aiton) in WA by M HALL with Prof P J KANOWSKI and WA CALM.

Inheritance of wood properties in Slash X Caribbean Pine Hybrids by Prof P J KANOWSKI with D Kain and Dr K Harding, Queensland Forestry Research Institute and North Carolina State University, USA.

Social and economic aspects of farm forestry by D RACE, J SCHIRMER and Prof P J KANOWSKI with the support of and in partnership with a variety of collaborators, including the CRC for Sustainable Production Forestry and the Forest Industries Branch of Agriculture, Forestry and Fisheries of Australia.

Oil palm development in Indonesia by A CASSON with Prof P J Kanowski and CIFOR.

Sustainability of agriculture in imperata infested uplands of the Philippines with improved fallow system by Dr S MAHENDRARAJAH and P Grist, Australian Bureau of Agricultural and Resource Economics.

The Economics of carbon sequestration and carbon offsets by Dr S MAHENDRARAJAH and Prof E Wilman, University of Calgary.

Biofuel energy economics of freshly expelled coconut oil in the South Pacific by Dr S MAHENDRARAJAH with Dr O Kennedy, University of Wollongong and Dr D Etherington, Kokonut Pacific Pty Ltd.

Decision support tool for modelling Radiata pine plantations for multiple end uses by Dr S MAHENDRARAJAH and P Townsend, Agriculture, Forestry and Fisheries of Australia.

Economics of deforestation in pre and post reform Vietnam by Dr S MAHENDRARAJAH and Thai Truyen, Provincial Forest Protection Department of Quang Nam, Vietnam.

Microeconomic reform in the Australian urban water supply industry by Dr S MAHENDRARAJAH and G Barrett, University of Canberra.

Global survey and analytical framework for forestry out-grower arrangements by D RACE and H DESMOND with J Anderson and C Brown, United Nation's FAO, Italy.

Developing a framework for quantifying the outcomes of England's Forest Strategy by D RACE and Dr S Pryor, Oxford Forestry Institute, University of Oxford, UK.

Development of Evaluation skills at the regional level for commercial farm forestry by D RACE, M BUCHY and P KANOWSKI with M Andrew, Dames & Moore NRM, and K Cody, AFFA Farm Forestry Program.

Large-footed Bat, *Myotis adversus*, as an indicator of water quality in production forests by J ANDERSON and C R TIDEMANN and B Law, State Forests NSW.

Tracking of flying-fox movements by satellite by C R TIDEMANN and J E Nelson, Monash University.

Availability, distribution and quality of floral resources used by honeybees in NSW, by D Somerville, NSW Agriculture, C R TIDEMANN, D Boland, CSIRO FFP; G Kleinschmidt, Honeybee Research Corporation, RIRDC and M Moncur, CSIRO FFP.

Extrapolating leaf palatability for native herbivores to habitat maps through hyperspectral remote sensing by Dr B J TURNER, Dr DURY and

Mr DIBLEY with Prof Skidmore, ITC, The Netherlands.

Geography Department (School of Resource Management and Environmental Science)

The development of a START-Oceania project on Mangrove Management in the South Pacific by M KEEN with Prof B Aalbersberg, Institute of Applied Science, University of the South Pacific.

Development of a research project on Water Management in Asia Pacific cities for the Asia Pacific Network by M KEEN with Dr R Berk, Department of Statistics, UCLA.

Urbanisation in the South Pacific by M KEEN with Prof C Cocklin, Monash University.

Visitor monitoring by R BAKER with NPWS Kosciuszko National Park.

Comparative study of teaching methods by R BAKER with the Center for Instructional Development and Research, University of Washington, Seattle.

Developing and applying methods for assessing the effects of fire and climate change on flora and fauna refugia in the Central Highlands of Victoria by B MACKAY with Dr M Gill, CSIRO Plan Industry; Drs D Lindenmayer and M McCarthy, CRES/ANU, and Dr J Lindesay from Geography, ANU.

Geology Department (School of Resource Management and Environmental Science)

Studies of sulfide mineralogy in volcanic rocks and peridotites from the Solomon Islands by Prof R J ARCULUS with Dr C Ballhaus, Max-Planck-Institut fuer Chemie, Mainz, Germany.

Age determinations for rocks of the Solomon Islands by Prof R J ARCULUS with Prof R A Duncan, Oregon State University, USA.

Studies of volcanic rock geochemistry from Honsu, Japan and Kamchatka by Prof R J ARCULUS with Assoc Prof D A Gust, Queensland University of Technology, and Dr A B Kersting, Lawrence Livermore, USA.

Age determinations of granitoids of New England by Prof R J ARCULUS with Dr M Cosca, Université du Lausanne, Switzerland.

Redox controls on determining ore element ratios in intrusion-related mineralisation by Dr P L BLEVIN with Prof P A Candela, University of Maryland, USA.

Development of mathematical models for the growth & form of Stromatolites by Dr R BURNE.

Textural and chemical evidence for the exsolution and transport of volatiles in felsic magmas by Dr P L BLEVIN with Prof P A Candela, University of Maryland, USA.

Vertebrate Fossils from Gogo by Prof K S W CAMPBELL, Dr R E BARWICK, with Dr P A Pridmore, LaTrobe University and Dr J Long, Western Australian Museum.

A study of *Tarachomyia* — a new early Devonian Dipnoan from Novaya Zemlya Prof K S W CAMPBELL, Dr R E BARWICK with Dr E Mark-Kurik, Institute of Geology, Estonian Academy of Sciences, Tallinn, Estonia.

Caledonian Granites by Prof B W CHAPPELL with Dr W E Stephens, University of St Andrews, Scotland.

Granites in south eastern Australia by Prof B W CHAPPELL with Emeritus Prof A J R White, La Trobe University.

X-ray spectrometry by Prof B W CHAPPELL with Dr K Norrish, CSIRO Soils Adelaide.

Granites of the American Cordillera by Prof B W CHAPPELL with Prof L T Silver, California Institute of Technology, USA.

Island-arc rocks by Prof B W CHAPPELL with Dr R W Johnson, Bureau of Mineral Resources.

Effect of water on subgrain size and recrystallised grain size in olivine rocks by Dr P CHOPRA with Dr D van der Wahl and Dr M Drury, Rijkuniversiteit Utrecht, The Netherlands.

Hot Dry Rock geothermal energy in the Cooper Basin by Dr P CHOPRA and Dr D WYBORN with Prof S Rahman, UNSW, funded by ERDC.

Early Partial Melting in Olivine: ATEM Investigation of Two Dunites Annealed at 300 MPa in Hydrous Conditions by Dr P CHOPRA with Dr P Raterron and Prof J-C Doukhan, Universite de Sciences et Technologies de Lille, France.

Crystallographic preferred orientations and misorientations in some olivine rocks deformed

by diffusion or dislocation creep by Dr P CHOPRA with Dr T Fliervoet and Dr M Drury, Rijkuniversiteit Utrecht, The Netherlands.

Initial Calculations of Performance for an Australian Hot Dry Rock Reservoir by Dr P CHOPRA and Dr D WYBORN with Prof D Swenson, Kansas State University, USA.

Australian Earth Data On-Line: A new on-line source of imagery for disaster management Dr P CHOPRA and R McRae, ACT Emergency Services Bureau.

Validation of Hot Dry Rock resources in the Hunter Valley, NSW — Stage 1 of Australia's first Hot Rock Power Station by Dr P CHOPRA and Dr D WYBORN with C Webber, Pacific Power, funded by the Australian Greenhouse Office.

Gypsum cements in Cenozoic sediments in the Murray basin, South Australia, their age and origin. Honours project at the geology department University of Adelaide by Dr J CLARKE with Goran Kiasatpur, Dr Y Bone, Adelaide University.

Geochemical study of the salinity and pollution of groundwater, surface waters in the Murray Basin, Renmark to Morgan, South Australia. Honours project at the Geology Department, University of Adelaide, by Dr J CLARKE with B Thomas, Dr Y Bone, Adelaide University.

Fossil whale bones in the Miocene Glenforslan Formation, Morgan, South Australia by Dr J CLARKE with B Thomas, Dr Y Bone, Adelaide University.

Stratigraphy, sedimentology, and palaeoecology of Eocene spicular sediments in southern Western Australia by D J CLARKE with Dr P Gammon, Dr Y Bone, Adelaide University, Prof N P James, Queens University, Ontario.

Structural and deformational controls on fluid flow and ore genesis, St Ives goldfield, Western Australia, by Prof S F COX with K Ruming, University of Newcastle.

Faulting Processes in the Northern Sydney Basin by Prof S F COX, with Assoc Prof R Offler and T Wilson, University of Newcastle.

Benthic ostracods from Kerguelen Plateau by Dr P DE DECKKER and Dr M Ayress, UK with Dr R Benson, Smithsonian Institution, Washington DC, USA.

The history of Saline Lakes from New Mexico by Dr P DE DECKKER with Dr R M Forester, US Geological Survey.

Quaternary palaeoceanography of the Tasman Sea by Dr P De DECKKER with Dr S Nees, GEOMAR, Kiel, Germany and Dr K Swanson, University of Canterbury, New Zealand.

Past productivity levels in the eastern Indian Ocean by Dr P DE DECKKER with Prof H Okada, Hokkaido University and Dr O Kawahata, Geological Survey of Japan.

The evolution of the Warm Pool in SE Asia by Dr P DE DECKKER with Dr S Van der Kaars, Monash Univ; Dr S Trollstra, University of Amsterdam and Dr F Grichard, CNRS, Paris.

Bauxite by Prof R A EGGLETON with Alcoa of Australia.

Structures of Mn Fe-layer silicates by Prof R A EGGLETON with Prof S Guggenheim, University of Illinois, Chicago.

Regolith studies by Prof RA EGGLETON with UC, AGSO, CSIRO in CRCLEME.

CO₂ fluid movement through the crust by Dr D J ELLIS with Dr Y Hiroi, Chiba University, Japan.

Experimental study of sulphide equilibria in the mantle by Dr D J ELLIS with Dr C Ballhaus, Germany.

Ion-probe studies of Antarctic and Japanese metamorphic rocks by Dr D J ELLIS with Dr K Shiraishi, National Institute of Polar Research, Japan, Dr Y Hiroi, Chiba University, Japan and Dr M Fanning, RSES.

Geochemistry of Antarctic metasediments and igneous rocks by Dr D J ELLIS with Dr J W Sheraton, AGSO, Canberra.

Experimental and theoretical studies of SYNROC nuclear waste disposal materials by Dr D J ELLIS and Dr C Allen with Dr K Harte and others, Australian Nuclear Science technology Organisation (ANSTO).

Geochemical and isotopic study of Antarctica syenites and charnockites by Dr D J ELLIS and J-X Zhao with Dr K Shiraishi, National Institute of Polar Research, Japan, Dr J W Sheraton, AGSO and Dr M T McCulloch, RSES.

Range of stability (P, T, composition) of zirconolite, a component of Synroc for nuclear waste disposal for ANSTO by Drs D J ELLIS and C M Allen.

Palaeobiogeography of the Carboniferous biota of Australasia by Dr P J JONES with A/Prof I Metcalfe, University of New England, A/Prof B A Engel, University of Newcastle, Prof J Roberts, University of NSW, Prof G Playford, University of Queensland, Dr S Turner, Queensland Museum, and Dr G Webb, University of Queensland.

Magnetostratigraphic and biostratigraphic correlation of the base of the Kiaman Reversed Superchron in Nova Scotia, Canada and the northern Tamworth Belt, NSW, by Dr P J JONES with Prof N D Opdyke, University of Florida, Prof E Irving, Geological Survey of Canada, Vancouver, Dr J Clauoué-Long, AGSO, and Prof J Roberts, University of NSW.

Taxonomy of new Carboniferous (Namurian) glaciomarine ostracods from Patagonia, Argentina, by Dr P J JONES with P Diaz Saravia, Fundacion Miguel Lillo, Tucuman, Argentina.

Revision of the Carboniferous and Permian Leiodea (Branchiopoda; Conchostraca) from Australia, by Dr P J JONES with Prof Chen Pei-ji, Nanjing Institute of Geology and Palaeontology.

Taxonomic comparison of Early Carboniferous (Tournaisian) ostracods from the Bonaparte Basin, northwestern Australia with those from Belgium, Dr P J JONES with Dr M Coen, Université de Louvain-la-Neuve, Belgium.

Taxonomy of Late Permian (Kazanian?) ostracods and palynomorphs from the Petrel Sub-basin, Bonaparte Basin by Dr P J JONES with Dr C B Foster, AGSO.

Taxonomy and biostratigraphy of Silurian rugose corals from the Broken River Province, northeast Queensland by Dr T J MUNSON with Prof J S Jell, University of Queensland.

North Gondwanan mid-Palaeozoic bioevent\ biogeography patterns in relation to crustal dynamics by Dr T J MUNSON with Prof J A Talent, Macquarie University, and others (IGCP project proposal).

A 'Reference Section' at Cismon, Italy for the APTICORE Program by Dr B N OPDYKE and other groups involved include The Univ of Rhode Island;

The Univ of Florida; The Univ of Michigan; Brown Univ; and The Univ of Milano: Funded by the US (NSF) and Italian (CRNS).

Palaeoenvironmental studies of the Monaro by Prof W D RIDE with Dr G Taylor, University of Canberra.

Mass Balance Studies of shallow water carbonates in the Great Barrier Reef by Dr B N OPDYKE with Dr J Jell, University of Queensland.

Carbonate Chemistry of the Surface waters of the Gulf of Papua by Dr B N OPDYKE with Dr G Brunskill, AIMS.

Affects of Atmospheric CO₂ on carbonate depositional environments through the Cenozoic by Dr B N OPDYKE with Dr B Buddemeier.

Evolution and stratigraphic distribution of late Tertiary and Quaternary marsupial faunas in eastern Australia by Prof W D L RIDE, Dr R E BARWICK, Dr PA Pridmore, R Heady, EMU, ANU; with Dr R T Wells, Flinders University, and A Spate, National Parks and Wildlife Service, NSW.

Age and correlation of Middle Palaeozoic microvertebrate assemblages from eastern Australia and Antarctica by Dr G C YOUNG with Dr S Turner, Queensland Museum, Dr J A Long, WA Museum, C Burrow, University of Queensland, and A Basden, Macquarie University.

Palaeobiogeography of Australasian faunas and floras by Dr G C YOUNG with Prof A J Wright, University of Wollongong, and Prof J A Talent, Macquarie University.

Study of Devonian placoderms from the Urals by Dr G C YOUNG with Dr E Mark-Kurik, Institute of Geology, Estonian Academy of Sciences, Tallinn, Estonia.

Biostratigraphy and biogeography of vertebrate faunas of Gondwana and Euramerica across the Frasnian-Famennian boundary (Late Devonian), by Dr G C YOUNG with Prof H-P Schultze, Humboldt Museum, Berlin.

Description of Middle-Late Devonian fish fauna from Sierra de Perija, western Venezuela by Dr G C YOUNG with Dr J Moody, University of Zulia, Maracaibo, Venezuela, and Dr J Casas, Maraven, Caracas, Venezuela.

Description, age and international correlation of Devonian vertebrate assemblages from the Darling

Basin (western NSW) and Georgina Basin (Qld-NT) by Dr G C YOUNG with Prof D Goujet (Museum National d'Histoire Naturelle, Paris).

Study and comparison of Burrinjuck (NSW) Early Devonian placoderm assemblages with new faunas from Morocco and Saudi Arabia, by Dr G C YOUNG with Dr H Lelievre, Museum National d'Histoire Naturelle, Paris.

Physics Department

The generation of a Bose Einstein Condensate by Prof Hans-A BACHOR with the Research Group of W Ertmer and K Saengstock, Universitaet Hannover in the area of diagnostics of Bose Einstein Condensates.

Optical Communication using quantum information by Prof Hans-A BACHOR with the research group of Gerd Leuchs at Universitaet Erlangen.

Development of an Ion Implanter for Radioisotopes by Dr A BYRNE with Assoc Prof D H Chaplin, University College, ADFA, UNSW.

Hyperfine Interaction Studies of Semiconductor Materials by Dr A BYRNE with Dr R Vianden, ISKP, University of Bonn, Germany.

Production of isotopes for cancer therapy by Dr A BYRNE with Prof B Allen and Dr G Goozee, St George Cancer Care Centre, NSW.

Spectroscopy of neutron rich nuclei near and above 208Pb using Deep Inelastic reactions by Dr A BYRNE and Prof G D DRACOULIS, RSPHYSSE with Dr G J Lane, Lawrence Berkeley Laboratory California, USA; Prof R Broda, INP, Krakow, Poland and Dr R V F Janssens, Argonne National Laboratory, Illinois, USA.

Shape Coexistence in light Hg isotopes by Dr A BYRNE and Prof G D DRACOULIS (NP) with Dr G J Lane and P Fallon Lawrence Berkeley Laboratory, California USA and Dr F Kondev, Argonne National Laboratory, Illinois, USA.

Spectroscopy of neutron deficient lead and thallium nuclei by Dr A BYRNE, Dr A M BAXTER (Faculties) and Prof G D DRACOULIS with Prof R Julin, University of Jyväskylä, Finland.

The Aerophysics research group is involved in a series of international collaborations concerned with laser diagnostics and the validation of computer simulations of supersonic flows. These included collaboration between Dr P DANEHY with

A A Dorrington and Dr R Künemeyer, Department of Physics and Electronic Engineering, University of Waikato, Hamilton, New Zealand.

Developing a new method for analysing LIDAR signals for detection of windshear by Dr P DANEHY with A A Dorrington and Dr R Künemeyer, Department of Physics and Electronic Engineering, University of Waikato, Hamilton, New Zealand and J-W Hahn, Optical High-Temperature Measurements Division, Korea Research Institute of Standards and Science (KRISS), Taejon, Korea.

The building and operation of a new CARS system to measure temperature and combustion efficiency by Dr P DANEHY with Dr C Carter, Innovative Scientific Solutions, Incorporated, Dayton, Ohio, USA.

Dr P DANEHY collaborated with Dr R L Farrow, Combustion Research Facility, Sandia National Laboratories, Livermore, California, USA. Dr Farrow provided technical support for the research group experiments, modifying several pieces of software used to analyse experimental data.

Interferometric studies of: shock layer flows in a ballistic range; Mach reflections; and projectiles in a ballistic range by Dr F HOUWING at the Shock Wave Research Centre in the Institute of Fluid Science at Tohoku University in Sendai, Japan.

Dr HOUWING collaborated with Prof Takayama, Shock Wave Research Center, Institute of Fluid Science, Tohoku University.

Studying hypersonic boundary layers by Dr HOUWING with S Mallinson and M Gaston, Faculty of Engineering, University of Technology Sydney.

Design of the hypersonic boundary layer thermometry experiment by Dr HOUWING with Dr P Palma, Aerothermodynamics Section, Institute of Fluid Mechanics, German Aerospace Center, DLR Goettingen, Germany.

With CFD Research Corporation, Cummings Research Park, Huntsville Alabama, USA, performed some experiments and computations for the CFDR in exchange for the cost of the software maintenance contract.

Hubble Space Telescope study of a galaxy cluster at redshift 2.38 by Dr P FRANCIS with Dr B Woodgate, NASA Goddard Space Flight Center (USA). This cluster, amongst the most distant yet discovered, seems to contain far more gas

than cosmological models would predict, as well as a new class of galaxies. It may be an example of the early evolution of galaxy clusters.

Study of red quasars in the Parkes Half-Jansky survey by Dr P FRANCIS with Dr R Webster and Dr M Drinkwater, University of Melbourne.

Dr P FRANCIS gave 4 lectures at CCE evening classes in astronomy, three talks on astronomy at various schools, and conducted one teacher in-service education session. He also wrote a popular level article on black holes for "Australasian Science" magazine, gave 8 radio interviews, 7 public lectures, and his work appeared in many newspapers including The Australian, The Herald Sun, The West Australian, The Sunday Times (UK), The Guardian (UK), The Sun (UK), Gazeta Wyborcza (Poland), Yomiuri Shimbun (Japan), La Hora (Chile), San Jose Mercury News (USA), Natur & Vetenskap (Sweden), and other papers in Brazil, USA and France. It also appeared in many on-line news sites around the world.

Research on the characterisation of materials using electron microscopy and microprobe analysis techniques by Dr H KENNETT with the Department of Physics, ADFA, UNSW.

The gravitational waves group at the ANU is a member of the Australian Consortium for Interferometric Gravitational Astronomy (ACIGA), a nationwide collaboration involving the ANU with the University of Western Australia and The University of Adelaide. Dr D McCLELLAND is its Chair. ACIGA has an ongoing direct collaboration with the LIGO Project, centred at Caltech. They are members of the LIGO Science Collaboration, sited in the USA, which has the charter to develop the techniques and technologies for the next generation of long baseline laser interferometer gravitational detectors. The LSC includes CALTECH and MIT as well as many other US universities. In addition, ACIGA has ongoing collaborations with the French/Italian VIRGO Project and the German/British GEO Project.

Dr C SAVAGE with Dr J Hope and Dr M Collett, Physics Department, University of Auckland, has yielded several publications on atom laser theory in 1999.

Study of Isotropic Singularities in Cosmology by Dr S SCOTT with G Ericksson, IAS.

Study of Abstract Boundary Construction and Singularity Theorems with M Ashley and J Beem, University of Missouri, Columbia.

Gravitational Wave Data Analysis by Dr S SCOTT, Dr McCLELLAND and P CHARLTON with Assoc Prof B Whiting, University of Florida.

Psychology Division

Research on Chinese Language Processing by Dr M-J CHEN with Prof Danling Peng, Beijing Normal University, Beijing, China.

Optic nerve lesions: effect on retinal ganglion cell function and axonal conduction by Prof W LEVICK with Prof W Burke, Department of Physiology, University of Sydney.

Pathophysiology of axonal transmission and retinal ganglion cell function in experimental demyelination of the optic nerve by Prof W LEVICK with Dr W M Carroll, Department of Neurology, Sir Charles Gairdner Hospital, University of Western Australia.

Further characterisation of oligodendrocyte precursor cells: role in remyelination by Prof W LEVICK with Dr T Chan-Ling, Department of Anatomy, University of Sydney.

Roles of taurine in mammalian brain and retina by Prof W LEVICK with Dr D Pow, Vision, Touch & Hearing Research Centre, University of Queensland.

Integration of feedforward, feedback and lateral inputs by primate visual cortical neurones by Dr S VIDYASAGAR with Prof B Dreher, University of Sydney.

Synaptic basis of integrative neuronal interactions in the visual areas of the cat by Dr S VIDYASAGAR with Prof B Dreher, University of Sydney, Dr M Volgushev, Ruhr-University-Bochum, Germany and Dr Li Bing, Academia Sinica, Beijing.

Optical Imaging of neural activity by Dr S VIDYASAGAR with Prof M V Srinivasan, Research School of Biological Sciences, ANU, Prof B Dreher, University of Sydney and Drs U T Eysel, Z Kisvarday and P Buzas, Ruhr-University-Bochum, Germany.

Temperature dependence of membrane properties and synaptic transmission in neocortical slices by Dr S VIDYASAGAR with Prof U T Eysel and Dr M Volgushev, Ruhr-University-Bochum, Germany.

Neuronal plasticity in the adult visual cortex by Dr S VIDYASAGAR with Dr E Wieniawa-Narkiewicz, University of Canberra.

University Schools and Centres

Aboriginal Economic Policy Research, Centre for

Aboriginal perspectives on wildlife utilisation and management by Prof J ALTMAN with Key Centre for Tropical Wildlife Management, Northern Territory University.

Aboriginal art centre: an appraisal of performance by Prof J ALTMAN with F WRIGHT, Aboriginal and Torres Strait Islander Commission and the Australia Council.

Business development plan for Maningrida Arts and Culture by Prof J ALTMAN with F Salmon, Maningrida Arts and Culture and J ANDERSON, Australian Research Associates.

Public expenditure on Indigenous Australians by Dr W SANDERS, with Prof M NEUTZE, Australia Institute and G JONES, Aboriginal and Torres Strait Islander Commission.

Longitudinal study of Indigenous children and their families and households: the effectiveness of DFaCS income support payments by D SMITH, Dr J FINLAYSON, A AULD with Dr A DALY, University of Canberra.

Indigenous health workforce policy development by Dr J SCHWAB with Dr I ANDERSON, Director of the VicHealth Koori Health Research and Community Development, University of Melbourne.

Policy implications of Indigenous household demography from Census 1996 data by D SMITH with Dr A DALY, University of Canberra.

Indigenous peoples and population mobility in Australasia and North America by Dr J TAYLOR with Dr M BELL, University of Adelaide.

Policy implications of Indigenous population mobility by Dr J TAYLOR with Dr M BELL, University of Adelaide.

National review of Outstation Resource Agencies in 1998 by Prof J ALTMAN, W ARTHUR, Dr R DAVIS, Dr D MARTIN and Dr J SCHWAB with Dr K PALMER, Australian Institute of Aboriginal and Torres Strait Islander Studies, and Mr Dan Gillespie.

Policy options for addressing alcohol abuse by Dr D MARTIN and M BRADY, Australian Institute of Aboriginal and Torres Strait Islander Studies.

Native title mediation practitioners handbook by D SMITH with Dr M EDMUNDS, Australian Institute of Aboriginal and Torres Strait Islander Studies.

Baseline study of the southeast Arnhem region by Dr J TAYLOR with Prof J BERN, University of Wollongong.

Asia Pacific School of Economics and Management

Australia-Japan Research Centre

Reform and Recovery in East Asia by Prof P DRYSDALE with Prof R Garnaut, APSEM; Prof P Warr, Economics RSPAS/APSEM; Dr R McLeod, RSPAS/APSEM; Dr P Athukorala, RSPAS/APSEM; Dr L Song, Australia–Japan Research Centre, APSEM; Dr Y Huang, RSPAS/APSEM; Prof R Duncan, National Centre for Development Studies, APSEM; Dr G Fane, RSPAS/APSEM; D Wilson, Australia–Japan Research Centre, APSEM; D Nellor, IMF, Tokyo, Japan; Prof D Vines, Oxford Uni, UK; Prof M Corden, Johns Hopkins, Washington USA; C Becker, Reserve Bank, Sydney, Aust; Dr H Soesastro, Centre for Strategic and Int'l Studies, Jakarta, Indonesia; Dr A Booth, School of African and Oriental Studies, London, UK, Prof M Kawai, World Bank, Washington, USA; Prof I Harper, University of Melbourne; Dr B Nidhirabha, Thammasat Uni, Bangkok, Thailand; Dr S Koeberle, World Bank, Washington, USA.

Beyond Japan Inc: Transparency and Reform in Japanese Governance by Prof P DRYSDALE with Prof R Garnaut, APSEM; Dr J Amyx, Division of Politics and International Relations, RSPAS; L Wolff, Faculty of Law/Economics, RSPAS; Dr G Noble, Division of Politics and International Relations, RSPAS; Prof G Withers, Graduate Program in Public Policy, APSEM; Prof J A A Stockwin, Oxford University, UK; Prof A Rix, University of Queensland; V Taylor, University of Melbourne; N Tanaka, 21st Century Policy Institute, Tokyo, Japan; P Hartcher, Australian Financial Review, Sydney, Aust; Prof M Smith, University of Melbourne; Prof A Horiuchi, University of Tokyo, Japan; Prof M Lewis, University of South Australia, Adelaide.

APEC and its impact on China's economic policy making by Prof P DRYSDALE with Prof C Findlay, Uni of Adelaide, Adelaide; Prof Zhang Yunling, Chinese Academy of Social Sciences, Beijing, China; Dr Zhou Xiaobing, Chinese Academy of Social Sciences, Beijing, China; Dr Sun Xuegong, State Development Planning Commission, Beijing, China; Li Kai, State Information Centre, Beijing, China; Zhang Jianjun, Ministry of Foreign Trade and Economic Cooperation, Beijing, China.

Issues, options and strategies for improving Japanese agricultural trade policies by Prof P DRYSDALE with Prof M Honma, Seikei University, Tokyo, Japan; Prof A Rae, Massey University, Palmerston North, NZ.

Europe, East Asia and APEC by Prof P DRYSDALE with Prof D Vines, Oxford Uni, UK; Dr H Soesastro, Centre for Strategic and International Studies, Jakarta Indonesia.

Japan, Australia and APEC by Prof P DRYSDALE with Prof K Ishigaki, Kobe University, Kobe, Japan; Prof S Katayama, Kobe University, Kobe, Japan; Prof K Nagatani, Kobe University, Kobe, Japan; Prof R Miyao, Kobe University, Kobe, Japan; Prof H Lee, Kobe University, Kobe, Japan; Prof Si Nishijima, University, Kobe, Japan; Prof C Findlay, University of Adelaide; Dr H Soesastro, Centre for Strategic and Int'l Studies, Jarkara, Indonesia.

Development Studies, National Centre for

Health insurance reform in the United States by Dr D COBB-CLARK with A Wellington, Wooster College, Ohio, USA.

Undocumented migrants in the United States by Dr D COBB-CLARK with S Kossoudji, University of Michigan.

Ecosystem and their services, Chapter 5: Third Assessment Report: Impacts, Adaptation and Vulnerability of the International Panel on Climate Change by Dr H GITAY, Coordinator Lead Author with Working Group II, IPCC.

Australasia, Chapter 12: Third Assessment Report: Impacts, Adaptation and Vulnerability of the International Panel on Climate Change by Dr H GITAY, Lead Author with Working Group II, IPCC.

Foundations of Social Policy by Dr M HESS with Dr D Adams, Department of Premier and Cabinet, Victoria.

Public Sector Reform in Thailand by Dr M HESS with D Boripanthakul, Office of the Civil Service Commission, Thailand.

WTO accession and agricultural trade policy in China by Dr YONGZHENG YANG with Prof Tian Weiming, China Agricultural University, Beijing.

Indigenous community wildlife management in Australia by Dr E YOUNG with Dr J Davies, University of Adelaide.

Public Policy, Graduate Program in

Defence Economics research by Prof G WITHERS with Prof C D Throsby, School of Economics, Macquarie University, Sydney.

Industry Policy research undertaken by Prof G WITHERS with Assoc Prof J Wanna, Griffith University, Brisbane.

Cross-Cultural Research, Centre for

The Centre for Cross-Cultural Research (CCR) continued to collaborate with national and state cultural institutions, including the National Gallery of Australia, the National Portrait Gallery, the National Library of Australia, the National Museum of Australia, the Queensland Art Gallery, the Australian Museum, the State Library of NSW and Australian Institute of Aboriginal and Torres Strait Islander Studies.

Major publishing project *The Oxford Companion to Aboriginal Art and Culture* by researchers at CCR, awarded \$313,000 by US-based Getty Grants Program.

Educational Development and Academic Methods, Centre for (CEDAM)

Academic Women's Writing Retreat coordinated by G S ÅKERLIND with University of Canberra and Australian Defence Force.

TLC Project: Building a teaching and learning community in the Information Systems discipline coordinated by P COLLINGS with University of Canberra, Charles Sturt University, University of NSW, and University of Technology, Sydney.

Distributed Flexible Learning — an experiential pilot, project member Dr A C F TREVITT with the National Council on Open and Distance Education (NCODE), University of New England, Queensland University of Technology, University of Wollongong, Southern Cross University, and University of Newcastle.

Dr A C F TREVITT, member, project reference group for Staff Development in Evaluation of Technology-based Teaching Development Projects: An Action Research Approach, a CUTSD funded national initiative.

Researching New Learning Environments, national workshop, contributor Dr A C F TREVITT involving Australian and New Zealand universities and other institutions.

Epidemiology and Population Health, National Centre for

Sexual networking and the risk of AIDS in Bangladesh by B CALDWELL, J CALDWELL and P CALDWELL with I Pieris, Barkat-e-Khuda, International Centre for Diarrhoeal Disease Research, Bangladesh.

The sub-Saharan African AIDS epidemic by J CALDWELL and P CALDWELL with I O Orubuloye, Ondo State University, Nigeria; J Ntozi, Makerere University, Uganda; K Awusabo-Asare, University of Cape Coast; J Bock, University of New Mexico; J Marck; C Varga; A-M Nobelius; J Malungo, Demography, ANU.

Surveillance of acute flaccid paralysis by R D'SOUZA with M Kennett, Victorian Infectious Diseases Reference Laboratory; J Antony, Royal Alexandra Hospital for Children (New Children's Hospital), Westmead; B Harvey, Commonwealth Department of Health and Aged Care; H Longbottom, Department of Social and Preventive Medicine, University of Queensland; E Elliott, University of Sydney and New Children's Hospital, Westmead.

Vitamin A for measles in children (Cochrane Review) by R M D'SOUZA and R D'SOUZA and W Fawzi, Department of Nutrition, Harvard School of Public Health.

Returns to investment in public health — HIV/AIDS by J BUTLER, SUET-LAM MUI and A

HOWARTH with P Abelson, Department of Economics, Macquarie University.

Comparison of projected costs and benefits from two vaccines likely to be licensed in Australia before 2001 by J BUTLER, B SANDER and A HOWARTH with A Tucker, P McIntyre, M Burgess, National Centre for Immunisation Research and Surveillance, University of Sydney.

Direct and indirect costs of hepatitis A by J BUTLER with V McLaughlin, Midwest Public Health Unit, Health Department of Western Australia; A Plant, Department of Public Health, University of Western Australia.

Cost-effectiveness of parent incentives versus nurse home visits in stimulating uptake of childhood vaccination by J BUTLER, A HOWARTH with L Bond, Centre for Adolescent Health, Department of Paediatrics, Royal Children's Hospital, Melbourne; T Nolan, Clinical Epidemiology and Biostatistics Unit, Department of Paediatrics, Royal Children's Hospital, Melbourne.

Portland smelter sulphur dioxide study by C GUEST with D Weller, J Heyworth, J Edwards, Flinders University; K Steer, Environment Protection Agency, South Australia.

Extremes of temperature and mortality in Australia, 1979–90 by C GUEST; K Willson, University of Adelaide; A Woodward, Wellington School of Medicine, University of Otago; K Hennessy, Division of Atmospheric Research, CSIRO; L Kalkstein, Centre for Climate Research, University of Delaware; C Skinner, National Climate Centre; A McMichael, London School of Hygiene and Tropical Medicine.

Improving water in Indigenous communities through technology transfer by G BAMMER and R DOUGLAS; C Kenna, R Lloyd, B Walker, Centre for Appropriate Technology Inc, Alice Springs.

Exploring the potential for improving potable water in remote Indigenous communities through rainwater harvesting by ; G BAMMER with C Conway, student; G Henderson, Australian Institute for Aboriginal and Torres Strait Islander Studies; H Nicholson, White Rocks Computing, Jimboomba.

Educational materials in public health practice by C GUEST with D Pencheon, Institute of Public Health, University of Cambridge; M Gray, Institute

for the Health Sciences, University of Oxford; D Melzer, Institute of Public Health, University of Cambridge.

Compliance with guidelines in the drug management of ischemic heart disease by L LIM with R Heller, Centre for Clinical Epidemiology and Biostatistics, Faculty of Medicine and Health Sciences, University of Newcastle.

National Evaluation of Pharmacotherapies for Opioid Dependence by G BAMMER with R P Mattick, E Diguisto, J Kimber, National Drug and Alcohol Research Centre, University of New South Wales.

New pharmacotherapies clinical trials by N LINTZERIS and G BAMMER with A Ritter, Turning Point Drug and Alcohol Research Centre Inc, Melbourne and the Turning Point New Pharmacotherapies Research Team.

Withdrawal from heroin using buprenorphine followed by naltrexone maintenance — an inpatient study to determine effective dosing regimens by N LINTZERIS, G BAMMER and N MAIN with G Whelan, A Ritter and L Rushworth, Turning Point Drug and Alcohol Research Centre Inc, Melbourne.

A pilot study of accelerated detoxification from methadone maintenance by G BAMMER with N Glasgow, Canberra Clinical School of the University of Sydney; J Taylor, ACT Community Care Alcohol and Drug Program; J Bell, The Langton Centre; R P Mattick, The National Drug and Alcohol Research Centre; M Young, The Langton Centre.

Estimating the demand for new pharmacotherapies within the heroin dependent population in Australia by G BAMMER with G Rumbold, Turning Point Alcohol and Drug Centre Inc, Melbourne; P Dietze, Jozica Kutin, Turning Point Alcohol and Drug Centre Inc, Melbourne; R Ali, Drug and Alcohol Services Council, Adelaide; C Aitken, N Crofts, Centre for Harm Reduction, Macfarlane Burnet Centre for Medical Research, Melbourne; W Hall, National Drug and Alcohol Research Centre; D Jolley, School of Health Sciences, Deakin University.

The impact of funding changes on Aboriginal health initiatives in Divisions of General Practice by B SIBTHORPE with S Meihuberts, R Griew, NSW

State Office of the Commonwealth Department of Health and Aged Care.

General practice in its community context by A WHITTAKER with A Reid, Department of General Practice, University of Newcastle; L Connot, Department of Anthropology and Sociology, University of Newcastle; K Robinson, Department of Anthropology, RSPAS, ANU; A Sprogis, Hunter Division of General Practice.

An economic and epidemiological simulation model of cancer and cardiovascular disease by J BUTLER, Lei LI and Suet-Lam MUI with E Klierer, Department of Preventive Oncology and Epidemiology, Cancer Care, Manitoba, Canada.

Cost-effectiveness of the DVA Preventive Care Trial for elderly veterans and war widows by L LIM and J BUTLER with J Byles, Dick Heller, N Higginbotham, Centre for Clinical Epidemiology and Biostatistics, Faculty of Medicine and Health Sciences, University of Newcastle; K Nair, Director of Geriatric Medicine, Rankin Park Hospital, Newcastle; C Jackson, Centre for General Practice, University of Queensland; M McEniery, Faculty of Nursing, University of Newcastle.

Lessons from the Alternative Birthing Services Program (ABSP) by D BROOM with S Andrews, ACT Chief Minister's Department.

The fertility decline in Bangladesh by B CALDWELL, J CALDWELL and P CALDWELL with I Pieris, Barkat-e-khuda, International Centre for Diarrhoeal Disease Research, Bangladesh.

Accessibility of health and reproductive health assistance in Dhaka slums by B CALDWELL, J CALDWELL and P CALDWELL with I Pieris, Barkat-e-Khuda, International Centre for Diarrhoeal Disease Research.

National family planning programs in the 21st Century by J CALDWELL, P CALDWELL and B CALDWELL with Barkat-e-Khuda, International Centre for Diarrhoeal Disease Research, Bangladesh; I Pieris, International Centre for Diarrhoeal Disease Research, Bangladesh.

Effecting declines in female circumcision by J CALDWELL and P CALDWELL with I O Orubuloye, Ondo State University, Nigeria.

Quality of life cohort study by L LIM and T DIXON with R Heller, University of Newcastle.

Work, health and disabilities by L LIM with R Rutnam, Commonwealth Department of Family Affairs & Community Service.

Identification and Examination of the Risk Factors for Non-fatal Heroin Overdose: A Case-Crossover Study by G BAMMER with P Dietze, G Rumbold, C Fry, Turning Point Alcohol and Drug Centre Inc, Melbourne; D Jolley, School of Health Sciences, Deakin University.

Identifying the social, personal and health needs of women living with hepatitis C by G BAMMER, C BANWELL, N MAIN, M BEERS and K MORAN with S Gifford, Public Health Program, School of Health Sciences, Deakin University; M Karvelas, Public Health Program, School of Health Sciences, Deakin University; M O'Brien, Australian Research Centre in Sex, Health and Society, La Trobe University; J Byrne, National Hepatitis C Program, Australian Intravenous League; M Kainer, Western Hospital, North Western Health Care Network; W Holmes, International Health Unit, Macfarlane Burnet Centre.

Methadone injection in NSW by G ISAAC-TOUA and G BAMMER with S Kippax, E Southgate, National Centre in HIV Social Research, University of New South Wales; Margaret Macdonald, National Centre in HIV Epidemiology and Clinical Research, University of New South Wales.

ACT component of the Illicit Drug Reporting System — 1999 by G BAMMER with J Fleming, consultant; B Cook, P Williams, T Makkai, Australian Institute of Criminology and the National Illicit Drug Reporting System, Investigators R McKetin, S Darke and W Hall.

Psychiatric Epidemiology Research Centre

Report on intervention study in challenging behaviours associated with dementia by Dr M BIRD and A KORTEN with Dr R Llewellyn-Jones, H Smithers and J Cohen of Hornsby/Ku-ring-gai Hospital, Sydney.

Analysis of data from National Survey of Mental Health and Wellbeing by Prof A S HENDERSON & Andrews, Clinical Research Unit for Anxiety Disorders, St Vincent's Hospital, University of NSW, Prof W Hall, Dr M Teesson, National Drug and Alcohol Research Centre, University of NSW.

Molecular genetics and psychiatric epidemiology by Prof A S HENDERSON in collaboration with Prof D Blackwood, Department of Psychiatry, University of Edinburgh, Scotland.

Temperament and behavioural adjustment in childhood: a longitudinal study of genetic influences by Prof A F JORM with Dr S Easteal, JCSMR, Prof M Prior, Department of Psychology, University of Melbourne.

PATH Through Life Project by Prof A F JORM, Dr H CHRISTENSEN, Dr B RODGERS, P A JACOMB, A KORTEN and other staff of CMHR with Dr K Baghurst, CSIRO Division of Human Nutrition.

Well-Being in Nonagenarians by Prof A F JORM with P Hillerås, Stockholm Gerontology Research Center.

Mental health literacy in Singapore by Prof A F JORM with Prof G Parker and other staff of the Institute of Mental Health, Singapore.

Online Resources and Cyberhub for Information on Depression (ORCHID) by Dr K GRIFFITHS and Dr H CHRISTENSEN with Dr D Hawking, Centre for Mathematical and Information Sciences, CSIRO and ACSys, ANU.

Latent growth models of longitudinal data by Dr H CHRISTENSEN, A KORTEN, Prof A S HENDERSON and Dr B RODGERS with Assoc Prof A Mackinnon, Mental Health Research Institute of Victoria; Dr S Hofer, Department of Human Development and Family Studies and Centre for Developmental and Health Genetics, The Pennsylvania State University, USA.

Neuropsychology of dementia. Profiles in normal aging by Dr H CHRISTENSEN and Prof M Kopelman, Academic Department of Psychiatry, St. Thomas's Hospital, London, UK.

National Survey of Mental Health and Well-Being, survey of low-prevalence (psychotic) disorders by A KORTEN and J MEDWAY with Dr M Evans, ACT Health; A Jablensky, V Morgan, University of Western Australia; Prof J McGrath, Queensland Centre for Schizophrenia Research, Prof H Herrman, University of Melbourne.

Analysis of the British 1958 birth cohort study by Dr B RODGERS with Dr C Power and S Hope, University of London Institute of Child Health.

Validation of the Malaise Inventory by Dr B RODGERS with Prof A Pickles, University of Manchester, Dr S Collishaw, Dr B Maughan, University of London Institute of Psychiatry.

Lifetime predictors of midlife psychological symptoms in women by Dr B RODGERS with Dr D Kuh, Dr R Hardy and Dr S Marshall, University College London.

Depression and anxiety in abstainers, moderate drinkers and hazardous/harmful drinkers by Dr B RODGERS, A KORTEN, T CALDWELL and Prof A S HENDERSON with Prof W Hall, L Degenhardt, National Drug and Alcohol Research Centre, University of New South Wales.

Mathematical Sciences, School of

Mathematics Department

The family of dilute A_L lattice models by M T BATCHELOR with K A Seaton, La Trobe University.

The application of mathematical models to the growth of stromatolites by M T BATCHELOR with R V BURNE, ANU, B I Henry, University of New South Wales and S D Watt, University of New South Wales.

On boundary conditions in Bethe Ansatz solvable models by M T BATCHELOR with J B McGuire, Florida Atlantic University.

Magnetised accretion discs by G V BICKNELL with Z Kuncic, University of Victoria, Canada.

High energy emission from blazars by G V BICKNELL with S Wagner, Landessternwarte, Heidelberg.

Interpretation of data on the TeV γ -ray blazar Markarian 501 by G V BICKNELL with S Wagner, Landessternwarte, Heidelberg.

Coverings of groups with subgroups by R A BRYCE with L Serena, University of Florence.

Dilipotent groups by P J COSSEY with S Stonehewer, University of Warwick, UK and O Kegel, University of Freiburg, Germany.

Arithmetic of finite groups by P J COSSEY with T Hawkes, University of Warwick, UK.

Properties of finite soluble groups by P J COSSEY with A Ballester-Bolinches, University of Valencia, Spain and K Doerk, University of Mainz, Germany.

The structure of the Corner Transfer matrices for the "Perk-Schultz" solvable lattice models by B DAVIES with R B Zhang, University of Queensland.

Radio and optical observations of RE-J0317-853: a suspected 2.2 MeV Gamma-Ray Source by L FERRARIO with P Barrett, NASA/GSFC, M McConnell, CSIRO, S Drake, NASA/GSFC, J Lim, Caltech, USA and S VENNES, ANU.

Emission line formation in accretion funnels in AM Herculis systems by L FERRARIO with R Wehrse, Institute of Theoretical Physics, University of Heidelberg.

Spiral waves and periodic accretion in intermediate polars by L FERRARIO with J R Murray, University of Leicester, UK, P J Armitage, Canadian Institute for Theoretical Physics and D T WICKRAMASINGHE, ANU.

Piloting a cross-institutional collaborative approach to honours education in theoretical astrophysics by L FERRARIO with R J LOY, ANU and J Lattanzio, Monash University.

3-D Radiation transfer in X-ray heated accretion flows by L FERRARIO with R Wehrse, Institute for Theoretical Astrophysics, University of Heidelberg.

Magnetic braking and evolution of magnetic binaries by L FERRARIO and D T WICKRAMASINGHE, ANU with R Webbink, University of Illinois.

Use of genetic algorithms and the maximum entropy method in the modelling of the spectra of isolated magnetic white dwarfs and magnetic CVs by L FERRARIO and D T WICKRAMASINGHE with P Hakala, University of Turku, Finland.

A study of WD 1953-011, an isolated magnetic white dwarf with an extreme field structure by L FERRARIO with D T WICKRAMASINGHE, ANU, P Maxted, University of Southampton, UK and T Marsh, University of Southampton, UK.

Finite element approximations to solutions of geometric variational problems by J E HUTCHINSON with G Dziuk, University of Freiburg, Germany.

Random fractals by J E HUTCHINSON with L Rüschemdorf, University of Freiburg, Germany.

Phase transitions by J E HUTCHINSON with Y Tonegawa, Keio University, Japan.

Mumford-Shah functional by J E HUTCHINSON with N Fusco, University of Florence, Italy.

The structure of radical amenable Banach algebras by R J LOY with G A Willis, University of Newcastle, V Runde, University of Saarbrücken, Germany.

The analysis underlying some recent results in rheological sampling localization by R J LOY with R S Anderssen, CSIRO.

Finite p -groups with many subgroups 2-subnormal by E A ORMEROD with G Parmeggiani, Università degli Studi di Padova, Italy.

Electrical conductivity in the Earth by H F PETERSONS with S-A Gustafson, Stavanger College, Stavanger, Norway.

Discs gone with the wind? by D T WICKRAMASINGHE with G Shaviv, Israel Institute of Technology and R Wehrse, Institute of Theoretical Physics, University of Heidelberg.

The effects of tidally induced disc structure on white dwarf accretion in intermediate polars by D T WICKRAMASINGHE with J R Murray, University of Leicester, UK; P Armitage, Canadian Institute for Theoretical Physics and L FERRARIO, ANU.

Mathematics and its Applications, Centre for

Collaboration on teaching mathematical modelling using computing and case studies, towards a second year text book by S B BARNES with G Fulford, Mathematics, University of New South Wales, Duntroon.

Modelling mobile network traffic, including spatial factors by D J DALEY with Dr S Hanly, Melbourne University.

Long range dependence properties of point processes by D J DALEY with Dr R Vesilo, Macquarie University and Prof T Rolski, University of Wrocław, Poland.

Modelling aggregate in concrete by D J DALEY with Dr A Karr and others, National Institute of Statistical Science, Research Triangle Park, USA.

Aspects of sub-exponentiality and Long range dependence in queueing models by D J DALEY with Prof C Kluppelberg, Technical University Munich, Germany and Prof V Schmidt, University of Ulm, Germany.

Modelling and estimation for transactional data by D J DALEY with Dr L D Servi, GTE Laboratories Inc, Waltham, USA.

Aspects of call-centres: modelling and optimal management by D J DALEY with Dr L D Servi, GTE Laboratories Inc, Waltham, USA.

Hand-off traffic in mobile communication systems by D J DALEY with Dr L D Servi, GTE Laboratories Inc, Waltham, USA.

Variable susceptibility and infectivity in epidemic modelling by D J DALEY and J GANI with Prof S Yakowitz (deceased), University of Arizona, USA.

Service system outputs: modelling and inference by D J DALEY with Prof P Glynn, Stanford University, USA.

On patterns in sequences in random events by J M GANI with Prof A Irle, University of Kiel, Germany.

Numerical simulation of immersion cooling of tempering steel by L GROSZ with Dr M Ehlers, University of Karlsruhe, Germany.

Parallel sub-stepping schemes for elasto-plastic stress analysis by L GROSZ and S G Roberts with S Kalyanasundaram, Z Ding and M Cardew-Hall (FEIT).

Legendrian distributions on manifolds with corners by A W HASSELL with Dr A Vasy, University of California at Berkeley, USA.

Maximum likelihood estimation of non-homogeneous Markov chains by C R HEATHCOTE with Dr T J O'Neill and Mr B A Davis.

History of statistics by C C HEYDE with Prof E Seneta, University of Sydney.

Long-range dependence by C C HEYDE with Dr V V Anh, Queensland University of Technology.

Heavy tails by C C HEYDE with Dr V V Anh, Queensland University of Technology.

Intermittency by C C HEYDE with Dr V V Anh, Queensland University of Technology.

Discrimination between non-nested families of models by C C HEYDE with Prof M Markatou, Columbia University, USA.

Statistical issues for time series problems of stochastic finance and queueing by C C HEYDE

with Prof S Yakowitz (deceased), University of Arizona, USA.

Quasi-likelihood by C C HEYDE with R Morton, CSIRO, Canberra.

Nonparametric estimation of hazard rate under the constraint of monotonicity by L-S HUANG, P G HALL and J GIFFORD with Dr I Gijbels, Université Catholique de Louvain Institut de Statistique, Belgium.

Finite element approximations to solutions of geometric variational problems by J E HUTCHINSON with Prof G Dziuk, University of Freiburg, Germany.

Random fractals by J E HUTCHINSON with Prof L Rüschemdorf, University of Freiburg, Germany.

Phase transitions by J E HUTCHINSON with Prof Y Tonegawa, Keio University, Japan.

Mumford-Shah functional by J E HUTCHINSON with Prof N Fusco, University of Florence, Italy.

Diffusion on fractals and random fractals by O D JONES with Dr B Hambly, BRIMS, Hewlett-Packard Laboratories, Bristol, UK.

Diamonds in thin Lie algebras by G JURMAN with M Avitabile, University of Trento, Italy.

Module structure of free Lie algebras by L G KOVACS with Prof R M Bryant and Dr R Stöhr, UMIST, UK.

Proficient presentations and direct products of finite groups by L G KOVACS with Prof K W Gruenberg, Queen Mary and Westfield College, London, UK.

Generalized Fitting subgroups by L G KOVACS with Prof G R Robinson, University of Birmingham, UK.

Generalized Chiral Potts model by V V MANGAZEEV with Dr H Boos, Institute of Physics, Bonn University, Germany.

Three-dimensional integrability by V V MANGAZEEV with Drs S M Sergeev, Institute for High Energy Physics, Russia and R M Kashaev, St Petersburg Mathematical Institute, Russia.

Singular integral operators with non-smooth kernels by A G R McINTOSH with Dr X T Duong, Macquarie University.

Hardy spaces associated with operators having a holomorphic functional calculus by A G R McINTOSH with Dr X T Duong, Macquarie University and Prof P Auscher, Amiens, France.

Monogenic functional calculus and Weyl functional calculus by A G R McINTOSH with Dr B Jefferies, University of New South Wales.

Maxwell's equations on irregular domains by A G R McINTOSH with Dr J Hogan, Macquarie University and Dr R Grogard, Division of Radiophysics, CSIRO.

Lie rings with maximal class by M F NEWMAN with Prof A Caranti, University of Trento, Italy.

Testing finite presentations for finiteness by M F NEWMAN with Prof G Havas, University of Queensland and Dr D F Holt University of Warwick, UK.

Groups with exponent six by M F NEWMAN with Prof G Havas, University of Queensland, Dr A C Niemeyer, University of Western Australia and Prof C C Sims, Rutgers University, USA.

Restricted Burnside groups with exponent seven by M F NEWMAN with Prof M R Vaughan-Lee, University of Oxford, UK and Dr E A O'Brien, University of Auckland, NZ.

Soluble length of groups with prime-power order by M F NEWMAN and C SCHNEIDER, with Ms S Evans-Riley, University of Sydney.

Entropy of algebras by M F NEWMAN and C SCHNEIDER with Prof A Shalev, Hebrew University at Jerusalem, Israel.

Coclass periodicity by M F NEWMAN with Prof C R Leedham-Green, Queen Mary and Westfield College, London, UK.

Groups defined by powers by M F NEWMAN with Dr D F Holt, University of Warwick, UK.

Variable selection and control in least squares problems by M R OSBORNE with Dr B Presnell, Florida State University, USA and Dr B A Turlach, University of Western Australia, WA. Further developments considered by Prof G A Watson, Dundee University, UK.

Problems in the estimation of differential equations by M R OSBORNE and Z Li with Dr T Prvan, University of Canberra.

Operator algebras and mathematical physics by D W ROBINSON with Prof O Bratteli, Oslo University, Norway.

Elliptic and subelliptic operators on Lie groups by D W ROBINSON with Dr A F M ter Elst, Technical University, Eindhoven, The Netherlands.

Operator algebras and wavelets by D W ROBINSON with Prof P E T Jørgensen, University of Iowa, USA.

On second-order periodic elliptic operators in divergence form by A SIKORA and D W ROBINSON with Dr A F M ter Elst, Technical University, Eindhoven, The Netherlands.

Spectral multiplier for a sublaplacian on $SU(2)$ by A SIKORA with Prof M Cowling, University of New South Wales.

Imaginary powers of second-order elliptic operators in divergence form by A SIKORA with Dr J Wright, University of New South Wales.

Heat kernel bounds and spectral multipliers by A SIKORA with Dr X T Duong, Macquarie University and Dr E M Ouhabaz, Université de Marne-La-Vallée, France.

Domain decomposition methods for boundary integral equations in 2-dimension by T TRAN with Prof E P Stephan, University of Hannover, Germany.

Improvement of qualocation methods by T TRAN with Prof I H Sloan, University of New South Wales.

Inverse scattering for locally perturbed half plane by T TRAN with Prof R Kress, University of Göttingen, Germany.

Fast solution methods for three-dimensional many-particle problems in linear elasticity by T TRAN with Prof G Rodin, The University of Texas at Austin, USA.

Discrete schemes for elliptic and parabolic equations by N S TRUDINGER with Prof H-J Kuo, National Chung-Hsing University, Taiwan.

Degenerate Hessian equations by N S TRUDINGER and X-J Wang with Prof N N Ivochkina, St Petersburg Institute of Civil Engineering, Russia.

Robustness in sample surveys by A H WELSH with Dr A Kuk, National University of Singapore.

R A Fisher's use of scores by A H WELSH with Prof J Robinson, University of Sydney.

Analysis of HIV/AIDS surveillance data by S R WILSON with Drs P J Solomon and G Bishop, University of Adelaide.

Techniques for analysis of human genetic data by S R WILSON with Prof T P Speed, Walter & Eliza Hall Institute, Melbourne, Victoria and University of California, Berkeley, USA.

Graduate School, The

Tobacco Control and the Liberal State: The Legal, Ethical and Policy Debates by J BALLARD with Prof E A Feldman, New York University, and Prof R Bayer, Columbia University and an international team, funded by the Robert Wood Johnson Foundation.

Evaluating and using rainfall forecasts for decision-making on farms by R B CUNNINGHAM with CSIRO Plant Industry, John Webb Ware, Mackinnon Project, University of Melbourne.

Monitoring Rufous Scub-bird populations by R B CUNNINGHAM with NSW National Parks and Wildlife Service.

Pacific and Asian Studies, Research School of

Director's Section

North Australia Research Unit

Federalism and national unity by Dr C FLETCHER with Prof G BROSIO, University of Torino, Turin, Italy.

Development of federalism-type options as a form of a social safety net in Indonesia, Philippines, Malaysia and Thailand by Dr C FLETCHER with the Organisation for Economic Cooperation and Development (OECD), Paris, France.

Economic study for the east Kimberley by Dr C FLETCHER with Sue Roman and Associates, South Australian Centre for Economic Studies, University of Adelaide and Flinders University, and Dodson Lane Pty Ltd. Funded by Aboriginal and Torres Strait Islander Commission (ATSIC), Kununurra.

Study tour by a group of Ethiopian government officials on Australia's system of democracy and fiscal equity by Dr C FLETCHER with the Commonwealth Grants Commission.

A business directory for the Australia-Indonesian development area by Dr C FLETCHER with Northern Territory Chamber of Commerce and Industry and the International Business Council.

Economic impact of electricity costs on food by Dr C FLETCHER with South Australian Centre for Economic Studies, University of Adelaide and Flinders University.

Regional development in South Australia and the Northern Territory by Dr C FLETCHER with G Coombs and Prof C Walsh, South Australian Centre for Economic Studies, University of Adelaide and Flinders University.

Indonesian election debriefing. Dr C FLETCHER with Centre for Southeast Asian Studies, Northern Territory University, Darwin.

Translation of Indonesia's law on statistics by Dr C FLETCHER with Australian Bureau of Statistics, Darwin.

Sustainable development of tropical savannas by Dr C FLETCHER and Dr Chinna Arjunan Kannapiran with Dr G Kirby, Northern Territory Department of Primary Industries and Fisheries, Darwin.

National field test of the relevance of the revised International Classification of Impairments,

Disabilities and Handicaps (ICIDH) to indigenous people by K SENIOR with The Australian Institute of Health and Welfare.

South-East Arnhem Land collaborative research project by K SENIOR with Prof J Bern, Faculty of Arts, University of Wollongong.

Coordination and assistance in the preparation of the ACIAR Fire Management Workshop in eastern Indonesia and northern Australia by Dr A McWILLIAM undertaken in conjunction with the Cooperative Research Centre in Tropical Savannas, and the Bush Fire Council of the Northern Territory.

Strategic and Defence Studies Centre

Regional security by Prof D BALL with Department of Foreign Affairs and Trade.

Regional security by Prof D BALL with Department of Defence.

Dr C BELL has been a collaborator on a project coordinated by the UN University of Tokyo, bringing scholars from about twenty universities, worldwide, together in a study on Kosovo and the international community: the interaction of force and diplomacy in the management of the crisis by Dr C Bell and international associates and coordinated by the United Nations University of Tokyo.

Global strategic prospects by Dr C BELL and the University of Melbourne in association with the National Defence College.

Regional security policy by Prof P DIBB with the Department of Foreign Affairs and Trade.

Australian defence policy and regional security by Prof P DIBB with the Department of Defence.

The US alliance system in the Asia-Pacific region by Prof DIBB, Prof S Harris (RSPAS), General (rtd) J Baker, H White (Department of Defence) and A Oxley (International Trade Strategies Pty Ltd) with the John F Kennedy School of Government at Harvard University, USA.

Regional defence and security policy by Dr S WOODMAN with Department of Defence.

Pacific Manuscripts Bureau

On the preservation and microfilming of its archives by PMB with the PNG Coffee Industry Corporation in Goroka.

Arrangement and preservation of the Noser Archives by PMB with the Divine Word University, Madang.

The supply of microfilms of research archives of the PNG National Fisheries Authority by PMB with the Michael Somare Library, University of Papua New Guinea.

The location and microfilming of the Court's judgements by PMB with the School of Law, University of the South Pacific, Emalus Campus, Port Vila, and the Supreme Court of the Republic of Vanuatu.

Microfilming the archives of the South Seas Evangelical Mission by PMB with the Centre for the Study of Australian Christianity, Macquarie University, Sydney.

Locating and microfilming of Japanese Government reports to the League of Nations on its South Sea Mandates by PMB with the Department of History, University of Waikato.

Microfilming the Fiji Museum's collection of archives and manuscripts by PMB with the Fiji Museum.

Microfilming the archives of the Overseas Seamen's Union by PMB with the Kiribati Islands Overseas Seamen's Union.

Microfilming the archives of Daughters of Our Lady of the Sacred Heart by PMB with Daughters of Our Lady of the Sacred Heart, Kiribati.

Technicalities of archival microfilming by PMB with the National Archives of Kiribati.

Joint copying projects by PMB with the National Library of Australia, the Mitchell Library, the Alexander Turnbull Library, the University of Auckland Library, the University of Hawaii Library, the University of California Library, San Diego, and the Yale University Library.

Economics, Division of

Singapore economy: key issues for the 21st century by Dr K P KALIRAJAN with Prof B Rao and Prof G Shantakumar, Department of Economics, National University of Singapore, Singapore.

Sources of growth in East Asia by Dr K P KALIRAJAN with Prof N Singh, Department of Economics, University of California, Santa Cruz, USA.

Accelerating growth through globalising Indian agriculture by Dr K P KALIRAJAN with Prof U Sankar, Madras School of Economics, Chennai, India.

Liberalisation of exchange controls in Bangladesh by Dr G FANE with Dr H Ahammad, Economic Research Centre, University of Western Australia.

Building Institutional Capacity in Asia by Dr G FANE with the Research Institute for Asia and the Pacific, Sydney University on behalf of the Ministry of Finance, Japan.

General equilibrium analysis of the Indonesian economy by Prof P WARR with Centre for International Economic Studies, University of Adelaide.

The Korean economy by Dr H SMITH with Korea Development Institute.

Accelerating growth through globalisation of Indian agriculture by Dr R SHAND with ACIAR, Madras School of Economics and National Council of Applied Economic Research, New Delhi, India.

Irrigation modernisation and agricultural diversification in Sri Lanka by Dr R SHAND with the Institute of Policy Studies, Colombo, Sri Lanka.

Indian Ocean trade and investment project by Dr R SHAND with Centre for Policy Research, New Delhi, India.

Interstate disparities and economic reform in India by Dr R SHAND with National Council of Applied Economic Research, New Delhi, India.

Economic profiles in South Asia research globalisation of Indian agriculture by Dr R SHAND with Prof U Sankar, Madras School of Economics, India.

Development, governance and the environment in South Asia by Dr R SHAND with Dr Mohammad Alauddin, University of Queensland, Centre for Policy Dialogue, Dhaka, Bangladesh.

Indian Ocean trade and development by Dr R SHAND with Prof Mahender Reddy, University of Mauritius.

Management/organisation of publication *Bulletin of Indonesian Economic Studies*, Jakarta Edition, Dr C MANNING and Dr R McLeod with Center for Strategic and International Studies, Jakarta.

Structural change, labour markets and international labour migration in the Greater Mekong Region by Dr C MANNING and P-C Athukorala with Dr P Wikramasekera, International Labour Organisation, Bangkok.

Reform and recovery in East Asia by Prof P DRYSDALE with D Nellor, IMF, Tokyo, Dr H Soesastro, Centre for Strategic and International Studies, Jakarta, Prof M Kawai, World Bank, Washington, Dr B Nidhirabha, Thammasat University, Bangkok, Thailand, Prof C Findlay, University of Adelaide, Prof C S Yue, Institute of Southeast Asian Studies, Singapore, Dr A Unite, De La Salle University, Manila, The Philippines.

Beyond Japan Inc: transparency and reform in Japanese governance by Prof P DRYSDALE with Prof A Stockwin, Oxford University, UK, V Taylor, University of Melbourne, N Tanaka, 21st Century Policy Institute, Tokyo, Japan, Prof A Horiuchi, University of Tokyo, Tokyo, Japan.

APEC and its impact on China's economic policy making by Prof P DRYSDALE with Prof C Findlay, University of Adelaide, Prof Z Yunling, Chinese Academy of Social Sciences, Beijing, Dr Z Xiaobing, Chinese Academy of Social Sciences, Beijing, Dr S Xuegong, State Development Planning Commission, Beijing, L Kai, State Information Centre, Beijing, Z Jianjun, Ministry of Foreign Trade and Economic Cooperation, Beijing.

Issues, options and strategies for improving Japanese agricultural trade policies by Prof P DRYSDALE with Prof M Honma, Seikei University, Tokyo Japan, Prof A Rae, Massey University, Palmerston North, New Zealand.

Europe, East Asia and APEC by Prof P DRYSDALE with Prof D Vines, Oxford University, UK, Dr H Soesastro, Centre for Strategic and International Studies, Jakarta.

Japan, Australia and APEC by Prof P DRYSDALE with Prof K Ishigaki, Kobe University, Kobe, Japan, Prof S Katayama, Kobe University, Kobe, Japan, Prof K Nagatani, Kobe University, Kobe, Japan, Prof R Miyao, Kobe University, Kobe, Japan, Prof H Lee, Kobe University, Kobe, Japan, Prof S Nishijima, University, Kobe, Japan, Prof C Findlay, University of Adelaide, Dr H Soesastro, Centre for Strategic and International Studies, Jakarta, Indonesia.

Pacific and Asian History, Division of,

Social impacts of the Freeport mine, Irian Jaya, Indonesia by Dr C BALLARD with Dr N Sanggenafa and Dr A Dumatubun Universitas Cenderawasih Jayapura, Indonesia and Dr G Banks, ADFA, Canberra.

Qing dynasty history and the Yuan Ming Yuan by Dr G R BARMÉ with Assoc Prof L Conner, Yale University, Hartford, Connecticut, USA.

History of Wang Fu Jing, Beijing's main 20th century commercial centre by Dr G R BARMÉ with Sang Ye, The Australia Council, Sydney.

Post World War II American cultural history by Dr G R BARMÉ with Assoc Prof R Gordon, Long Bow Group, Boston, USA.

Digital Encyclopaedia Project by Dr G R BARMÉ with colleagues at the Long Bow Group in Boston and the digital media faculty at MIT a major on-line interactive website, 'The Encyclopaedia of 20th Century Chinese History'.

The Cultural Revolution Documentary Film Project by Dr G R BARMÉ with Dr C Hinton and Assoc Prof R Gordon of the Long Bow Group in Boston, Prof E Perry, Harvard University, Prof A Walder, Stanford University, Prof A Nathan, Columbia University.

Bursting the boundaries: places, persons, gender and disciplines by Profs D DENOON, B V LAL and H NELSON, Dr B DOUGLAS, C WEIR, M MORGAN and T BALEIWAQA (PAH, RSPAS) with Dr G Fry (IR, RSPAS), Dr P Turnbull (CCCR), K Teaiwa (Anthropology, RSPAS), G Rawlings (PMB, RSPAS) and Dr J Martinello and Dr A Chanter (University of Canberra).

Blackwells History of Australasia project by Prof D DENOON with Dr M Wyndham, Australian National University, Canberra and Prof P Mien-Smith, University of Canterbury, Christchurch, NZ.

A History of Papua New Guinea by Prof D DENOON with Dr Augustin Kituai, University of Papua New Guinea, PNG.

Encyclopaedia of Korea by Dr Y H CHOE-WALL with scholars from both Australian and overseas universities.

History of science in the comparative perspective by Prof J M D ELVIN with Dr A McFarlane, et al., King's College, Cambridge, UK.

Introduction of the concluding volumes of J Needham et al, *Science and Civilisation in China*, by Prof J M D ELVIN in collaboration with the Needham Research Institute.

Living genders: the embodiment of diversity in Southeast Asia by Dr P JACKSON with Dr M Johnson, Department of Anthropology, University of Hull, UK.

Encyclopaedia of the Pacific Islands by Prof B V LAL in collaboration with Pacific colleagues around the world.

A genetic study of schizophrenia in Fiji by Prof B V LAL with Dr B Mowry, Wolston Park Hospital, Wacol, Queensland.

Okinawan development by Prof G McCORMACK with Prof C Johnson, Japanese Policy Research Institute, Cadiff, California.

Okinawan development by Prof G McCORMACK with Prof K Miyamoto, Ritsumeikan University, Kyoto, Japan, Prof M Sasaki, Kanazawa University, Kanazawa, Japan and Prof K Takahara, Sapporo Gakuin University, Sapporo, Japan.

Constitutional debate in Japan: documents and analysis by Prof G McCORMACK with Prof G Hook, University of Sheffield, UK.

Multiculturalism in an age of globalisation by Prof T MORRIS-SUZUKI with Prof T Iyotani, et al., Hitotsubashi University, Tokyo, Japan.

Internationalisation of Japanese science and technology information by Prof T MORRIS-SUZUKI with Dr M Low, University of Queensland and Prof S Nakayama et al., Kanagawa University, Kanagawa, Japan.

Collaboration in the study of experiences and participation in World War II in Papua New Guinea by Prof H NELSON with Dr H Iwamoto, Tsukuba University, Tokyo, Japan and other scholars, including Papua New Guinea.

Research into World War II in Papua New Guinea by Prof H NELSON with the Australian War Memorial.

Collaboration with the Australian Museum on its opening exhibition by Prof H NELSON.

Chinese southern diaspora by Prof A REID, Prof J M D ELVIN, Dr C REYNOLDS, Prof A CURTHOYS, and Prof V HOOKER with Dr M Ong, Parliamentary

Library, Canberra, Prof G Wang, NUS, Singapore, Prof P Kuhn, Harvard University, Cambridge, USA, Prof D Goodman, UTS, Sydney, Dr M Ip, Auckland University, N Z, Dr C Inglis, Sydney University, Sydney, and Dr C-K Lai, Queensland University, Queensland.

Economic History of Southeast Asia Project by Prof A REID with Prof R Elson, Griffith University, Brisbane, Queensland; Dr J Butcher, Griffith University, Queensland; Prof M Falkus, University of New England, Armidale; Assoc Prof A Kaur, University of New England, Armidale; Assoc Prof H Dick, Melbourne University, Melbourne; Dr J Drabble, Sydney University, Sydney; Prof P Brocheux, Paris VII, France; Prof T Saito, Tokyo University of Foreign Studies, Japan; Prof A Booth, SOAS, University of London, UK; and Prof T Lindblad, Leiden University, Netherlands.

Asia-Pacific Network of Asian Studies by Prof A REID and Prof T MORRIS-SUZUKI with 25 representatives from 15 countries.

Politics and International Relations, Division of

Internation Relations, Department of

Financial reform and financial governance by Dr N HAMILTON-HART with K S Jomo, University of Malaya.

The development of the hard disk drive industry by Dr G NOBLE with the University of California, San Diego.

European firms in Asia by Prof J RAVENHILL with Prof V K Aggarwal, University of California, Berkeley.

Regionalism in Asia by Prof J RAVENHILL with Program on International Studies in Asia, George Washington University.

Technological change in East Asia after the financial crisis by Prof J RAVENHILL with Prof R Samuels, Massachusetts Institute of Technology.

Towards an ASEAN common market by Prof J RAVENHILL with the University of the Asia-Pacific, the Philippines.

US firms in Asia by Prof J RAVENHILL with Prof V K Aggarwal, University of California, Berkeley.

New Zealand and Asia: perceptions, identity and engagement by Dr Y ZHANG with New Zealand Asia Institute, University of Auckland.

Strategic and economic dynamics of Northeast Asia by Dr Y ZHANG with Centre for Strategic Studies, New Zealand and Department of Political Studies, University of Auckland.

Political and Social Change, Department of

Collaborative research project by Dr J AMYX with Prof Michio Muramatsu, International Research Center for Japanese Studies, Kyoto University, Kyoto, Japan This research was funded by the Japan Society for the Promotion of Science (JSPS).

Papua New Guinea election study 1997 by Dr RJ MAY with Department of Political and Administrative Studies, University of Papua New Guinea.

A study of institutions in economic development by Dr C BARLOW with colleagues at several Southeast Asian Universities, Beijing University and Oxford University.

A study of the Malaysian society and economy by Dr C BARLOW with colleagues at Malaysian universities.

Asia Pacific security outlook 1999 by Dr R J MAY with the Japan Center for International Exchange, Tokyo, and East-West Center, Hawaii.

Regime change and regime maintenance in Asia and the Pacific by Dr R J MAY with various institutions in Australia and overseas.

Muslim autonomy in Mindanao by Dr R J MAY with P Gowing, Memorial Research Center, Marawi City, Philippines.

Case studies on Pacific Ombudsmen and Leadership Codes, as part of work directed towards a regional conference and publication on evaluation of the experience of Ombudsmanship in the Pacific by A J REGAN with Faculty of Law, University of South Pacific, Port Vila, Vanuatu.

The origins of the Papua New Guinea Constitution, and the administration and reform of electoral law in Papua New Guinea by A J REGAN with Prof E P Wolfers of the Department of History and Politics, University of Wollongong.

Twenty years of the operation of the PNG Constitution by A J REGAN with E Kwa, Faculty of Law, University of Papua New Guinea and Assoc

Prof O Jessep, Faculty of Law, University of New South Wales.

Assisting the Papua New Guinea government to formulate an integrated National Anti-Corruption Strategy by Dr S DINNEN with the ANU's Centre for Democratic Institutions (CDI), and in collaboration with the regional director of the International Development Law Institute (IDLI).

The meanings and practices of freedom in Asia and Africa by Prof B KERKVLIIET with a group sponsored by the Center for the History of Freedom, Washington University, St. Louis, Missouri. Organisers of the group are Prof R Davis, Washington University, St. Louis, and Prof R Taylor, Vice Chancellor, Buckingham University, UK.

North-East Asia Project

The multilateralism in Asia and Europe by Prof S HARRIS with Prof S Nuttal, University of Bruges, Belgium.

Society and Environment, Division of

Anthropology, Department of

The future of tropical rainforest peoples in the Pacific by Dr C FILER with the University of Kent, Canterbury.

Policy that works for forests and people in Papua New Guinea by Dr C FILER with the International Institute for Environment and Development, UK.

Environmental adjustment in Papua New Guinea by Dr C FILER with K Kalit and the World Resources Institute, Washington DC, USA.

The mining and petroleum compensation regime in Papua New Guinea by Dr C FILER with D Henton and R Jackson with the PNG Chamber of Mines and Petroleum, Port Moresby.

The Kamoro/Mimika people of south-west Irian Jaya by T HARPLE with the Rijksmuseum voor Volkenkunde, Leiden, The Netherlands.

Continuation of discourses surrounding new technologies by Dr K ROBINSON with Assoc Prof J Goodall, University of Western Sydney, Hawkesbury, NSW.

Gender component of population and development in eastern Indonesia by Dr K ROBINSON with Dr Yulfita Raharjo, LIPI, Indonesia.

Mangrove rehabilitation in south Sulawesi, Indonesia by Dr K ROBINSON with Dr Y Winarto and other researchers, Department of Anthropology, University of Indonesia.

Lead and social policy by Dr K ROBINSON with Dr K McPhillips, University of Western Sydney and Prof L Bryson, University of Newcastle.

Continuing collaboration with the White Eagle clan by Dr D ROSE, Kurrindju country, North Australia.

Continuing collaboration with the American photographer Sharon D'Amico by Dr D ROSE.

Reflections on the use of historical evidence in the Yorta Yorta native title case by Dr D ROSE with the Native Title Research Unit, AIATSIS.

Photography in Papua New Guinea by Dr M YOUNG with J Clark, University of Canberra.

Archaeology and Natural History, Department of

Study of the environmental effects of complex societies in South Sulawesi, Indonesia by Prof G HOPE and Dr D Bowdery with the OXIS team headed by Dr Bulbeck.

Continuation of the Antarctic Hut Site Remediation Project by W AMBROSE with Dr I Godfrey, Western Australian Maritime Museum.

Pacific Colonisation Project by Prof A ANDERSON with Dr J P White, University of Sydney.

Southern Margins Project by Prof A ANDERSON with G O'Regan, Te Runanga o Ngai Tahu.

Pacific Clay Sourcing Project by Prof A ANDERSON with Dr D Kennett, California State University.

Christmas Island Project by Prof A ANDERSON and Prof G Hope with Dr P Wallin and Dr H Martinsson-Wallin, Kon Tiki Museum, Oslo.

Maupiti Project by Prof A ANDERSON with Prof E Conte, Paris I University and Dr Y Sinoto, Bishop Museum, Honolulu.

Niue Project by Prof A ANDERSON with Dr R Walter, University of Otago, New Zealand

Completion of analyses of human skeletal remains from a third millenium BC collective burial by Dr S BLAU with the National Museum of Ras al-Khaimah, United Arab Emirates.

The application of luminescence methods for the dating of rock art in tropical Australia by Prof R JONES with Dr R Roberts, LaTrobe University.

Fundamental research into the formation and dating of mineral skins overlying rock art in tropical Australia by Prof R JONES with Dr A Watchman, James Cook University.

The age and sex structure of southern elephant seals from the West Point midden, western Tasmania, and the likely cause of their local extinction due to prehistoric Aboriginal over-hunting by Prof R JONES with Prof M Bryden, University of Sydney, and Dr S O'Connor, Department of Archaeology and Natural History (RSPAS).

People of the Rivermouth: preparation of a CD ROM on the *Djobarr Texts* of Frank Gurrmanamana, Anbarra community of the north coast of central Arnhem Land by Prof R JONES with Dr L R Hiatt, independent scholar, London, K McKenzie, National Museum of Australia and Dr B Meehan, independent scholar, Canberra.

Luminescent methods to date the last phase of the Australian marsupial megafauna by Prof R JONES with Dr R Roberts, La Trobe University, and Dr T Flannery, Director, South Australian Museum.

The human ecology and land tenure of Aboriginal communities in north eastern Arnhem Land, with particular reference to the Anbarra and Ritharrngu peoples by Prof R JONES with Dr N White, La Trobe University, Dr B Meehan, independent scholar, Canberra, and Dr L R Hiatt, independent scholar, London.

Bridging Sunda and Sahul: the archaeology of the border area between Asia, Australia and Melanesia in Southeastern Maluku, Indonesia by Dr S O'CONNOR with Prof M Spriggs, Department of Archaeology and Anthropology, The Faculties, ANU, and Dr P Veth, Archaeology and Anthropology, James Cook University, Townsville.

Work on glacial histories of New Guinea by Prof G HOPE with Prof J Peterson, Monash University, and Dr M Prentice, University of New Hampshire, USA.

Fijian settlement impacts by Prof A ANDERSON, Prof G HOPE and G CLARK with Prof P Nunn,

University of South Pacific and National Museum, Suva, Fiji.

Human Geography, Department of

Maintenance of biodiversity by Dr B ALLEN with J Soweï, Papua New Guinea National Research Institute, Port Moresby.

Agricultural systems and land degradation by Dr B ALLEN with Dr G Humphries, Macquarie University, Sydney.

Farming systems in Papua New Guinea by Dr R M BOURKE with S Ivahupa, P Igua and P Vovola, Papua New Guinea National Agricultural Research Institute, Lae, Papua New Guinea.

Crop nutrient deficiencies in Papua New Guinea by Dr R M BOURKE with A Hartemink, International Soil Research and Information Centre, Wageningen, The Netherlands.

Community economies by Dr K GIBSON with Dr J Cameron and Assoc Prof A Venø, Monash University.

Rethinking Regional Economy Project by Dr K GIBSON with Prof J Graham, University of Massachusetts, Massachusetts, USA.

Corporate ethics by L MALAM with Dr P O'Neill, University of Newcastle, Newcastle.

Comparative natural resource management by M PRETES with Prof M Berman, University of Alaska-Anchorage, Alaska, USA.

Globalisation and regionalisation in the Pacific by M PRETES with Prof C Smith, Stanford University, California, USA.

United Nations Project on People, Land Management and Environmental Change (UNU/PLEC) by Dr T YAMAUCHI with Prof R Ohtsuka, University of Tokyo, Tokyo, Japan.

Economic History of Southeast Asia by Prof P RIMMER with Assoc Prof H Dick, University of Melbourne, Melbourne.

Globalisation and Urbanisation by Prof P RIMMER with Assoc Prof H Dick, University of Melbourne, Melbourne.

Osaka-Kansai and Melbourne-Victoria by Prof P RIMMER with Prof J Benson and Assoc Prof H Dick, University of Melbourne, Melbourne.

Linguistics, Department of

Papuan comparative linguistics by Prof A PAWLEY and Dr M ROSS with Prof W Foley, University of Sydney.

Kalam ethnobiology by Prof A PAWLEY with Dr R Gardner, Auckland Museum, and Dr I Majnep, Simbai, Madang Province, Papua New Guinea.

Prehistory of western Austronesian languages by Dr M ROSS with Prof B Nordhofer, University of Frankfurt.

Pidgins and creoles by Dr D TRYON with Dr J-M Charpentier, LACITO, Centre National de la Recherche Scientifique, Paris.

Mission languages by Dr D TRYON with Prof P Mühlhäusler, University of Adelaide.

Typology of three-place predicates by Dr J BOWDEN with Prof P Austin and Dr N Evans, University of Melbourne.

Gender Relations Project

Citizenship, fertility and sexuality in Asia and the Pacific by Prof M JOLLY with Dr K Ram, Australian Research Council Research Fellow, Macquarie University.

Engendering health in the Pacific by Prof M JOLLY with Dr V Lukere and Dr P Laing, Victoria University of Wellington, New Zealand.

Gender and health in New Zealand by Prof M JOLLY with Dr J Park, Auckland University, New Zealand (and Visiting Fellow, Gender Relations Project, and National Centre for Epidemiology and Population Health, ANU).

Oceanic transformations: gender and generation, indigeneity and diaspora in the Pacific by Prof M JOLLY with Prof M Mosko, Auckland University, New Zealand, and Prof S Tcherkezoff, CREDO, Marseille, France.

Southern transitions — gender relations in New Zealand and the Pacific by Prof M JOLLY with Prof E Olsen, Dr A Cooper, Dr R Law, Dr H Grant, Dr J Leckie, Otago University, Dunedin, New Zealand.

Exploring Asian/Australian identities, cultures and politics in an age of change by Dr L LAW with Ien Ang and M Thomas, Research Centre in Intercommunal Studies, University of Western Sydney, Nepean.

Oceanpoint ethnography of an Australian suburb by Dr A WHITTAKER with Dr L Connor, University of Newcastle.

Sexuality, maternity and fertility in Asia and the Pacific by Dr A WHITTAKER with Prof L Manderson, Director of Key Centre for Women's Health in Society, Faculty of Medicine, Dentistry, and Health Sciences, University of Melbourne.

Law Faculty

Project on the impact of norm form on legal negotiation by Prof S C BOTTOMLEY with Prof S Parker, Monash University; Prof J Dewar, Griffith University; and Prof T Wright, Justice Research Centre.

Project on investigatory and litigation powers and functions of the Australian Competition and Consumer Commission by A D P BRUCE with the Australian Competition and Consumer Commission.

Project on judicial review in Australian Democracy by Prof T D CAMPBELL with Prof J Goldsworthy, Faculty of Law, Monash University.

Project on extraterritoriality in international and Australian law by Prof H CHARLESWORTH with Office of International Law, Attorney-General's Department.

Project on feminist theory and international law by Prof H CHARLESWORTH with Prof C M Chinkin, London School of Economics.

Project on veterans' entitlements law in Australia by R M CREYKE with P Sutherland, Softlaw Community Projects and Department of Veterans' Affairs.

Project on environmental partnerships by Prof N A GUNNINGHAM with Victorian Environment Protection Agency and Department of Environment Western Australia.

Prof N A GUNNINGHAM co-authored books with Dr P Grabosky, Australian Institute of Criminology; Assoc Prof R Johnstone, University of Queensland.

Prof N A GUNNINGHAM was project leader on leaders and laggards in environmental regulation with University of California, Berkeley.

Project on mobility decisions in the Family Court by Dr P W EASTEAL with Dr J Behrens, Law Faculty ANU and L Young, Murdoch University.

A report on access and equity issues for rape survivors by Dr P W EASTEAL with Canberra Rape Crisis Centre.

Research on gender and criminology by Dr P W EASTEAL with L WOLFF, Law Faculty, ANU and Y Hosoi, University of Yoyo, Tokyo, Japan.

Organisation of administrative and teaching arrangements, staff and student exchange program by R McCORQUODALE with University of Alabama, USA.

Development by P SPENDER of agreement for ANU to supply professional certificate in arbitration and mediation as a provider university with Institute of Arbitrators and Mediators and University of Adelaide.

P SPENDER, instructor, Australian Graduate School of Management, member working group, ANU and University of Canberra, Cooperation over Practical Legal Education.

Project on public sector employment law by P C WEEKS with M Pittard, Monash University.

Editorial work on the Australian Federal judicial system by Dr F D WHEELER with B Opeskin, Faculty of Law, University of Sydney.

Research on gender and criminology by L WOLFF with Dr P EASTEAL, Law Faculty, ANU and Y Hosoi, University of Yoyo, Tokyo, Japan.

Principal Grants and Donations

The University is indebted to those organisations and individuals who make grants, research contracts, consultancies and donations for use in research and other activities. Such funds play an important role in the ongoing activities of the University. The following list includes grants and donations reported to Council during 1999.

Grants

Donor	Purpose	Amount
AACM International Pty Ltd	Consultancy: Professional Services Consultancy — Monitoring and Evaluation Specialist	71,890
Aboriginal & Torres Strait Islander Commission	Consultancy: Indigenous Access to Banking Services in Central Australia	20,000
	Consultancy: ATSIC Submission to the Human Rights and Equal Opportunity Commission's Inquiry into Rural and Remote Education from the Perspective of Indigenous Children	38,100
	Consultancy: Barriers to Aboriginal Development	40,000
	Consultancy: Regional Economic Study in the East Kimberley	87,000
ACT Cancer Society	Adaptive Transfer of In Vitro Generated Dendritic Cells for Development of Anti-Tumour Immunity	34,312
ACT Chief Ministers Department	Touring Exhibition of Graduates and Students of Canberra School of Art Gold and Silversmithing Workshop	13,585
ACT Department of Education and Community Services Schools	Biological Sciences in the ACT (BISACT)	33,400
ACT Department of Urban Services	Consultancy: Conservation Genetics of the Earless Dragon Lizard	8,664
American Orchid Society	<i>Grants for Orchid Research</i>	
	Development of New Genetic Markers for the Study of Gene Flow & Paternity Analysis in the Sexually Deceptive Orchid Genus, <i>Chiloglottis</i>	55,400
AOFR Pty Ltd	Design, Fabrication and Evaluation of Planar Lightwave Circuits in Organically Modified Silicate Glasses for Telecommunications and other Applications	54,000
Asia-Pacific Economic Cooperation Secretariat (APEC)	Consultancy: APEC Labour Market Information Group Database Maintenance Phase II	76,900
APEC Business Advisory Council (ABAC)	Consultancy: AUSPECC/DFAT/ABAC	60,000
Asia Education Foundation	<i>NALSAS Studies of Asia Professional Development Modules</i>	
	Trial of English Modules	10,000
Austraining International Pty Ltd	Consultancy: Public Sector Placements-Customised Training/Work Attachments For PNG Public Officials	155,278
Australasian Cochrane Centre, Flinders Medial Centre	The Cochrane Review Project	10,000
Australia and Pacific Science Foundation	Pleistocene & mid-Holocene Occupation of New Ireland & New Hanover	6,844
	<i>Grant-in-Aid</i>	
	The Origins of Highlands Rectilinear Field Systems: Archaeological & Palaeoenvironmental Investigations of Phase 3 at KUK Swamp, Western Highlands Province, PNG	8,660
Australia Council for the Arts	<i>Visual Arts/Craft Fund</i>	
	Touring Exhibition of Graduates and Students of Canberra School of Art Gold and Silversmithing Workshop	25,000
	Across-An Exhibition of Indigenous Art & Culture	35,000
Australia-Indonesia Institute	The Role of Islam in Indonesia's Transition to Democracy	48,000
Australian Agency for International Development	Indonesian Project	2,506

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	Consultancy: Ad Hoc Services for the Technical Advisory Group of the South Pacific Sea Level and Climate Monitoring Project	3,500
	Consultancy: Short Course Training — Corruption and Anti-Corruption	7,172
	Consultancy: Short Course Training for Penina Lalabalavu of Fiji in Management and Organisational Change	8,700
	Grant: Meeting of East Timorese Political Leaders and Development Experts	23,724
	Consultancy: Development & Public Policy Analysis Short Course for Thai Participants	31,062
	Consultancy: Production Of Volume 14, No 2 1999 of The Pacific Economic Bulletin	47,615
	Consultancy: Provision of Technical Services — Strategic Planning Advice, East Timor	100,000
	Consultancy: AusAID Governance Training	100,000
	Consultancy: Strengthening National Economic Management Short Course	109,922
	Consultancy: Development and Public Policy Analysis Short Course for Thai Participants	118,459
	Consultancy: Public Sector Management And Organisational Change Short Course	125,046
	State, Society and Governance in Melanesia Project	162,280
	The Philippine Economy Project	261,550
	Provision of Grants to Support Funding for the Research Functions of the National Centre for Development Studies	551,000
	Consultancy: Development of a CGE Model for Fiji	32,624
	<i>International Seminars Support Scheme</i>	
	Good Governance and Law in Indonesia	13,386
	Resistance to behavioural change to reduce HIV/AIDS infection	19,940
	<i>Postdoctoral Fellowship for Research on Economic Issues in Papua New Guinea</i>	
	Implementation of the Exchange Rate System in PNG and Private Sector Development, the Problem and Benefits of Implementing Industrial Zones in PNG	59,321
	Tourism as an Avenue Towards Economic Development for PNG — Assessment of Tax Reform in PNG	59,321
	<i>Centre for Democratic Institutions</i>	
	Consultancy — Thailand Democratic Governance Support Project	104,091
Australian Competition and Consumer Commission	Consultancy: Economic Advisory Services Arising and Longer Term Projects with General Research Agenda Covering Contract Theory, Industrial Organisation, Microeconomic Theory, Law and Economics	10,500
Australian CRC for Renewable Energy Ltd	High School and Community Information	44,000
	PV/Trough Concentrator Systems	765,000
Australian Defence Force Academy	Provision of the Year One Familiarisation Training Program and the Advanced Mentoring Skills Program for ADFA	74,100
Australian Federal Police	Development of Powerful New DNA based Investigative Tools for the Forensic Analysis of Cannabis Sativa	10,000
Australian Greenhouse Office	Consultancy: Guide to Workbook 4.2 and Supplement	2,500
	Second Lead Authors Meeting, IPCC Working Group	10,000
	<i>Experts Funding Program</i>	
	<i>Intergovernmental Panel on Climate Change (IPCC)</i>	
	Methodological Issues Relating to greenhouse Gas Inventories and Emissions projections, Including IPCC Special Report on Land Use, Land Use Change, Forestry and Carbon Emissions.	15,000
	Consultancy: National Carbon Accounting System Decay of Coarse Litter and Root Material	36,475

Principal Grants and Donations

	Consultancy: Compilation of the 1997 National Greenhouse Inventory for the Land Use Change and Forestry Sector	75,000
	Consultancy: Biomass and Accumulation under the National Carbon Accounting System	111,260
Australian Heritage Commission	<i>National Estate Grants Program</i> Heritage and the Community — Theory and Practice, Part A	21,625
Australian Institute of Aboriginal & Torres Strait Islander Studies	Central Australian Conceptions of Health and the Body	14,666
	People and Place in the Tanami Desert	15,888
	Technological Change in the Eastern Victoria River Region, Northern Australia	16,440
	A Robust 14C Chronology for the Occupation of Australia	24,266
Australian Institute of Health and Welfare	Consultancy: Analyse and Report on Expenditure On Health Care For Aboriginal And Torres Strait Islander Peoples	70,000
Australian Key Centre for Cultural & Media Policy	Contribution to Conference: National Museums, Negotiating Histories	5,000
Australian Mineral Industries Research Association Limited	Igneous Metallogenic Systems of Eastern Australia	109,000
Australian Nuclear Science & Technology Organisation	Visit to Canada, France, Hawaii Telescope, Mauna Kea, USA — Going Back in Time	2,300
	Crystallographic Studies of the N Terminal Domain of the Protein TyrR	2,600
	<i>Access to Major Research Facilities Program</i>	
	Visit SAAO, South Africa — Infrared JHK Photometry of Hipparcos Subdwarfs	2,450
	Visit Keck Observatory, Cal/Tech University of California, Mauna Kea Hawaii, USA — Star formation in Distant Galaxies	2,700
	Visit CTIO La Serena, Chile — Measuring Cosmic Deceleration & Global Expansion of the Universe with Type Ia Supernovae	2,720
	Visit CTIO & ESO Chile — Galaxy Populations within Redshift Clusters	2,874
	Visit to IRAM, Spain — Use of 3-m Telescope at Millimeter Wavelength	3,000
	In Situ Determination of Precious Metal (Au,Ag) Solubilities & Speciation Measured in Synthetic Fluid Inclusions	6,050
	Visit: Advanced Photon Source, Argonne National Laboratory, USA: In Situ Determination of Precious Metal Solubilities & Speciation Measured in Synthetic Fluid Inclusions at T>350 C	6,600
	Visit La Palma Observatory, Canary Islands — Determining the Distances to High Velocity Clouds	6,820
	EXAFS Characterisation of Implantation-Induced Disorder in Compound Semiconductors	8,130
	Visit to Argonne National Laboratory — Phase and Interaction of Prolate-Oblate Shape Co-existence	10,207
	Visit BioCAT, Advanced Photon Source — A Study of Hair in Disease	7,050
	<i>Australian Synchrotron Research Program (ASRP) — Research Fellowship</i>	
	Matrix Deformation in Rubber-toughened Thermoplastics	2,190
	Visit IPNS, Argonne National Laboratory, USA — Silicalite & Zeolite A Nucleation from Colloidal Solutions	3,885
	XRD and XAFS Study of Cobalt Doped Nanocrystalline	4,180
	EXAFS Measurements of Amorphised Semiconductors. Grant to visit ANBF, Photon Factory, Japan.	4,480
	Visit to ANBF, Photon Factory, Japan: The Stability of Cr2	6,530
	Visit the BioCARS Workshop on Beamline Improvements, Advanced Photon Source, Argonne National Laboratory, USA	2,276
	Visit the Photon Factory, Japan. Quarternary Niobium Oxides — Metal Ion Ordering and Structure Refinement	6,420

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	Visit Rutherford Appleton Lab, UK — Effect of Surfactant Dilution on Membrane Structure	6,500
	Visit Argonne National Laboratory, USA — Potential of Hair as a Diagnostic Tool For Breast Cancer #2	7,050
Australian Red Cross Blood Supply	Consultancy: Haemovigilance Working Party	13,068
Australian Scientific Instruments	Indentation Studies of Semiconductor Thin Films	15,000
Boao Investment Holdings Ltd for consortium including COSCO Ltd and Hainan Provincial Government	The Study On The Implementation Plan Of the Proposed 'Asian Forum'	153,800
Bureau of Rural Sciences	Individual Tradeable Quotas in the South East Fishery: Literature Review and Analysis	7,650
Central Western Regional Development Board	<i>Central Tablelands Farm Forestry Project</i>	
	Literature Review: 'Ecology and Management of Cypress Pine and Eucalypt Forests in the Western Districts of NSW with Special Emphasis on Privately Owned Forests.	16,849
Clive and Vera Ramaciotti Foundations	Immunohistochemical Evidence for Nitric Oxide Generation and Activity in Human Cerebral Malaria	10,000
	Computer Algorithms for Identifying Antigens that Induce Diabetes	10,000
	Role of Presynaptic Calcium in Short Term Synaptic Plasticity at a Central Synapse	10,000
	Properties of Novel GABA Receptors in the Amygdala	10,000
	A Microscope for Studying the Cell Physiology of the Intracellular Malaria Parasite	12,000
	Unique Genes and Receptors Expressed by Dendritic Cells Produced in Long Term in vitro Culture	15,000
	The Molecular Mechanisms Regulating the Retrograde Axonal Transport of Neurotrophins and their Effect on Neuronal Survival	18,000
Commonwealth Scientific Industrial Research Organisation	GIS Training for Indian Forest Scientists	12,000
	Noble Metal Geochemistry Of Magnetite From Volcanic Arcs	63,000
Consulate General of Republic of Korea	Korean Film Evenings	7,920
Cooper (Rebecca L) Medical Research Foundation	Gene Transfer Technologies — DNA Thermocycler	12,000
Cotton Research and Development Corporation	Testing The Tomato 1-2 Resistance Gene For Its Ability To Confer Fusarium Resistance In Cotton	170,715
CRC for Sustainable Development of Tropical Savannas	Administration for the CRC for Sustainable Development of Tropical Savannas	49,355
CRC for Sustainable Production Forestry	Plantation Policy-Makers: Stakeholder Perspectives and Issues of Concern for Future Policy Development	6,500
CSR Timber Products	PhD Scholarship: Factors Affecting the Penetration of Resins in Decor Papers Used for Low Pressure Melamine Overlays	10,000
Dames and Moore	Development of Evaluation Skills at the Regional Level for Commercial Farm Forestry	43,375
David and Lucile Packard Foundation	The John C Caldwell Chair in Population, Health and Development	76,900
Department of Agriculture, Fisheries & Forestry	Review of Sustainable Yield Issues by the Wombat Forest Society	20,473
Department of Communications, Information Technology and the Arts	<i>Visions of Australia</i>	
	What John Berger Saw	13,250
Department of Defence	Consultancy: Development and Delivery of Module 4 of the Academic Program of the ADC	117,792
	Professorship in Australian Defence History	360,000
Department of Education, Training & Youth Affairs	Provision of Services Under the Aboriginal Tutorial Assistance Scheme (ATAS)	133,605

Principal Grants and Donations

Australian Research Council Small Research Grants

Dimensions of the Automorphism Groups of Smoothly Bounded Domains in Complex Space	3,652
The Colonial's Past Present Perfect: Histories of Indigenous People and of their Relations With Settlers in Australia and Aotearoa, New Zealand	4,600
The Sources of American Conduct: Critical Reflections on US Strategy in the Cold War and Beyond	5,598
Spectroscopy of Exotic, Neutron-Rich Nuclei at and above the Doubly-Closed Shell at 208 82 Pb 126	6,200
Japan's Emerging Law Against Sexual Harrassment: Can Law Achieve Gender Equity in Japan	6,300
The Contribution of Military Surgeons to British Racial Science, c. 1815-1860	6,600
Feminist Perspectives on Australia and the Asian Crisis	7,700
Response to Land Use and Climate Change in the Luni River Catchment, NW India	8,030
The Importance of the Degree of Reduction for the Colour Development in Copper Red Glazes	8,300
History and National Identity in Post WWII Australia	9,000
A Model of IPO Market Fluctuations	9,600
Geographical Distribution of Lexical Tone Sandhi in the Wu Dialects	9,610
Uniform Versus Discriminatory-Price Treasury Bill Auctions	9,620
A Mathematical Approach to Stromatolite Morphogenesis and Classification with Significance for Understanding the Evolution of Proterozoic Environments	9,900
Studies in Orientalism, Gender and Nineteenth Century Visual Culture	11,110
The Impact of Corporate Restructuring on Wages and Employment	11,110
Remembering the Stolen Generations: The Cultural Politics of Trauma and Memory in Contemporary Australia	11,200
Products of Nilpotent Groups	11,430
Characterisation of Toughening Mechanisms in Rubber-Modified Thermoplastics	11,650
Leaders and Laggards: An investigation of Environmental Performance in the Pulp and Paper Sector	12,000
Biography of a Marriage: Harriett Gold and Elias Boudinot, 1820-1836, in Connecticut and the Cherokee Nation	12,200
Liability of Internet Service Providers for Online Content	12,290
The Application of Safe Chemical Treatments of Fabrics for Innovative Contemporary Australian Textiles	12,500
Short Term Implicit Memory and its Functional Role in Perception	12,600
Polymetallic Polymers	12,600
A Spectroscopic and Theoretical Study of Metal-Metal Bonded Complexes	12,750
Contingent Valuation for Public Outlays	12,820
Satellite Tracking of Flying-Foxes: A Trial of Concept	13,200
Colonial Art and Visual Culture in French Indochina, 1885-1935	13,200
Proof Theoretic Implementations of Computer Science Logics	13,200
Australian Credit Union Managers: Screening, Selection and Socialisation Processes	13,300
Biogeography and Endemism of Australian Plants	13,350
Genetic and Ecological Characteristics of Esherichia Coli from Primary and Secondary Habitats	13,350
A Nonlinear Financial Time-Series Study Using Evolutionary Algorithms for Forecasting Australian Stock Market Indicators and Exchange Rates	13,450
The Dreyfus Affair and the Jewish Body	14,300
Political Economy and Culture of Indigenous Peoples: A Central Indian Case Study	14,300
Nonverbal Communication and the Organisation of Interaction in French	14,720

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Areal Linguistics and Language Typology	15,000
Development of an Oral Vaccine to Prevent Shigellosis and Rotavirus Infections	15,200
A Colonial Disorder: Degeneration and Race in the Nineteenth Century Pacific	15,400
Competition, Frustration and Hypertension: A Psychophysiological Model	15,400
Competition, Frustration and Hypertension: A Psychophysiological Model	15,400
Accretion Processes in Interacting Binaries	15,500
Verified Code Optimisation for Statically-Scheduled Pipelined Processors	15,700
Support for a Feodor Lynen Fellow	16,000
Structure and Function of Ammonium Transporters from Arabidopsis	16,020
Reading Human Faces: From the Psychology of Facial Expression to the Semantics of Facial Expression	17,000
Debt Financing and Growth in (Small) Owner-Managed Firms	17,600
Investigation of Mechanochemical Reactions	17,600
The Etymology of Australian Words and Idioms	18,000
Irigaray and the Political: The Ethical and Political Philosophy of Luce Irigaray	18,000
Globalisation on Trial? The Impact of IMF Intervention in Asia on Democratic Governance and Human Rights Protection	18,000
The Implications of Extra-Territorial Legislation for Australia	18,000
A History of Australian Women Cartoonists from the Mid-Nineteenth Century until Today	18,000
Faecal Near Infrared Spectroscopy as a Predictor of Diet Quality in Free-Ranging Marsupials	18,150
Functional Capacity of CDa+ and CDa- DC Generated in Long Term in Vitro Culture	18,450
Bioactive Secondary Metabolites of Cyanobacteria	18,450
Chiral Gold- and Platinum-Based Anticancer Agents	18,580
Experimental and Computational Study of Laminar Hypersonic Boundary Layers	18,700
The Enlightenment World	19,000
Australian Piano Music of The Twentieth Century	19,000
Improve Hierarchical Decoder	19,300
Biophysical and Chemical Properties of a Small Synthetic Peptide-induced Ion Current Activity in Artificial Bilayers	21,360
Beam-splitters for Atom Interferometry	22,000
Asymmetric Synthesis of Natural Products using Fischer Carbenes	22,000
Integration of Membrane Transport and Metabolism During Nitrogen Fixation in Symbiosomes from Soybean Nodules	22,000
Structural Studies of the Mn Cluster Responsible for Oxygen Evolution in Plants	23,100
Data Analysis for Gravitational Radiation Detectors	25,000
Permeation of Ions Across the Potassium Channel: Electrostatic, Brownian and Molecular Dynamics Studies	26,000
<i>Australian Research Council Collaborative Research Grants</i>	
Catastrophic Flooding in Urban Areas	35,000
<i>Australian Research Council Large Research Grants</i>	
Regulation and Role of Uncoupled Respiration in Plants	90,000
Corporate Leadership in Twentieth-Century Australia	46,000
Assessment of Financial Risk, The use of Derivative Products and the Development of Financial Risk Management models for Commonwealth Organisations	78,000
Americanization, Popular Culture and Modernity in Australia 1915–1930	89,000
Beyond the French Feminisms: Twentieth Century French Women Philosophers	90,000
Macaroni Metropolis: Fashion, Gender, Sociability and Empire in Late Eighteenth-Century Britain	96,000

Principal Grants and Donations

Extrapolating Leaf Palatability for Native Herbivores to Habitat Maps through Hyperspectral Remote Sensing	99,500
The Thai and Lao Writing Systems: Phonological Change and Orthographic Practice	104,000
The Role of Shareholders' Meetings in Improving Corporate Governance in Australian Public Companies	107,000
A Theory of Cultural Scripts — A Model and Its Applications	130,000
Source and Evolution of Strongly Fractionated Granites	135,000
Australian Tiger Snakes as a Model System in Evolutionary Ecology: Phylogenetic and Comparative Aspects of Body Size and Venom Evolution	135,000
Australian Tiger Snakes as a Model System in Evolutionary Ecology: Phylogenetic and Comparative Aspects of Body Size and Venom Evolution	135,000
The Social Psychology of Intergroup Relations: Investigating the Role of Individual and Group Factors in Explaining Ethnocentrism, Prejudice and Discrimination	147,000
The Discrete Event Modelling and Control of Blending Production Systems	150,409
Jet-Cloud Interactions in Active Galactic Nuclei	166,000
The Palaeoceanographic Evolution of the Southern Tasman Sea	170,000
Measurement of the Interaction Between Colloidal Surfaces using a Device Based on the Atomic Force Microscope	172,000
Epilift Silicon Wafers	174,000
Signal Processing for Microphone Arrays	181,853
Models and Statistical Methods Concerned with Preventing Epidemics	186,369
Determinants of Evolutionary Trajectories in Elapid Snakes	193,000
Biased Bootstrap Methods	238,728
Random Tilings and Asymmetric Exclusion Processes	258,000
Correlated Photons: Quantum Experiments and Applications Using an Optical Parametric Oscillator (OPO)	420,000
<i>Australian Research Council, Research Fellowships: Australian Research Fellowships</i>	
Scattering Theory and the Quantum N-Body Problem	340,610
<i>Australian Research Council, Australian Research Fellowships Scheme: Australian Postdoctoral Research Fellowship</i>	
Melting Relations of Continental Crust Within the Diamond Stability Field- Experimental Studies Related to Microdiamond Occurrence in Gneissic Terranes	169,223
Quantitative Compositional Analysis of Materials with Heavy Ion Elastic Recoil Detection	174,576
Visual Images as Both Records and Products of Cultural Contact Between Indigenous and White Australians	174,576
Community Science: Improving the Theory, Policy and Practice of Volunteer-Agency Collaboration for Resource and Environmental Management	174,576
Cuckoo Parasitism and Host Defences in Australia	169,223
Metal Replacement Studies of the Oxygen Evolving Centre of Photosystem II	177,009
Sexual Selection in a Large Dasyurid Marsupial	172,793
Can Unrelated Transposable Elements Interact via their Transposases?	174,576
Pro-Indigenous Politics during the Inter-War Years: A Comparative Study of British Commonwealth Women's Activism	142,266
Hydrophobic Attractions & Electrostatic Replussions: Transitional Effects	177,009
<i>Australian Research Council, Australian Research Fellowships Scheme: Senior Research Fellowship</i>	
Applications of the Choice — Theoretic Approach to Economic Analysis	313,161
Advanced Organometallic Materials	388,025
Synaptic Biophysics	375,658
Areal Linguistics and Language Typology	521,935

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Australian Research Council, Research Fellowships Program: Queen Elizabeth II Fellowship

Characterising the Island Southeast Asian Neolithic Transition: A Comparison of Pre-ceramic and Ceramic (Neolithic) Maritime Cultures in the Aru Islands 378,715

Australian Research Council, Indigenous Researchers Development Scheme

The Protection of Indigenous Rights in Australia and Canada: A Comparative Legal Study 17,900

Evaluations and Investigations Program

Australia's Information Future Workshop 20,000

Postdoctoral Training and Employment Outcomes 83,320

Quality Assurance and Accreditation in Australian Higher Education 94,260

Australian Research Council, Higher Education Innovation Program

Teaching Excellence in Social Science (National Award for University Teaching: Social Science) 40,000

Fieldscreen Development 155,050

Australian Research Council, International Research Fellowship

The Making and Reception of Contemporary Oceanic Art 82,628

Applications of Three-Dimensional Radiative Transfer to Problems in Astrophysics 84,767

Australian Research Council, International Researcher Exchange Program (IREX)

Bioactive Constituents of Eucalyptus Foliage 21,400

Pattern Recognition in the Honeybee: Neural Mechanisms Underlying Orientation Analysis 53,409

Light Emission from Self-Assembled Nanocrystals in Silicon Dioxide Understanding and Applications 60,203

Electron Collision Studies of Excited Atoms and Molecules using Recoil Atom, Time of Flight Spectroscopy 97,278

Australian Research Council, Research Infrastructure Equipment and Facilities Program

Australian Key Journals Project: Increasing Access to Australian Research Information 100,000

The Use of Digital Imaging to Study the Movement of Ions and Proteins following Receptor Activation in Multiple Cell Types 120,000

Multi-photon Fluorescence Microscopy for Live-cell Applications 126,000

Electrical Discharging Machine Facility 170,000

Enhanced Data Acquisition System for the Detection of Exotic Nuclear States 350,000

National Experimental Field Robotics Facility 492,000

Metal Organic Chemical Vapour Deposition Reactor for the Growth of III-V Compound Semiconductor 1,100,000

Australian Research Council, Strategic Partnerships with Industry — Research & Training (SPIRT)

Low Night Temperature Inhibition of Subsequent Photosynthetic Assimilation in Grapevines: Understanding the 10 degree Threshold in Cool Climate Vineyards 62,268

Indentation Studies of Semiconductor Thin Films 62,268

Invariant Cluster Analysis for Data Mining 62,268

Evaluating Environmental Regulation: an Empirical Analysis of Reform in Australia 174,000

Design, Fabrication and Evaluation of Planar Lightwave Circuits in Organically Modified Silicate Glasses for Telecommunications and other Applications 219,840

Linking Catchment Characteristics to Sediment and Nutrient generation in the Upper Murrumbidgee — A New Modelling Framework 62,268

University Mobility in Asia and the Pacific (UMAP)

Principal Grants and Donations

	Year in China (Beijing University, Shanghai University, University of Science & Technology of China in Hefei)	54,000
	Year in China: Year in Chinese, Tapei	22,000
	Year in Korea (Keimyong University, Ewha Women's University, Hanguk University)	27,000
	Consultancy: Reporting on the Higher Education Reform Agenda in Japan and Opportunities for Australian Higher Education Institutions	27,709
Department of Employment, Workplace Relations & Small Business	Consultancy: Innovative Labour Market Adjustment Programmes and Policies in APEC Member Economies: A Report	31,140
Department of Environmental Protection, Western Australia	Evaluating Environmental Regulation: an Empirical Analysis of Reform in Australia	6,000
Department of Family and Community Services	Consultancy: Provision of Consultancy Services for the Evaluation of a Pilot Program for Parenting Payment Recipients	20,000
	<i>National Council for Prevention of Child Abuse Research Grants</i>	
	An evaluation of an intervention program to combat child abuse and neglect and to provide health promotion for children of drug users	39,201
Department of Foreign Affairs and Trade	Research and Development Grant: Issues, Options and Strategies for Improving Japanese Agricultural Trade Policies	30,000
	Consultancy: Asian Agrifood Demand Modelling	71,595
	Consultancy: ASEAN Auto Industry Consultancy	220,500
Department of Health (NSW)	<i>National Women's Health Program</i>	
	Gender, Diabetes and Health	50,000
Department of Health and Aged Care	Mental Health Index and Child Behaviour Checklist	19,235
	Consultancy: Assessment of Aboriginal Health Needs In ACT & Region Especially Aged Care & Treatment For young indigenous people with high levels of alcohol and other drug abuse.	70,000
	<i>Public Health Division</i>	
	Developing and Conducting a Master of Applied Epidemiology in Aboriginal Health Course	500,000
Department of Human Services (Victoria)	Consultancy: Financing of Laboratory Activity of Public Health Significance	59,850
Department of Industry, Science and Resources	<i>Technology Diffusion Program</i>	
	Atomic and Molecular Databases Producers and Users International Interactive Forum	4,734
	Developing a Business Model for Commercialisation of Semiconductor Photonics Components.	65,000
	<i>Industrial Research Alliances Program</i>	
	Models for the Deposition of Banded-Iron Formations, a Holistic Sequence and Stable Isotope Approach	6,590
	High Performance Computing and Advanced Visualisation in Plasma Physics Research	14,000
	Impurity Effects in Mesoscopic Systems	20,000
	Industrial Research Alliances Program — Multicolour Active Galactic Nuclei Monitoring with an Automated 2 Metre Telescope	39,180
	<i>The Cooperative Research Centres Program</i>	
	Greenhouse Accounting CRC	15,360,000
	<i>Targeting Research Alliances</i>	
	Fieldscreen Research Project — International Research and Commercial Alliances	12,910
	Developing a Strategy for Cooperative Materials Technology Projects with China	30,000
Department of Land and Water Conservation, (NSW)	Linking Catchment Characteristics to Sediment and Nutrient generation in the Upper Murrumbidgee — A New Modelling Framework	45,000
Department of Natural Resources	Consultancy: Understanding Public Participation in Forest Planning in Australia	10,000

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Department of Prime Minister and Cabinet	Consultancy: Discussion Paper on Indigenous Retention Rates	23,400
Department of Urban Services	Linking Catchment Characteristics to Sediment and Nutrient generation in the Upper Murrumbidgee — A New Modelling Framework	30,000
Earthwatch	Earthwatch Volunteer Field Project Assistance (Leadbetter's Possum)	38,800
Department of Employment, Work-place Relations and Small Business	Consultancy: Analysis of data from the longitudinal survey of ATSI job seekers	106,000
Environment Australia	<i>National Heritage Trust Bushcare Program</i>	
	The Cost of Revegetation	20,000
	<i>Participatory Program Grants</i>	
	Revision of Gastrolobium (Fabaceae)	3,500
	A Revision of the Lichen Genus Buellia in Australia	45,000
Environment Protection Authority, Victoria	Evaluating Environmental Regulation: an Empirical Analysis of Reform in Australia	37,500
Environment Protection Agency, NSW	Consultancy: Review paper on techniques to estimate catchment exports	20,000
Flinders University of South Australia	<i>Research Infrastructure Equipment and Facilities Program</i>	
	National Facility for Collision Studies of Molecules and Radicals of Technological Interest	100,000
Forest and Wood Products Research and Development Corporation	Evaluation of Soil Organic Matter as a Meaningful Indicator of Important Soil Properties and Processes in Native Forest Ecosystems	200,000
Gordon Darling Foundation	<i>Grants in the Visual Arts</i>	
	What John Berger Saw	8,000
Grains Research & Development Corporation	<i>Research Scholarship / Undergraduate Honours Scholarship 1999–2000</i>	
	Characterisation of Gaemannomycin: A New Anti-fungal Agent Effective against Take-All Fungal Pathogen	78,000
Grape & Wine Research & Development Corporation	Improving Vineyard Productivity And Sustainability And Wine Quality Through Better Analysis Of Key Rock, Soil And Landscape Factors	59,523
Green Medicine Company, The	Clear the Way Flu Trial	20,000
Greening Australia Limited	Consultancy: Environment Gap Analysis for Bushcare Support	13,000
GRM International Pty Ltd	Consultancy: India Australia Training and Capacity Building Project (IATCBP) SP 27 — Improved Efficiency of Sikkim State Agencies	24,725
Health Insurance Commission	Invariant Cluster Analysis for Data Mining	15,000
IEEE Electron Devices Society	11th International Semiconducting and Insulating Materials Conference	153,800
Institute of National Affairs	Consultancy: Compensation Policy In Papua New Guinea	171,275
International Finance Corporation	Consultancy: China Private Sector Study	436,400
International Monetary Fund	Reform and Recovery in East Asia: The Role of the State and Economic Enterprise	50,000
International Reading Association	<i>Eva Knight Grant</i>	
	Integrating Perceptual and Cognitive Models of Dyslexia	7,700
Land & Water Resources Research & Development Corporation	Modelling the Effects of Land use and Climate on Erosion, Phosphorus and Sediment Movement in the Namoi River	16,000
	<i>Postgraduate Research Scholarship Award</i>	
	Environmental Science: From Independent Experts to Post-Modern Process Managers	75,000
Lanz Agricultural Consulting	Consultancy: P Release Trial at Robertson, NSW	7,440
Medical Research Council Centre	Overexpression and Purification of the Extracellular Domains of the Nicotinic Acetylcholine Receptor	53,300
Monash University	Consultancy: Evaluation of the ACT Pilot Database for the National Coroners Information System (NCIS)	9,397
	Australian Mekong Research Network Consultancy	9,600
	Biological Evaluation of the Spinosyn Class of Insecticides	68,000
Motor Neurone Disease Research Institute of Australia Inc	<i>Grants-in-aid</i>	

Principal Grants and Donations

	Determining the Role of Cu/Zn Superoxide Dismutase (SOD1) in Motor Neurone Disease	21,000
	Persistent Sodium Channels in SOD Mutated Motor Neuron: A Novel Target for ALS Drug Treatment	23,500
Museum of Applied Arts & Sciences	Software Licence Agreement — Powerhouse	25,000
National Australia Bank	Call Centre Robustness	12,650
National Board of Employment, Education and Training	Membership in the ARC Research Training and Careers Committee	11,980
National Centre for Immunisation Research and Surveillance	Consultancy: Comparison of Projected Benefits from Vaccines Likely to be Licensed in Australia Before 2001	28,080
National Council for the Centenary of Federation	<i>Centenary of Federation Fund</i>	
	The Oxford Companion to the High Court of Australia	75,000
National Council of Independent Schools Association	Consultancy: Evaluation of Vocational Education Project	16,000
National Health and Medical Research Council	<i>Dora Lush (Biomedical) Postgraduate Research Scholarships</i>	
	Features of the Visual Input and Neurotransmitters Responsible for the Control of Eye Growth	8,884
	Imprinting of Immunological Self-recognition in the Foetus	35,550
	<i>Equipment Grant Support</i>	
	X-Ray Film Processor/Developer	10,000
	Light Microscope	13,000
	<i>PHRDC — CARG Scholarship</i>	
	Human Rights and HIV/Aids	22,683
	<i>Project Grants</i>	
	Passive Smoking and Age-related Maculopathy: The Blue Mountains Health Study	30,569
	Antimalarial Properties of Clotrimazole and Other Imidazoles	179,518
	Regulation of Nuclear Import of HIV-1 Proteins	205,389
	Ion Transport in the Malaria Parasite, Plasmodium Falciparum	220,482
	An Economic and Epidemiological Simulation Model of Cancer and Cardiovascular Disease	222,066
	Characterisation and Regulation of Chloride Channels in Cardiac and Skeletal Sarcoplasmic Reticulum in Mammals	372,943
	Interactions Between Afferent Channels in Vision: Basic Neurophysiology and Implications for the Pathology of Dyslexia	413,772
	Investigation of Biological Ion Channels: Theoretical Formulation, Computer Simulation and Experimental Verification	1,005,463
	<i>Peter Doherty Fellowship</i>	
	Gene Transfer Technologies	213,624
	Structural & Biochemical Analysis of Soluble Nicotinic Acetylcholine Receptor Extracellular Domains	215,338
	<i>C J Martin Fellowship</i>	
	Structure — Activity Relationships for the Interaction of Gemini Surfactants with Various Cell Lines: Towards Targeted Drug Delivery	227,537
National Heart Foundation of Australia	<i>Grants-In-Aid for Research</i>	
	Anatomical and Functional Variation in the Mesenteric and Iris Arterial Vasculature: Correlation of Myoendothelial Communication and Mechanisms of Endothelium Dependent Relaxation	89,100
National Museum of Australia	Content Developer — Land and People Program	8,115
	Consultancy: Land Rights Exhibition, Gallery of Aboriginal Australia, National Museum of Australia	9,200
	Conference — National Museums: Negotiating Histories	25,000

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National Native Title Tribunal (Commonwealth)	Native Title Agreements and the Corporate Needs of Indigenous communities	21,000
Network Economics Consulting Group Pty Limited	Consultancy: Population Dispersion in Australia and the United States	7,138
News Limited	Consultancy: Research Programme For Improving DTV Receivers	40,000
Novartis Institute for Functional Genomics Inc	Collaborative Program To Identify Mice With Neurological Mutations	800,000
NSW National Parks and Wildlife Service	Consultancy: Monitoring Regime for the Striped Legless Lizard	2,000
	Consultancy: Kiandra Archaeological Project: Preparation of Collections for Archival Storage	5,000
Private Forestry Council Victoria	ANU Forestry Market Report	10,000
Queensland Forestry Research Institute	Exploring the Potential of North East Australian Hardwood Timbers for Innovative Furniture	76,216
Real World Computing Partnership	Vision Guided Navigation Technology	127,000
Rio Tinto Exploration Pty Ltd	Chemistry of Diamond-indicator Chromite, Cr-diopside and Garnet from the Kimberley Region, WA and the Diamond-bearing Potential of Lithospheric Mantle Domains beneath NW Australia	10,500
Rio Tinto Services Ltd	Consultancy: A Socioeconomic Profile of the Aboriginal Population of the SE Arnhem Region	30,000
Rockefeller Foundation	John C Caldwell Chair in Population Health & Development	232,000
Rural Industries Research and Development Corporation	Travel Grant IFOAM Conference Italy	600
	<i>Research and Development Grants</i>	
	ANU Forestry Market Report, 1999-2000	42,100
	Issues, Options and Strategies for Improving Japanese Agricultural Trade Policies	93,000
	<i>Travel/Conference Funding Program</i>	
	Travel Grant to Attend 9th International Near Infrared Spectroscopy Conference	2,775
	<i>Joint Venture Agroforestry Program</i>	
	Inorganic-bonded Wood-composites Manufactured from Mallee Eucalypt and Melaleuca Species	46,157
Sagric International Pty Ltd	<i>Professional Short Courses</i>	
	Philippines — Australia Short Term Training Program (PASTT)	24,906
Schering-Plough Pty Ltd	Consultancy: Remicade (Crohn's Disease) Project	18,000
SMEC International Pty Ltd	Australian Education International (AEI) Scholarship — Taiwan (DETYA)	40,000
	Australian Education International (AEI) Scholarship — Korea (DETYA)	40,000
Snowy Mountains Hydro Electricity Authority	IHACRES Assessment of Island Bend Catchment	15,000
South East NSW Regional Plantation Committee Inc	Private Native Forest Management and Value Added Project	121,400
Southcorp Wines Pty Ltd	Low Night Temperature Inhibition of Subsequent Photosynthetic Assimilation in Grapevines: Understanding the 10 degree Threshold in Cool Climate Vineyards	7,500
Sylvia and Charles Viertel Charitable Foundation	<i>Bursary</i>	
	Masters in Applied Epidemiology (Indigenous Health)	154,000
Taipei Economic and Cultural Office	Consultancy: Civil Service Development Program	53,400
Telstra Corporation Limited	<i>Research & Development Program</i>	
	Improvement Estimates of Resource Requirements for C&C Service	246,023
	<i>Collaborative (Contract) Research & Development</i>	
	TBS Process Improvement	197,944
	Consultancy: The Telstra-ANU Variation Reduction Program	1,926,000

Principal Grants and Donations

The Energy Corporation of New South Wales	<i>NSW Sustainable Energy Research and Development Fund</i>	
	Efficiency Improvements Of Commercial Multicrystalline Solar Cells	256,976
The Ford Foundation	<i>Grants Program</i>	
	Managing Transition in East Timor	55,500
	Staff Training and Development in Anthropology and Sociology	228,000
The Fred Hollows Foundation	<i>Aboriginal Health Funding</i>	
	Nutrition and Health Outcomes Among Jawoyn People	25,000
The Getty	<i>Getty Grant Program</i>	
	The Oxford Companion to Aboriginal Art & Culture	313,000
The Hawthorn Consulting Group	Consultancy: Environmental Economics 2 in Vietnam	33,780
	Consultancy: Environmental Economics 3 Short Course In Hanoi, Vietnam	33,780
	Consultancy: Training of Trainers of Integration of Social Development Policies with Economic Planning in Vietnam	46,460
	Consultancy: Debt Management Workshop in Samoa	46,720
	Consultancy: Policy Seminar On Integration of Social Development Into Economic Planning Course 3 In Vietnam	73,820
The Intel Corporation	Verified Optimisations for the Intel IA-64 Architecture	29,700
The Japan Foundation	<i>Asia Centre Grant Programs</i>	
	Reform and Recovery in East Asia: The Role of the State and Economic Enterprise	15,000
	<i>Visiting Professorship Program for Japanese Studies</i>	
	Asia Pacific Research and Development: Visiting Professorship Program for Japanese Studies	19,256
	<i>The Research/Conference/Seminar Program for Japanese Studies</i>	
	Beyond Japan Inc. — The Transition to Transparency	28,537
The Preparatory Commission For The Comprehensive Nuclear-Test-Ban Treaty Organization	Consultancy: Preparation and Construction of Infrasound Station IS 7 at Warramunga	292,800
	Consultancy: Testing and Evaluation of the Seismic Station PS2, Warramunga	461,250
The Procter & Gamble Company	Ball Milling of Oxide Pigments	10,800
The Sasakawa Peace Foundation	Training of North Koreans on Marketisation in Transitional Economies	20,000
	Policy Research on Economic Reform in Korean Peninsula	55,400
The Sir William Dobell Art Foundation	Exhibition: A Tribute to William Dobell	10,000
The United Nations University	Project on Population Growth, Land Transformation and Environmental Change (PLEC)	70,200
The University of Adelaide	<i>Research Infrastructure Equipment and Facilities Program</i>	
	Australian Key Journals Project: Increasing Access to Australian Research Information	15,000
The World Bank	Consultancy: Indonesian Forest Sector Issues Research	76,900
UK Department for International Development	Consultancy: Himachal Pradesh Senior Officers Tour to Australia	28,500
United Nations Economic & Social Commission for Asia & the Pacific	Consultancy: Non-Tariff Measures and Pacific Island Countries (ESCAP/ITECD Consultancy)	26,900
United Nations Food and Agriculture Organisation	Global Survey and Analytical Framework for Forestry Outgrower Arrangements	15,400
United Nations Office for Project Services	Consultancy: Support To The Pacific Regional Conference On Governance For Parliamentarians	28,800
United States Air Force Office of Scientific Research	Tbit/s Optical Packet Processing using Resonant Soliton Logic Gates	45,900
United States Information Service	US-China Relations Conference	16,200
University Of New South Wales	NHMRC Grant — Intracellular Phosphate as a Determinant of Mammalian Skeletal Muscle Fatigue	27,203

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Vision Abell Pty Ltd	Consultancy: Indigenous Development of Photodector Materials (WP5b)	90,000
Volvo Technological Development AB	<i>Technological Development Project Grants</i>	
	Vision based Human-Machine Interface Project	52,735
Wellcome Trust	<i>Major Equipment Awards for Biomedical Research in Australia</i>	
	Calcium Release from Sarcoplasmic Reticulum and Contraction in Striated Muscle	253,259
Wenner-Gren Foundation for Anthropological Research Inc.	Art and Debates about Identity in Settler-Colonies (Fieldwork)	8,500
	Mobility & Risk Reduction: Investigating Changes in Provisioning Strategies among Aboriginal Hunter-Gatherers in Semi-Arid Australia	27,700
World Bank (via Federation of Korean Industries)	Business Regulatory Reform in Korea: International Benchmarking and Policy Recommendations	130,800
World Health Organization	<i>Special Programme for Research and Training in Tropical Diseases (TDR)</i>	
	Reverse Genetics of <i>Caenorhabditis Elegans</i> to discover New Antifilarial Drugs	22,800
	Reverse Genetics of <i>Caenorhabditis Elegans</i> to validate New Antifilarial Drug Targets	30,800
Sub-total	GRANTS \$5,000 and above	\$48,421,885

Donations

Donor	Purpose	Amount
Al-Ghandi	The Al-Gandhi Lecture on Islamic Civilisation	50,000
Allaway, R	Oxford Australia Fund	5,000
Allen, D C K	Cambridge Commonwealth Fellowships (Australian Appeal)	7,500
Anonymous	Research School of Physical Sciences and Engineering	18,997
Anonymous	E E Tory Endowment Fund	40,000
Anonymous	Study of Optic Nerve and Retina	5,000
ANU Admin & Allied Officers Association	Staff Development Endowment Fund	90,723
Atkinson, W J	CRES Director's Special Purpose Fund	10,000
Australian Agency for International Development	National Thai Studies Centre Conferences and Sales Fund	10,500
Australian Fulbright Association, The	Fulbright Scholarship Fund	17,010
Australian Skeptics Science	The Stromlo Exploratory	10,000
AXA Australia	Cambridge Commonwealth Fellowships (Australian Appeal)	100,000
Biodiscovery Ltd	Professor Peter Doherty Scholarship	84,000
British Council	Oxford Australia Fund	22,000
Buchen-Osmind, C	Research School of Biological Sciences	5,000
Bunyan, P	Paul Bunyan Memorial Scholarship	25,000
Burgmann College	Burgmann College Endowment Bursaries	250,000
Canberra Tradesmen's Union Club	Noel Butlin Archives Centre Endowment Fund	20,000
Consolidated Press Holdings	Cambridge Commonwealth Fellowships (Australian Appeal)	200,000
CRASys Cooperative Research Centre	The CRASys Scholarship and Research Endowment Fund	20,000
Commonwealth Bank	Sir Roland Wilson Foundation	5,000
Dibb, P	Strategic and Defence Studies Centre	20,000
Downing, J	Cambridge Commonwealth Fellowships (Australian Appeal)	7,500
Duffield, J D	Duffield Chair in Astronomy	25,000
Electro Optic Systems Pty Ltd	The Stromlo Exploratory	22,500
Eli Lilly Australian Pty Ltd	National Health Services Centre	7,896
Ergas, H, Network Economics	Canberra School of Arts Project	19,000

Principal Grants and Donations

Fenner, F	Fenner Foundation	25,000
	Fenner Hall Scholarships	10,000
	Frank and Bobbie Fenner Conference	20,000
Ford Foundation, The	Pacific Area Forum on Trade & Development (PAFTAD) Conference Endowment Fund	457,526
Griffin, P M	Fenner Hall	7,500
Harvard Club Of Australia	Robert Gordon Menzies Scholarship Fund	171,645
Heydon, J D	Oxford Australia Fund	22,500
Holdsworth, R	School of Music Opera Production	6,000
ISIS	To Support the Australian National Committee of the Council for Security Co-operation in the Asia-Pacific	18,771
Kopke, P J	Cambridge Commonwealth Fellowships (Australian Appeal)	13,000
Kornfeld, F	Kornfeld Scholarship Fund	20,000
KPMG National Office	Robert Gordon Menzies Scholarship Fund	10,000
Kypriano, T	Paul Thistlewaite Memorial Scholarship	5,000
Lee, Q W	Sir Quo-Wei Lee Scholarships	175,000
Lions NSW ACT Save Sight Foundation	National Health Services Centre	16,666
Liu, U Y T	Alumni Appeal	10,000
McCormack GP & F	General Running Costs and Proceeds of Conferences	12,000
Nm Rothschild & Sons Aust	The Stromlo Exploratory	25,000
Osmond, C B	Bio-Informatics Consultancies.	6,000
Pacific Dunlop	Noel Butlin Archives Centre Endowment Fund	7,000
Paul Dibb & Associates P/L	Strategic and Defence Studies Centre	10,000
Reserve Bank of Australia	Sir Roland Wilson Foundation	15,000
Rowley, F & J M	Oxford Australia Fund	5,000
Santamaria, J G	Oxford Australia Fund	10,000
Sheu, C	Bruce Hall Bursary Fund	10,000
Sun Microsystems	The Stromlo Exploratory	14,245
Tattersalls S Holdings Pty Ltd	The Stromlo Exploratory	17,500
Terrell, R D	Terrell Scholarship Fund	10,000
Thistlewaite, L	Paul Thistlewaite Memorial Scholarship	5,000
University of Chicago	R.S.C. Nterprise Fund	8,922
W P McElhone & Co	Cambridge Commonwealth Fellowships (Australian Appeal)	207,500
Sub-total	DONATIONS \$5,000 and above	\$2,449,401
Sub-total	GRANTS and DONATIONS \$5,000 and above	\$50,871,286
Other	Grants and Donations under \$5,000	\$483,179
TOTAL	The Australian National University Grants and Donations (excluding Grants through ANUTECH Pty Ltd)	\$51,354,465

ANU Public Lecture Series 1999

The 1999 Birch Lecture

Professor Hubert Schmidbaur
Gold Chemistry
February 11

DA Brown Medal Lecture

Jill Banfield
March 10

Dr Robert Williams
The Hubble Space Telescope
March 17

The 1999 Mulvaney Lecture

Professor Jim Allen
March 24

The 1999 Science Forum

Douglas Adams, Peter Garrett et al
May 7

The 1999 Robert Shuman Lecture

Alexander Downer
Australia and the New Europe
May 13

The 1999 Jack Westoby Lecture

Jim Douglas, Forests Adviser, World Bank,
Washington.
Tropical Forests: do we really want them?
May 20

The Third Freilich Lecture

David Marr
Bigotry in Australia Today
May 25

The 1999 Narayanan Oration

Mr P Chidambaram
June 1

Martha Nussbaum
Feminist Internationalism: In Defense of Universal Values
June 11

Daryl Williams
The Republic Referendum
June 29

Dr Hanan Ashrawi
The Middle East Peace Process
July 6

Professor Richard Rorty
Analytic Philosophy and Transformative Philosophy: The Relation of Philosophy to the Humanities
July 9

Professor David Lowenthal
A National Museum's Saga
July 13

Senator Aden Ridgeway
Reconciliation and the Future
July 16

The 1999 Morrison Lecture

Professor Tim Barrett
August 9

Professor Alan Shapiro
The Art of Democracy in Classical Athens
August 17

Professor Giuliano Amato
Europe and Globalisation
August 24

Wei Jingsheng
Human Rights and Democratisation in China
August 31

The 1999 Sawyer Lecture (international and public law)

Elizabeth Evatt
September 1

Fox, Simpson and Hunt
Treasures of Great Libraries
September 6

Professor Jack Dongarra
High Performance Computing
September 20

The 1999 Sir William Dobell Memorial Lecture

Professor Passmore
September 24

The 1999 HC (Nugget) Coombs North Australia Lecture

Ms Jacqui Katona
September 29

Professor Henry Reynolds
Sovereignty, Indigenous Australia and Human Rights
October 6, 13, 20, 27

The 1999 Pacific Lecture
Professor R Gerard Ward
October 12

The 1999 Jack Smart Lecture
Professor Frank Jackson
October 15

Jack Beale Water Resources Lecture
Professor Russell Mein
October 19

The 1999 Annual Canberra School of Art Lecture
Geoffrey Edwards
Temples, Towers and Houses of Glass
October 22

John Simpson
English or Englishes: the role of English in post-colonial societies
October 28

The Anthony Forge Memorial Lecture
Dr Diane Losche
November 18

McKinley/George
Where to for Australian Foreign Policy?
November 18

Mark O'Connor
Allure of Archaeology
November 18

Professor Charles Stirling, FRS
Why Should the Public Bother to Appreciate Science?
November 23

Freedom of Information Act 1982 Statement

This statement has been prepared in compliance with section 8 of the *Freedom of Information Act 1982* and is correct to 31 December 1999.

1. Functions of the University's decision-making Council and Boards are as follows:

Council

In accordance with section 8 of the *Australian National University Act 1991*, the Council is the governing authority of the University. Section 9 of the Act provides that, subject to this Act and the Statutes, the Council has the entire control and management of the University and is to act in all matters concerning the University in such manner as appears to be best calculated to promote the interests of the University.

The membership of the Council is set out in section 10 of the Act. It is chaired by the Chancellor and comprises 22 members which include elected officers of the University and other *ex-officio* members, representatives of both Houses of Parliament, persons appointed by the Governor-General, persons appointed by the Chief Minister of the ACT, representatives of various groups of the University's academic staff, representatives of the general staff, graduate and undergraduate students as well as Convocation, and one other person at the discretion of Council.

Committees of the Council

Council is assisted by the following committees:

- ◆ The Standing Committee considers any matter relating to the University referred to it by the Council or, if Council is not sitting, transacts the business of the University except for matters solely within the competence of the Council.
- ◆ The Finance Committee makes recommendations and decisions concerning financial and accounting matters of the University.
- ◆ Other continuing committees of Council are the Audit Committee, Buildings and Grounds Committee, Committee Against Sexual Harassment, Committee on Conditions and

Appointment of the Vice-Chancellor and Deputy Vice-Chancellors, Emergency Appointment (Vice-Chancellor) Committee and the General Services Fee Committee.

Board of the Institute of Advanced Studies

The Board is responsible under the Council for all academic matters relating to the Institute, and may advise the Council on any matter relating to education, learning or research or the academic work of the University.

The Board of the Institute of Advanced Studies comprises a chairperson appointed by the Council from among the professors in the Institute (who is also Director of the Institute of Advanced Studies), the Vice-Chancellor, the Deputy Vice-Chancellor, the Pro Vice-Chancellor (Academic), the head of each research school and centre in the IAS, three members of academic staff from each research school chosen by the respective faculty or faculty board, the Chairperson of the Board of The Faculties, the President, Postgraduate and Research Students' Association Inc., one other postgraduate graduate, and such other persons as the Council appoints. The Institute of Advanced Studies comprises The John Curtin School of Medical Research and the Research Schools of Astronomy and Astrophysics, Biological Sciences, Chemistry, Earth Sciences, Information Sciences and Engineering, Pacific and Asian Studies, Physical Sciences and Engineering, and Social Sciences. It incorporates the Centre for Resource and Environmental Studies and the School of Mathematical Sciences (IAS component) and a number of mainly multidisciplinary academic centres.

The Board is assisted by the following committees:

- ◆ Committee on General Policy
- ◆ Promotions Committee
- ◆ IAS Planning Advisory Committee

Board of The Faculties

The Board, subject to the Statutes, is responsible under the Council for all academic matters relating to The Faculties, and may advise the Council on any matter relating to education, learning or research or the academic work of the University.

The Board of The Faculties comprises a chairperson appointed by the Council from among the professors in The Faculties, the Vice-Chancellor, the Deputy Vice-Chancellor, the Pro Vice-Chancellor (Academic), the Dean of each faculty, the Dean of Students, the President of The Australian National University Students' Association, the Chairperson of the Board of the Institute of Advanced Studies and one other member of the IAS, the Chairperson of the Board of the Institute of the Arts, the Director, School of Art, the Director, School of Music, the heads of departments and divisions, the heads of centres in the Faculty of Asian Studies, three professors of law, other representatives of academic staff and students, and such other persons as the Council appoints from time to time. The Faculties offer undergraduate and graduate courses in arts, Asian studies, economics and commerce, engineering and information technology, law, science, art and music.

The Board is assisted by the following committees:

- ◆ Steering Committee of the Board of The Faculties
- ◆ Academic Performance Appeals Committee
- ◆ Admissions Committee
- ◆ Faculties Research Grants Committee
- ◆ Postgraduate Scholarships Committee
- ◆ Promotions Committee
- ◆ Standing Committee of Tenure Committee
- ◆ The Faculties' Planning Group
- ◆ Committee on Consultation
- ◆ Research Management Committee
- ◆ Tertiary Degrees Delegation Committee

Honorary Degrees Delegation Committee

Joint Committees of the Academic Boards

The two academic Boards have the following joint committees:

- ◆ Graduate Degrees Committee
- ◆ Joint Committee of the Academic Boards
- ◆ Joint Committee on Postgraduate Awards
- ◆ University Awards Committee
- ◆ Board of Management, Centre for Continuing Education

University Schools and Centres

The University has established a number of schools or other academic organisational structures which include bodies, or members of staff, from the IAS and The Faculties, or, in some other way, draw their resources from the IAS and The Faculties. These comprise the Asia Pacific School of Economics and Management (APSEM), School of Mathematical Sciences (SMS), Centre for Cross Cultural Research (CCCR), Humanities Research Centre (HRC), National Centre for Epidemiology and Population Health (NCEPH), Centre for Educational Development and Academic Methods (CEDAM), Centre for Mental Health Research (CMHR) and the Centre for Aboriginal Economic Policy Research (CAEPR). Each is represented on one or both of the Board of the Institute of Advanced Studies and/or the Board of The Faculties.

2. The functions of the University's Statutory Officers are as follows:

Chancellor

The Chancellor presides at all meetings of Council and on all ceremonial occasions when available to do so. The Chancellor and the Vice-Chancellor sign the *Annual Report* of the University to the Governor-General.

Pro-Chancellor

The Pro-Chancellor chairs meetings of the Standing Committee and, in the absence of the Chancellor, presides at meetings of the Council and on ceremonial occasions.

Vice-Chancellor

The Vice-Chancellor is the Chief Executive Officer of the University and has such powers and duties as the Statutes prescribe or, subject to the Statutes as the Council determines. The Vice-Chancellor's role is to control and manage the affairs and concerns of the University including the control and management of real and personal property vested in or acquired by the University. The Vice-Chancellor has, and may exercise, such powers as are necessary or desirable to discharge those duties. The Vice-Chancellor also represents and acts for the University in its relations with the Commonwealth Government and other bodies.

Deputy Vice-Chancellor

The Deputy Vice-Chancellor generally assists in all aspects of the Vice-Chancellor's work, but in particular leads the management of the University's research, teaching and outreach activities and oversees the resource (financial and staffing) management and control of the University and deputises for the Vice-Chancellor in that officer's absence.

3. Powers of the University

The University's powers are based on the *Australian National University Act 1991*. Under this legislation the University has made statutes, rules and orders.

Statutes

Council has made [31] statutes under section 27(1) which are valid at present —

Board of The Faculties Statute
Board of the Institute of Advanced Studies Statute
Chancellorship Statute
Convocation Statute
Courses and Degrees Statute
Default Certificate Statute
Deputy Vice-Chancellorship Statute
Discipline Statute
Faculties and Faculty Boards (Institute of Advanced Studies) Statute
Faculties (The Faculties) Statute
Fees Statute
Information Technology Services Statute
Institute of the Arts Statute
Institute of the Arts Liquor Statute
Interpretation Statute
Halls of Residence Statute
Library Statute
Liquor (Affiliated Colleges) Statute
Liquor (Halls of Residence and University Union) Statute
Liquor (University Arts Centre) Statute
Liquor (University House) Statute
Membership of the Council Statute
Parking and Traffic Statute

Pro-Chancellorship Statute
Residential Colleges (Affiliation) Statute
Staff Superannuation Statute
Superannuation Funds (Investment and Management) Statute
The Australian National University Endowment for Excellence Statute
University House Statute
University Seal Statute
Vice-Chancellorship Statute

Institute of the Arts Statutes preserved under section 57 —

Fees Statute
Interpretation Statute
Library Statute

Rules

Rules have been made under the above statutes relating to admission, examinations, fees, discipline, courses and degrees, courses of study, student academic performance, University House, halls of residence, affiliated colleges, membership of Council, the Library, and faculties and faculty boards.

Orders

Orders have been made under the above statutes relating to bachelor degrees, professional training in law, research schools, University House discipline, the Library, liquor, and Fee paying overseas students fees.

4. Documents or publications produced by the University

Documents available for purchase by the public or otherwise accessible in terms of the *Freedom of Information Act 1982* are —

Council statutes, rules and orders
Annual Report of the ANU to Parliament
Annual reports of schools, faculties, centres and units to the Council
Undergraduate Handbook
Graduate School Handbook
Institute of the Arts Handbook

Institute of the Arts Prospectus
Undergraduate Prospectus
Purchasing Policy and Procedures
Finance and Business Manual (electronic version only)
Ionizing Radiation Safety Folder
Occupational Health and Safety Unit Information

Documents which are customarily made available to the public otherwise than under the *Freedom of Information Act 1982*, free of charge upon request, are the *ANU Reporter*, *National Graduate*, information pamphlets and booklets on courses and academic requirements in various disciplines, leaflets on academic appointments in the Institute of Advanced Studies and in The Faculties, Library Guides, and an accommodation brochure.

Internal working documents include internal user manuals, Financial Authorisations, Personnel and Payroll (General) Manuals and other policy and procedural documents.

Facilities for access

Limited facilities for the perusal of documents applicable to individual areas are available at the Staffing Services Branch of the Human Resources Division and/or Student Administration and Support Services.

FOI procedures and initial contact points

Applications for access to documents under the *Freedom of Information Act 1982* should be lodged in writing with the University Legal Office. Applications should include the application fee or a request for its remission, an address to which notices may be sent and, to facilitate contact with the applicant, a telephone number effective during normal business hours. Properly lodged applications for access to documents will be acknowledged and a decision notified to the applicant as quickly as possible.

Inquiries regarding freedom of information and access to documents may be made at —

University Legal Office
Chancelry, Building No. 10
East Road
The Australian National University
ACT 0200
Tel: (02) 6279 8489

Financial Statements

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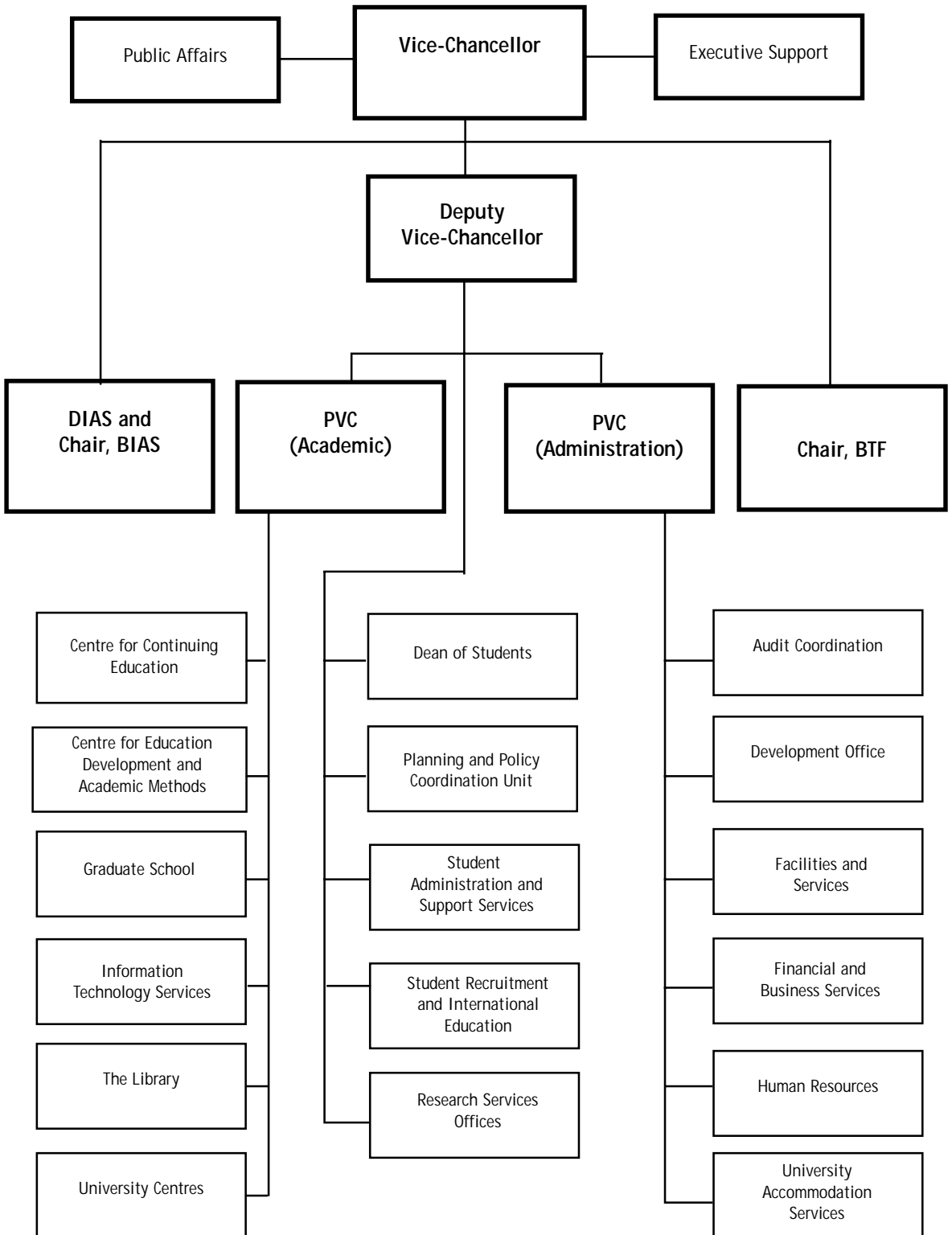
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University Academic Structure

