

University of  
South Australia

## Annual Report 2001

Educating professionals  
Creating and applying knowledge  
Serving the community



University of  
South Australia

## Strategic direction

### Mission

To advance, disseminate and preserve knowledge through the provision of a teaching, learning and research environment which fosters excellence in scholarship, innovation and social responsibility.

## Strategic intent

### Together we:

value quality, diversity, sustainability and equality

create, apply and communicate knowledge which delivers economic and social benefits through action that is:

- intelligent in its use of new and emerging technologies
- innovative, collaborative and enterprising
- flexible, international and industry focused
- student-centred, service oriented and multidisciplinary
- built upon our strengths.

## UniSA 2005

### In 2005 UniSA will:

- be a leader in creating and applying knowledge and an innovator in blending online and campus-based learning
- be a distinctive, internationally competitive institution in a global market for students and research contracts
- be an institution with an internal culture which embraces change and is recognised for education and research undertaken in collaboration with industry and the professions
- have students and staff learning and working in an environment which reflects the University's commitment to quality, diversity, sustainability and equality and the creation, application and communication of knowledge which delivers economic and social benefits
- be based in South Australia, but will conduct research and teaching in many countries through the innovative use of e-learning and e-business
- have increasing numbers of students living and studying interstate and overseas
- experience a major increase in income derived from commercialisation of intellectual property through its distinctive approach to research.

## Graduate qualities

### Our graduates:

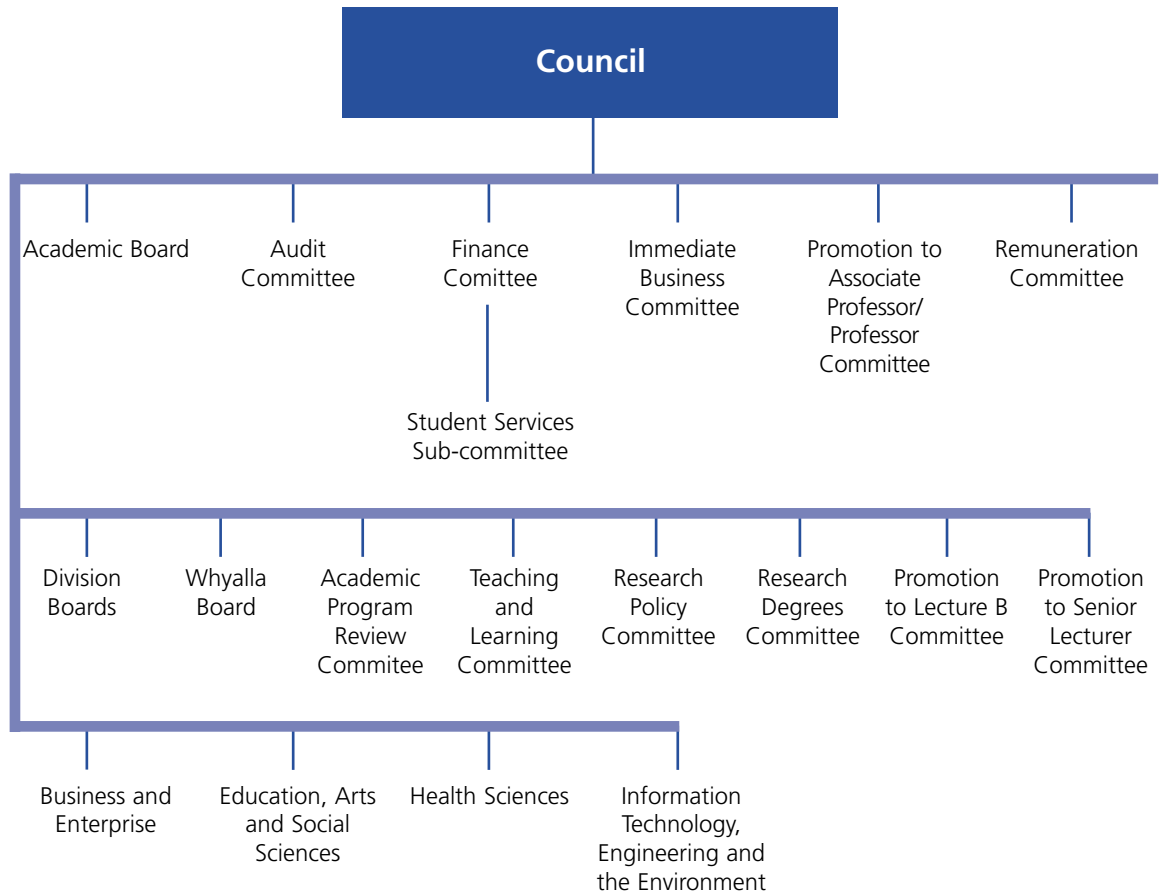
- operate effectively with and upon a body of knowledge of sufficient depth to begin professional practice
- are prepared for lifelong learning in pursuit of personal development and excellence in professional practice
- are effective problem solvers, capable of applying logical, critical and creative thinking to a range of problems
- can work both autonomously and collaboratively as professionals
- are committed to ethical action and social responsibility as professionals and as citizens
- communicate effectively in professional practice and as members of the community
- demonstrate international perspectives as professionals and as citizens.



## Contents

University of South Australia Council	5
Chancellor's report	6
Vice Chancellor and President's report	8
Senior Management Group	9
University structure (as at December 2001)	10
University priorities	11
Business and Enterprise	12
Education, Arts and Social Sciences	14
Health Sciences	16
Information Technology, Engineering and the Environment	19
Whyalla Campus	20
Collaboration with industry, the professions and the community	22
Community service	24
Research	28
Research grants	30
International	32
Teaching and learning	33
Equity	36
Organisational culture	37
Resources	39
Awards and achievements	40
Financial statements	44
University of South Australia in brief 2001	49

## Committees of Council and Sub-Committee Structure



### Established by Council

Academic Staff Appeals Committee  
 General Staff Appeals Committee  
 Student Assessment Appeals Committee  
 Penalty Appeals Committee  
 Misconduct Appeals Committee  
 Joint Consultative Committee

### Other entities associated with the University

UniSA Foundation Inc  
 ITEK Pty Ltd

## University of South Australia Council

The Council is the governing body of the University and its principal responsibilities include overseeing the management and development of the University, devising or approving strategic plans and major policies and monitoring and reviewing University operations.

The University of South Australia Council met seven times from March to December 2001.

## Council Members 2001

### Chancellor

David Klingberg  
BTech (CivilEng), FTSE, FIEAust, FAusIMM, FAICD

### Deputy Chancellor

Dagmar Egen, AM, FACS, AIMM, MAICD

### Appointed Members

Dr Patricia Crook AO  
Joy Gilbertson, BHLthAdmin, Mbus  
Virginia Hickey, BA, LLB  
Jan Lowe, BA, DipEd  
Greg Mackie, BA  
Alice McCleary, BEc, FTIA, FAICD  
Ian McLachlan, BEc, FICAA  
Shirley Peisley AM  
Peter Smith, BEc, BAeroEng, FRIBA, FlnsAA  
Geoffrey J Spring, TCC, BA, MEd, FACE, FAIM, FACEID

### Student Representatives

John Olenich (retired October 2001)  
Gabrielle Hummel (appointed October 2001)  
Matthew Dyki

### Elected Academic Staff

Associate Professor Kazem Abhary, BSci, MSci  
Dr Michael Venning, BSc(Hons), DipT, PhD

### Elected General Staff

Dr Anna Ciccarelli, BA, DipEd, GradDipTESOL, MEd(Admin Management), DEd  
Margaret Strathearn, CertCommArt, AssDip (Project Management)

### Ex Officio

#### Vice Chancellor and President

Professor Denise Bradley AO, BA, DipEd, GradDipLib, MSocAdmin, FACE

#### President of University of South Australia Students Association

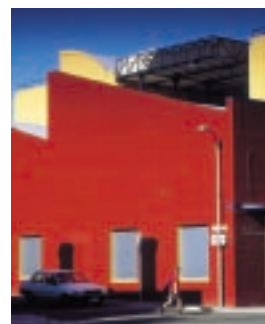
Gemma Noone

#### Chair of Academic Board

Professor Claire Woods, BA(Hons), DipT, EdM, PhD, FRSA

#### Council Executive Officer

Mary Taylor, JP



## Chancellor's report

The University celebrated its Tenth Anniversary in 2001. The milestone enabled us to acknowledge those aspects of the institution which make it unique and successful - enterprising staff; student-centred approaches; success in collaboration; a distinctive research profile; and online, off-shore and distance education programs.

In ten years, UniSA has established itself as an innovative and collaborative University. The mission of equity and social responsibility enshrined in the enabling legislation has become part of the culture of the institution. And UniSA graduates – nearly 60 000 since 1991, continue to make their mark nationally and globally.

The University experienced another successful year in 2001. The consolidated surplus of \$6.9m on revenues of \$254m exceeded projected expectations and resulted substantially from increases in overseas student revenues. This surplus is satisfactory given comparisons with other Universities and the need to generate funds for investment in the future.

2001 saw UniSA become the largest provider of offshore education in Australia and the fifth largest provider of education to international students among all Australian universities. The University won two state awards in recognition of our success in building these international links - the South Australian Export Award for Education and our Hawke Centre won the SA Great Award for Education.

Almost 14 000 Australian and international students commenced with the University in 2001, while over 6000 graduated. More than half of these graduates attended a series of successful onshore and offshore graduation ceremonies held throughout the year.

The year 2001 also saw UniSA's distinctive research profile enhanced by several significant achievements in research and research training. UniSA gained key partnering roles in two new Cooperative Research Centres and ranked first in the State of South Australia for new projects (2002-2004) under the Australian Research Council's Linkage Project.

The University continued to perform well in diversifying its revenue base through the commercialisation of intellectual property. ITEK Pty Ltd, the university's business creator and incubator, continued to provide management support and investment partnering to eligible start-ups and established companies from all industry sectors.

Progress was made on the University's capital investment program announced last year, *Blueprint 2005*. The \$100m investment in our campuses will improve amenities and facilities, will generate an improved environment for on-campus students of the university whilst reducing floor space by 20 000 square metres. This rationalisation will lead to a substantial reduction in the annual costs of maintaining and operating the remaining property assets of the university.

Over the next twelve months the University will prepare campus master plans and building designs for significant changes on three of the metropolitan campuses: City West, City East and Mawson Lakes. Principal and sub-consultant teams have been engaged for the major projects and the consultation process has commenced. Construction of all major projects will begin in early 2003.

The University's student administration improvement project, *Medici*, approved by Council and launched in 2000, was implemented in 2001. While not without its minor problems, overall the implementation was successful. A formal evaluation will take place in 2002 to allow improved performance for the next enrolment period.

The annual review of Council's governance and operations was conducted by a working group on behalf of Council. The group concluded that the goals established for 2000 had been achieved and the Council's overall performance was satisfactory.

In June, the University hosted the Tenth Birthday Council Dinner at Ayers House. The two longest serving members of Council – Jan Lowe and Dagmar Egen AM each received formal acknowledgement and a presentation for their contribution to the University and its predecessor institutions.

The University's scholarships campaign continued throughout 2001. To date, \$280 000 has been raised, including eight named scholarships. The Unifund Committee, chaired by Chris Michelmore from Connell Wagner, played a pivotal role in raising these funds and I congratulate them on their success.



In 2001, 19 inaugural Transition Grants were awarded to financially disadvantaged students, with the health sciences grants being generously provided by Mutual Community.

The focus for the annual fundraising appeal activity in 2001 was the Library Bookplate Appeal, with more than \$70 000 raised. The Development Board held another Chancellor's Golf Challenge in 2001. 128 corporate industry representatives attended and approximately \$15 000 was raised for the Appeal.

Two new funds were created in 2001: The Sansom Trust, established to foster and develop the practice of pharmacy, and the Lewis Barrett AO OBE Prize for the best academic performance in Income Tax Law and Auditing. The Sansom Advisory Committee is chaired by Mr Colin Johns OAM and has raised over \$100 000 to date.

The University's contribution to community groups through collaboration with external partners was highlighted through the 2001 Chancellor Awards for Community Service nominations. The selection committee chose seven winners and for the first time, also awarded certificates of 'Special Commendation'.

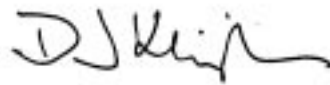
A number of significant appointments were made in 2001. The University welcomed Paul Beard and Mark Hender to the senior management team and farewellled Professor Eleanor Ramsay. In recognition of her contribution to the University, particularly in her role as Pro Vice Chancellor and Vice President: Equity and Development, the Council approved the awarding of the honorary title of Doctor of the University to Professor Ramsay in 2002. Professor David Wilkinson was appointed as Professor Ruth Grant's replacement, a role he will begin following Ruth's retirement in July 2002.

During 2001, Council farewellled John Olenich and welcomed Gabriel Hummel, Matthew Dyki, Associate Professor Kazem Abhary and Margaret Strathearn.

At the end of 2001, Dagmar Egen retired as Deputy Chancellor of the University. Dagmar was appointed Deputy Chancellor in 1992 and deputised for the inaugural Chancellor, John McDonald, for Dr Basil Hetzel and for me on many occasions. I would like to sincerely thank her for all she has contributed to the University of South Australia and wish her all the very best for the future. The Council, indeed the University, will not quite be the same place without her.

Alice McCleary was appointed the new Deputy Chancellor of the University. My sincere thanks must go to Alice for accepting the position and for carrying out the role of presiding officer of the Finance Committee in 2001. My thanks also go to Dagmar Egen, presiding officer of Audit Committee; Jan Lowe, presiding officer of Senior Academic Promotions Committee and Student Appeals Committee; Professor Claire Woods, presiding officer of Academic Board; Peter Smith, member of the Board of ITEK Pty Ltd; and to all members of Council in 2001 for their commitment and expertise.

On behalf of the Council, I congratulate and thank Professor Denise Bradley AO, Vice Chancellor and President, and the University's Senior Management Group for their leadership during another very successful year for the University of South Australia. I would also like to extend my thanks to all staff at the university for their ongoing enthusiasm and energy - for helping to make UniSA a very exciting place to work.



**David Klingberg**  
Chancellor



## Vice Chancellor and President's report

2001 marked the Tenth Anniversary of the establishment of the University of South Australia. The Anniversary and the events held in 2001 enabled all those associated with UniSA to celebrate and reflect on those qualities which set our institution apart, contribute to our achievements and make us distinctive and successful.

UniSA is a major asset to South Australia and an institution making a positive difference to our 30 000 current students, our nearly 60 000 graduates and all the partners with whom we work in our extended community.

UniSA's first ten years were shaped by significant changes in the external environment. Increased competition, reduced spending by government on higher education, internationalisation of our focus and programs, globalisation and collaborations have meant that to succeed, UniSA has had to be innovative and responsive.

Over the last few years we have consolidated our efforts in a number of areas - with pleasing outcomes. We have restructured our academic divisions and coordinating portfolios and worked actively to shape our program profile, manage our research activities, and develop strategic partnerships.

2001 was another good year for UniSA. We saw the results of our efforts to increase revenue and contain costs - revenue exceeded budget projections and consolidated profit was \$6.9 million. This robust financial performance was matched by improvements in graduate satisfaction with teaching and in research performance.

Innovative responses to the challenges of the new environment for higher education were legion. The formal report of the annual meeting between the representatives of Commonwealth and the University's senior management in 2001 records that the Commonwealth representatives identified UniSA as "a pacesetting institution".

We can demonstrate that we are a flexible, responsive and innovative organisation in every aspect of our operations. Some of our achievements in 2001 included:

- Internationalisation of the university proceeded more rapidly than we had predicted - 25% of our students are now citizens of other countries
- we met our 2005 target for involvement in Cooperative Research Centres (CRC) four years ahead of schedule
- we are the first Australian university to have a partnership with TMP Worldwide to provide an international online careers service for graduates- Experiencebank
- the number of new students entering through our access program, USANET, increased to over 500
- 99% of our clients for research and consultancy services reported they would recommend the university to others
- Learning Connection has made student support available online 24 hours a day
- our International Office was restructured to provide strategic oversight of all aspects of our international activities, and
- we implemented a new student administration system which allowed 70% of continuing students and 40% of new students to enrol off campus at the beginning of 2002.

We are confident the quality of management within the university is better than ever before. Budgets are controlled, collaboration across areas to meet university-wide objectives is evident on all sides and new ways of structuring work are being explored and implemented throughout the University. Managers, both academic and administrative, recognise flexibility, cooperation and the innovative use of new technologies will help them to meet our shared objectives.

The University has increased its focus on collaborative work with industry, government and the community through the appointment of Mark Hender to the new senior management position of Executive Director and Vice President: Business Development late in the year. This has increased our capacity for strategic business planning, strategic alliance development and for growing our commercial income.





Progress was made on the University's ambitious capital plan, Blueprint 2005, launched last year. Over the next few years, the University plans to invest an additional \$100 million in building projects to ensure we continue to provide educational leadership in South Australia, and a quality educational experience for our students into the future. In 2001, high usage teaching facilities were refurbished, additional 'computer barns' were established and 'Walk Up computers' were installed across all campuses.

The University's contribution to public and cultural life continued in 2001 through an active program of free public lectures, exhibitions and events - the highlights of which are outlined in the 'Organisational culture' segment of this report. The celebration of the University's Tenth Birthday was an ongoing theme throughout the year and on several occasions was celebrated in collaboration with Centenary of Federation festivities.

The achievements in 2001, outlined in detail in this report, demonstrate UniSA continues to make a significant contribution to educating professionals, creating and applying knowledge, serving the community and to developing the local and national economy.

UniSA will embrace the next ten years with the vigour of the first ten. Our University will always seek to be perceived as youthful - in so far as youth is synonymous with being modern, progressive, flexible and forward-thinking.



**Professor Denise Bradley AO**  
Vice Chancellor and President

## Senior Management Group

(as at December 2001)

### Vice Chancellor and President

Professor Denise Bradley AO  
BA, DipEd, GradDipLib, MSocAdmin, FACE

### Pro Vice Chancellor and Vice President: Access and Learning Support

Professor Kym Adey  
DipT, BA, DipEd, MEd, PhD, FACE

### Executive Director and Vice President: Business Development

Mark Hender (appointed December 2001)  
BEng(Hons), MPhil(Oxford)

### Pro Vice Chancellor and Vice President: Equity and Development

Professor Eleanor Ramsay (retired December 2001)  
BA(Hons), DipEd, MA(Soc)

### Executive Director and Vice President: Finance and Resources

Paul Beard (appointed March 2001)  
BA (Accountancy)

### Pro Vice Chancellor and Vice President: Research and International

Professor Ian Davey  
BA(Hons), DipEd, MA, PhD

### Pro Vice Chancellor and Vice President: Business and Enterprise

Professor Kevin O'Brien  
BEC(Hons), MSc(Econ), FCPA

### Pro Vice Chancellor and Vice President: Education, Arts and Social Sciences

Professor Michael Rowan  
BA(Hons), DipEd, PhD

### Pro Vice Chancellor and Vice President: Health Sciences

Professor Ruth Grant  
DipPhysio, BPT, GradDipAdvManipTher(Hons),  
MAppSc

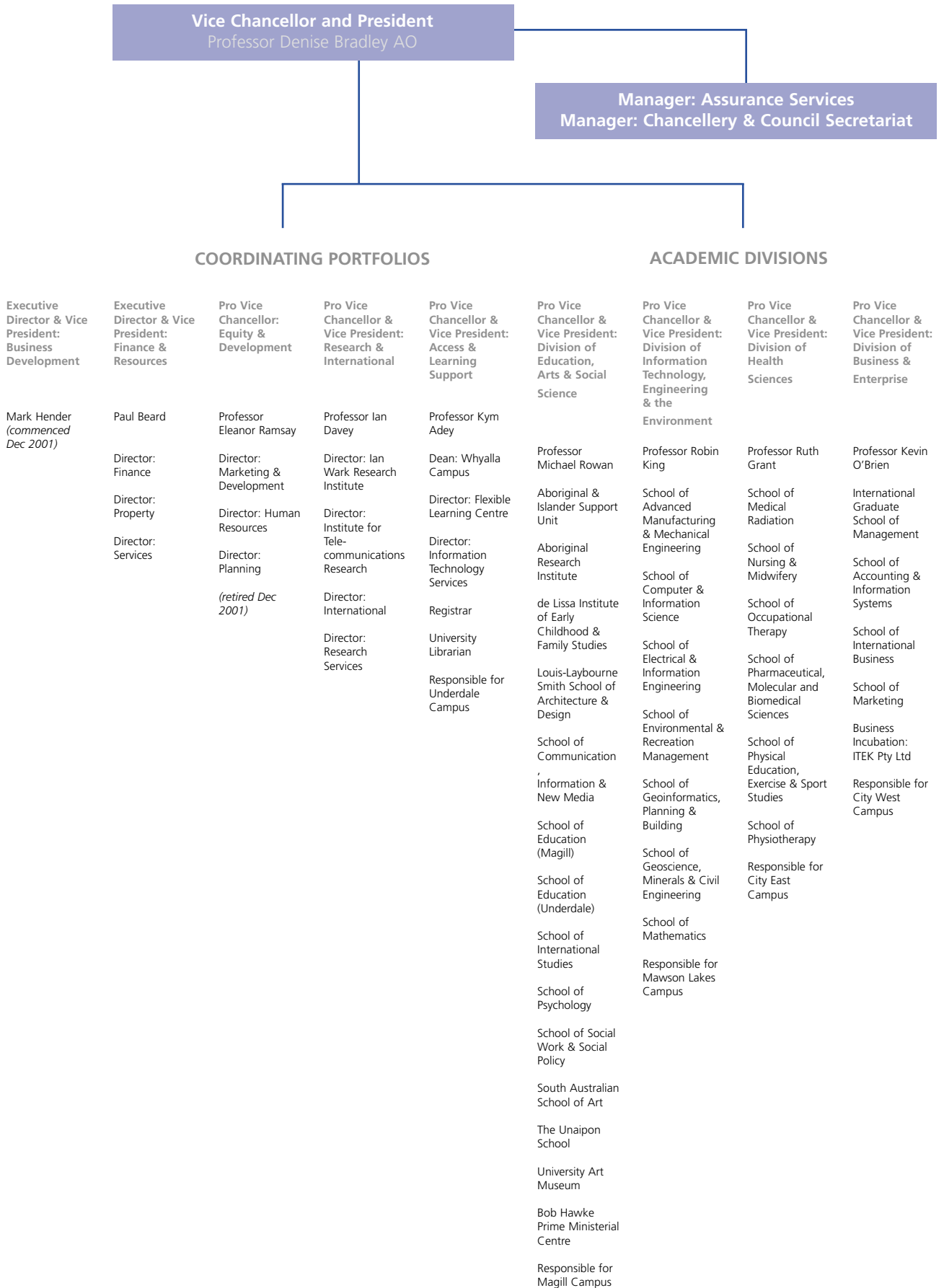
### Pro Vice Chancellor and Vice President: Information Technology, Engineering and the Environment

Professor Robin King  
BEng, PhD, FIEAust, FIREE



# University structure

(as at December 2001)



## University priorities

The corporate priorities for 2001 were designed to shape the development of the University as an internationally competitive, distinctive institution in a global market place. These priorities were:

- integration of e-learning and e-business approaches
- improving and rationalising physical resources
- increasing income from commercialisation of intellectual property.

### Intergration of e-Learning and e-Business approaches

The University's online activities and presence have been strengthened by making significant advances with online course, program and student support initiatives.

Initiatives have included:

- the rapid growth of the University's online teaching and learning environment, based on UniSAnet (almost 1 700 courses are now offered online and all students can access online administrative and student support resources for every course)
- a comprehensive set of student support services made available online through the Learning Connection website and on a CD-ROM (Get Connected)
- products developed by the Flexible Learning Centre (FLC) and the Information Technology Service Unit (ITSU), including: LookUp - a personalised and customisable student portal; AssignIT - an assignment submission, tracking, receipting, returning tool; Course Evaluation Instrument - a tool that produces student course evaluation questions, publishes questionnaires to course home pages and collates and displays results; Student Evaluation of Teaching Instrument - a tool that enables student feedback on teaching performance; TellUs - a tool designed to assist staff and students in carrying out surveys and analysing their results; transcript2 - a tool enabling students to record their learning and life achievements against the seven graduate qualities; and Experiencebank - a global online careers service developed in partnership with TMP Worldwide
- the Library's investment in virtual library services which have provided important support for online learning
- a substantial increase in students' access to information technology hardware and software through the expansion of the number of computers on campus and the further development of 'computer barns'.

These initiatives have created a total online environment capable of meeting the needs of any number of students in any program. The University has been cited internationally as one of the most impressive online student support sites in the world with all services available 24 hours a day, 7 days a week, anywhere in the world.

The implementation of Medici, the new student information system, and of new student and academic administration business processes, including the introduction of online enrolment, have been significant developments which will result in increased efficiencies and better services for students and staff.

In these, and other ways, the University has consolidated its position as a national leader in innovative approaches to teaching and learning.

### Improving and rationalising physical resources

Implementation of Blueprint 2005 commenced during 2001. Building on a comprehensive assessment of longer term needs, the University has developed a strategic asset plan which articulates a blueprint for the future of our property assets focusing on consolidation, an improved teaching and learning environment, efficiency and strategic repositioning of the property portfolio. This blueprint outlines initiatives for substantial campus reconfiguration and development to support UniSA in achieving our vision for teaching, research and services by 2005.

Achievements in 2001 included the:

- implementation of a campus advisory group to determine campus priorities for improvement with a range of initiatives undertaken during 2001
- implementation of a program of refurbishing teaching spaces and campus environments, with more than 75% of all teaching spaces completed in 2001
- continuation of an accelerated program of replacement of audiovisual equipment in general teaching spaces and refurbishment of the remaining lecture theatres and tutorial rooms
- improvement of campus environments through the renovation of the cafeteria at Mawson Lakes, the creation of more formal and informal study and recreational areas for students and the establishment of new computer facilities
- implementation of strategies to improve space utilisation.



### Increasing income from commercialisation of intellectual property

The University's research performance continued to grow in an increasingly competitive environment.

Recent government initiatives placed greater focus on research outputs (research degree completions and publications) and commercialisation of research. Successful commercialisation and innovation strategies have been central to the priorities of the University. The University has implemented a number of changes to build on its record of achievement and to increase its capacity to deliver in this area.

Achievements in 2001 included the:

- appointment of an Executive Director and Vice President: Business Development as a member of the Senior Management Group
- establishment of an Intellectual Property Assessment and Advisory Group
- development of a commercialisation strategy
- improvement of the licensing agreement recording process and the identification of intellectual property
- introduction of new performance indicators and measures for capturing intellectual property and innovative practice
- adoption of a new Activities Policy which clarifies procedures and supports greater consultancy through incentives
- introduction of the Vice Chancellor's Award for Innovation to promote innovative activities (the inaugural awards ceremony was held in November 2001).

## Business and Enterprise

### Priorities

The Division's priorities in 2001 were to:

- appoint senior academics to strengthen leadership in teaching and research
- appoint academic staff to bring offshore teaching into workload and to support onshore teaching and research
- build further links with the business community through improved research and education relationships and involvement in events such as International Business Week
- develop more effective organisational and financial support structures for the Division's rapidly expanding offshore teaching activities
- develop a project to redefine the workplace culture of the Division.

### Teaching and learning

The Dean Teaching and Learning, Associate Professor Vicki Feast, presented a workshop on the Graduate Quality Framework to academic staff at the University of Cape Town.

John Medlin, Rob McPherson, Rowena Holloway and Ken Adams were nominated as exemplary teachers of large courses as part of a project funded by the Australian Universities Teaching Committee.

The Division continued to work closely with the Unaipon School to foster teaching and research links with the University's Aboriginal and Torres Strait Islander community.

The Division participated in an Australian Universities Teaching Committee research project on Business Undergraduate Education.

The Master of Business (Accountancy) was accredited by CPA Australia, which found the new program to be 'creative and highly innovative'. New Masters programs offered by the School have exceeded all expectations with nearly 250 students currently enrolled.



The Graduate Diploma in Property and the Master of Business (Property) were accredited by the Australian Property Institute. They were impressed by the high standard of the programs and the excellence of staff.

The Wine Marketing Research Group will be offering Wine Marketing as part of a MBA in wine recently launched by the Ecole Supérieure de Commerce de Bordeaux.

The Division was deeply saddened by the unexpected deaths of Professor Lindsay Barker and David Ali. They were held in great affection by their many colleagues, students and friends.

#### **Research and research education**

Researchers in the Division earned 99.36 DETYA publication points for publications in 2000.

Researchers in the School of Marketing earned 2.78 publication points per full time equivalent (FTE) academic staff.

33 researchers (compared to 24 in 1999) published in refereed journals in 2000.

Divisional candidates successfully completed 23 research degrees in 2000.

Over \$1.95m in research income was earned in 2001, 70% of which was funded through partnerships with industry, government and other organisations. The Division earned \$1.2m from consultancies.

The Anne Hawke Prize for best paper published in 2000 was won jointly by Associate Professors Rick Sarre and Martin Shanahan.

The International Graduate School of Management launched the electronic *Australasian Journal of Arts and Cultural Management*.

The journal, *Accounting Forum*, was published jointly by Blackwells and the University.

The Association of Universities of the Products of the Wine and Vine (AUIV) and the International Office of Wine and Vine (OIV) signed a multilateral treaty with the University for development of research and scholarship in Wine Marketing.

The South Australian node of the Cooperative Research Centre for Sustainable Tourism was launched by the State Minister for Tourism, the Hon Joan Hall.

The School of International Business hosted the Pacific Rim Real Estate Conference.

#### **International initiatives**

Rapid expansion in offshore student numbers continued with 4 200\* students studying in Division programs offshore, an increase of 30% on the same time last year. This included 1 900\* postgraduate students.

The Doctor of Business Administration had almost 400\* offshore students and intakes in several countries.

The Mandarin language MBA continued to be one of the Division's fastest growing programs, with over 700\* students.

The Division had 780\* onshore international students. There was significant growth in the number of postgraduate students.

Courses in Environmental Law and Enforcement were delivered to Indonesian judges, prosecutors, police, EPA officers and NGO representatives.

The international student exchange program had 35 Key Partner Universities in Europe/UK, Canada, the US and Asia.

(\* figures at 31 August 2001)

#### **2001 initiatives**

The Overseas Programs Management Board, chaired by Adjunct Professor Michael Burgess, was established to provide strategic support and oversight of offshore program development. The establishment of the Board recognises the importance of managing and coordinating all aspects of offshore operations. A stringent business case model for new and existing programs was developed.

The Division began a long-range project to redefine its working culture. The project was initiated by the Divisional Advisory Committee and academic and general staff from across the Division.

The UniSA Winehub was established by the Division as the virtual door to the University's wine-related research and development ([www.winehub.unisa.edu.au](http://www.winehub.unisa.edu.au)).

A licensing model for the Chinese MBA was implemented.

Following its launch in late 2000, the Centre for the Development of Entrepreneurs was established and its foundation program developed.

## Education, Arts and Social Sciences

### Priorities

The Division's priorities in 2001 were to:

- improve the management of quality improvement in teaching and learning
- increase student satisfaction
- broaden the base of funded research
- improve the quality of the teaching and learning environment
- manage revenues and expenditures to achieve business targets.

### Teaching and learning

Dr Giancarlo Chiro and Dr Enza Tudini from the School of International Studies were successful in winning a three year extension to a Cassamarca Foundation funded position in Italian Studies. The funds (totalling \$220 000 over six years) support the development of Italian courses for online delivery and the Business Italian strand.

### Research and research education

The Division won four of the University's nine ARC Discovery Grants, two of the University's sixteen linkage grants and the university's only NHMRC and Indigenous Researcher Grant.

The Centre for Applied Behavioural Science received approval for funding from Qantas Airways and the Civil Aviation Safety Authority to undertake a three-year project to examine the causes and consequences of fatigue among international and domestic pilots.

The Research Centre for Languages and Cultures Education won a grant of \$680 000 to provide advisory support to teachers of Chinese, Italian and Indonesian in 2001 and 2002.

The Social Policy Research Group, in collaboration with SACOSS, released a report on *Social Disadvantage in South Australia*. The first major study of its kind, it included new evidence of rising poverty and inequality over the last two decades.

Dale Bagshaw from the Conflict Management Research Group, received a grant from the Crime Prevention Unit of the South Australian Attorney-General's Department and the Commonwealth Partnerships against Domestic Violence for a project to assist children to overcome the effects of domestic violence.

### International initiatives

The Bob Hawke Prime Ministerial Centre was awarded the SA Great Award for Education 2001, in recognition of outstanding services to the state, particularly in encouraging national and international recognition through its public program, contributing to community knowledge of significant issues and through the support of an esteemed group of patrons, including Nelson Mandela.

The number of international onshore students studying in the Division increased by 18%, while revenue from offshore programs exceeded the budget forecast of \$2m by \$0.79m.

The Division's offshore programs performed well in Singapore and Hong Kong and a new Masters in Communication Management commenced in Hong Kong.

The School of International Studies won a University Mobility in the Asia Pacific Region (UMAP) grant for student exchange with the National University of Malaysia and the Uniapon School won a UMAP grant to send students and staff to the Northern Arizona University.

The Division held a number of successful events for international students, including the International Student Forum during International Business Week. Five international students talked about their experiences at UniSA, in Adelaide and in South Australia.

Through the Centre for Studies in Literacy, Policy and Learning Cultures, the University reached an agreement with the University of the Witwatersrand, Johannesburg, South Africa to provide consultancy support in the use of online teaching and the development of courses in online skills.

The Hawke Institute won an Australia-India Council grant to foster relations between the University and the Centre for Australian Studies at the University of Madras, Chennai. The grant will fund month-long exchange visits for two UniSA researchers to Chennai, and for two Indian researchers to the University.



The presence of Professor Mbulelo Mzamane as visiting professor at the Hawke Institute and the Aboriginal Research Institute strengthened links with South Africa - and with the Humanities Research Centre at the Australian National University. Ties have also been strengthened with the Centre for Australian Studies at the University of Texas at Austin, through the visit of Professor James Galbraith.

#### **2001 initiatives**

Visions for a Nation, a joint presentation of the Hawke Centre and the Centenary of Federation, took place in October. The Forum featured Hon Alexander Downer, Hon Tim Fischer, Rt Hon Malcolm Fraser, Hon Bob Hawke, Hon Joan Kirner and youth speaker Ms Aparna Rao. The event was televised by the ABC.

The Division developed a Diversity Management Plan for 2001 – 2003, which outlines strategies for Indigenous people and women; and strategies relating to cultural and linguistic diversity, disability and age.

The Division established a Buddy Program for new and continuing students in conjunction with The Golden Key International Honour Society. The scheme matches students with more experienced students.



## Health Sciences

### Priorities

The Division's priorities in 2001 were to:

- maintain and improve the quality of teaching and learning
- increase the flexibility of course and subject offerings and develop a coordinated approach across the division to expedite e-learning
- increase the number of international students both onshore and offshore
- investigate a variety of options for the restructuring of the Division's courses and the development of new course offerings
- position the Division as a key player in aged care teaching and research
- ensure the leadership of the Division in rural and remote health teaching, research and service delivery
- increase non-DETYA revenue generation whilst minimally increasing staffing costs
- replace costly items of equipment that support its teaching and research programs.

### Teaching and learning

The School of Nursing and Midwifery achieved an Australian first by developing a new Bachelor of Midwifery program open to applicants who have not previously qualified as registered nurses. The Nurses Board of South Australia approved the program for the next five years with the first cohort of students due to commence in 2002.

The Australasian Sonographer Accreditation Registry accredited the Graduate Certificate in Medical Radiation (Breast Imaging) for the maximum period of five years. It is one of only two programs in Australia which allows graduates to become breast sonographers

The School of Nursing and Midwifery's Wound Management online education course, the first comprehensive course of its type in the world, became fully operational in 2001 with enrolments from Australia and overseas.

The Division worked closely with staff from the recently established Spencer Gulf Rural Health School, and members of ROUSTAH, the University's student rural health club, to improve the profile of rural and remote health and increase opportunities for students to participate in rural placements.

The number of postgraduate course-work students in the School of Medical Radiation exceeded 200 in 2001.

Eight occupational therapy students, supported through a UMAP grant, completed four community development projects in Thailand. UMAP funding was secured to send a further six students to Thailand in 2002.

An Aboriginal and Torres Strait Islander (ATSI) Advisory Group was established to monitor and provide advice on: strategies for increasing participation, retention and success of ATSI students in Divisional programs; development of programs, courses or modules focusing on Indigenous health and culture; and promotion of cultural awareness amongst staff and students. Cultural awareness activities included a two-day program at Camp Coorong for first year Podiatry students, and a half-day seminar for staff from across the Division.

### Research and reasearch education

Associate Professor Lorraine Sheppard in collaboration with the Italian Benevolent Foundation SA Inc was awarded funding of \$150 000 from Home and Community Care to undertake the research project: *Evaluation of Healthy Lifestyle Dementia Respite Program*.

Associate Professor Annette Summers, in collaboration with North Western Adelaide Health Service and Playford Partnership, received a Breakthrough Grant of \$245 800 from the Breakthrough Youth Employment Program for the *Post Partum Household Assistants Project*. This funding, coupled with \$600 000 from the Department of Human Services will provide an education program with subsequent employment for young, unemployed women in the northern area as post partum household assistants.

With AUSAID and the Department of Human Services, Dr Colleen Smith from the School of Nursing and Midwifery acted as a consultant on a project for a World Health Organisation.

Dr Kay Price, Marie Heartfield and Terri Gibson from the Centre for Research into Nursing and Health Care were awarded a grant for \$52 686 from DETYA under the Evaluations and Investigations Program for their research project: *Nursing Career Pathways*.





The Simmons BackCare bed tested and evaluated in research conducted by Associate Professor Pat Trott and endorsed by the Australian Physiotherapy Association was successfully launched in Western Australia.

The Centre for Pharmaceutical Research was awarded an Anti-Cancer Foundation Competitive Grant (\$54 057) for 2002 for the project: *Skin cancer prevention using the enantiomers of flurbiprofen*.

The Quality Use of Medicines and Pharmacy Research Centre (QUMPRC) continued its nationally important work in a number of research projects and consultancies, with outcomes driving Commonwealth policy. The research included collaboration across the Division.

Associate Professor Andrew Gilbert and Dr Libby Roughead from the QUMPRC were appointed to the Pharmaceutical Health and Rational Use of Medicines Committee.

The Driver Assessment Rehabilitation Service (DARS) from the School of Occupational Therapy was granted funding from the Motor Accident Commission to analyse, interpret and report on the results of a Dementia and Driving Clinical Trial.

Associate Professor Kevin Norton and Dr Tim Olds from the School of Physical Education, Exercise and Sports Science were invited to be members of an expert working group to set world guidelines for anthropometry measurements.

With Adelaide University and Charles Sturt University, UniSA is a partner in a new \$2m research facility for investigating how to improve red wine quality. The Facility for Grape and Wine Processing and Innovation in Wine Production was established at Adelaide University's Waite Campus.

### International initiatives

A Memorandum of Understanding was signed by UniSA, Adelaide University and Taylor's College in Malaysia for a pre-Health Sciences Program which will be a feeder into the medicine, dentistry and health sciences programs of the two universities.

The third cohort of the offshore Bachelor of Pharmacy twinning program with Sepang Institute of Technology commenced in Malaysia and the first cohort commenced their Australian experience. The Bachelor of Pharmacy Degree with Sepang Institute of Technology gained full accreditation from the Malaysian Accreditation Board. It is the first Pharmacy Program offered by an Australian University in Malaysia to achieve this accreditation.

A contract with the University of Santo Tomas, Manila, Philippines for the teaching of the inaugural Masteral program for Physiotherapy gained approval from the Philippines Education Ministry.

The School of Nursing and Midwifery developed the Bachelor of Nursing program offered in Malaysia to incorporate a 'with Honours' program.

A conversion program leading into the Master in Clinical Pharmacy commenced in Mysore, India. There are plans to provide this program in other areas of India in the future. Memoranda of Understanding were signed in India with Sri Ramachandra Medical College and Research Institute, KJ Hospital Postgraduate and Research Centre and Dr Reddy's Heritage Foundation. These agreements will involve the Division in physiotherapy, nursing, medical ultrasonography and aged care programs from 2002.

The School of Nursing and Midwifery had 20 Study Abroad students from Norway in 2001. The School received extremely positive feedback from Norway about this program and it is expected to have as many students again in 2002.

The Division hosted a meeting of the Ambassador of Norway to Australia, His Excellency Mr Ove Thorsheim and Mrs Thorsheim, and the Honorary Consul for Norway in South Australia, Mr Petter Carlmark and Mrs Carlmark.

### 2001 initiatives

A priority for the Division in 2001 was to raise its profile within industry and government. Functions showcasing the Division's expertise were held with industry, State Ministers of Health and Ageing, and the Hon Lord Mayor of Adelaide, Alfred Huang.

The Division's priority to become a leader in Aged care teaching and research was enhanced through the following initiatives:-

- Memoranda of Understanding were signed with Aged Care and Housing Group (ACH) and Village Care Ltd. They will provide further opportunities in research collaboration, assist in raising the profile of aged care amongst students and provide opportunities for student placements. Two ARC SPIRT grants were won by the Centre for Research into Nursing and Health Care in collaboration with ACH and a Linkage Grant was won by the Centre in collaboration with Village Care.
- Links with the Italian Village through the School of Pharmacy have initiated research into aged care facility design and management and its impact on lifestyle for older people.
- The Driver Assessment Rehabilitation Service (DARS) initiated a strategic link with Helping Hand Aged Care Inc, which will see a DARS clinic being developed at the Trinity Green Aged Care Complex being established at Mawson Lakes.
- The involvement of key Divisional staff in the leadership and sub groups of the SA Business Vision 2010 Healthy Ageing Cluster.
- A proposal for the establishment of a Centre for Education and Research in Aged Services received support from the Department for Health Services (DHS) and the Office for the Ageing.

Divisional links to the State Government's Food for the Future initiative strengthened during 2001 through regular meetings with key stakeholders and attendance at workshops.

The Division held a successful Strategic Directions Planning Day in November, which was attended by members of Division Executive, the Division's Research Centres, the CRC for Water Quality and Treatment and an invited staff member from each School.

The Division gave in principle support for the concept of an Institute of Population Health as a collaborative activity between the three State universities, DHS and other key stakeholders.

Funding of \$22m was officially announced for the new Spencer Gulf Rural Health School (SGRHS) at Whyalla. The SGRHS will incorporate the SA Centre for Rural and Remote Health (SACRRH) and the new Adelaide University Rural Clinical School (AURCS). Joint appointments with SACRRH in pharmacy, podiatry and pain sciences will enhance the opportunities for clinical placements in rural and remote settings for students from Schools within the Division of Health Sciences.



# Information Technology, Engineering and the Environment

## Priorities

The Division's priorities in 2001 were to:

- consolidate existing programs and develop new programs to meet emerging onshore and offshore demands
- establish a senior academic position in water engineering to lead program development and strengthen industry and government relationships
- compete for a portion of the limited number of innovation university places made available nationally through the Federal Government's Backing Australia's Ability.

## Teaching and learning

An international recruitment process resulted in the appointment of Dr Tony Minns as Associate Professor of Sustainable Water Resources Engineering.

The University was awarded 55 of the targeted undergraduate places under the Backing Australia's Ability innovation initiative.

A new program, Bachelor of Information Technology (Geographic Information Systems and Computing) was approved for commencement in 2002.

Two distance delivery mode courses were developed in the Master of Project Management.

An articulation agreement enabling bi-directional credit transfer was signed between the School of Electrical and Information Engineering and the Regency Institute of TAFE.

Five professional accreditation associations visited the School of Geoinformatics, Planning and Building during the year to assess building and surveying programs. Full accreditation was granted by The Board of Quantity Surveyors, Malaysia; The Royal Institution of Chartered Surveyors, for Building Surveying; The Singapore Institute of Surveyors and Valuers; The Hong Kong Institution of Surveyors and the Australian Institution of Building Surveyors.

The unexpected demolition of the Flying School's fleet of aircraft caused some concern but the professionalism and efficiency demonstrated by University staff in dealing with the disaster was commendable. Only a relatively minor interruption to flying instruction at the school resulted.

## Research and research education

Loughborough University finalised a license agreement to apply the Centre for Environmental and Recreation Management Performance Indicators program in the UK.

Associate Professor Wasim Saman from the School of Advanced Manufacturing and Mechanical Engineering participated in a reference group of international experts convened to advise the University of Shajah on the creation of a centre for renewable energy in the United Arab Emirates. This followed his participation in the Shajah Solar Energy Conference where he delivered an invited paper and workshop on *Developments in Solar and Energy Efficient Air Conditioning*.

Professor Lakhmi Jain of the School of Electrical and Information Engineering is the co-investigator of a research project managed by the Department of Computing of Hong Kong Polytechnic University. The project was granted \$400 000 funding by the Research Grants Council of Hong Kong and will develop *An Integrated System for Severe Weather Forecast – Identifying and Tracking the Trajectories of Tropical Cyclones*.

Professor Michael Taylor from the Transport Systems Centre spent several months in the United Kingdom at the University of Newcastle's Transport Operations Research Group working on the topical research area of transport network reliability. It is hoped this will lead to closer international research collaboration.

Progress in landmine detection schemes achieved by the Knowledge-Based Engineering Group within the School of Electrical and Information Engineering attracted the attention of European TV, which filmed a documentary at Mawson Lakes. The research is based on knowledge-based systems designed to detect mines in thermal and multispectral images.

The Systems Engineering and Evaluation Centre was awarded a grant from the Sir Ross and Sir Keith Smith Trust to establish a Centre of Expertise in Aviation Systems Safety. In addition, the Trust funded a project on the use of unmanned aerial vehicles for mining exploration in Australia.

## International initiatives

The School of Advanced Manufacturing and Mechanical Engineering commenced offshore delivery of the Bachelor of Engineering in Singapore. 45 students were enrolled in the first intake.

A general international agreement was signed between the Division and the Department of Electrical and Communications Engineering, Helsinki University of Technology, for student exchanges, collaborative research and staff development.



## Whyalla Campus

### Priorities

The Campus' priorities for 2001 included the:

- continued development of regional customers and stakeholders
- successful implementation of joint projects or projects involving Campus expertise.

The Campus maintained a close involvement with the Upper Spencer Gulf Common Purpose Group and the region's new Mining and Resources Industry Cluster through representation on the Board and through co-chairing of the Enterprise Development Group. The Mining and Resources Cluster represents a significant advance in levels of cooperation between the region's substantial expertise base and contractors in engineering, infrastructure and maintenance. These contractors are now jointly bidding for new work (eg. Alice Springs to Darwin railway) and gearing to be globally competitive. Possibilities for enhancing the University's role in the regional innovation system through the Mining and Resources Cluster are being explored, including a proposal for a Maintenance Research Centre.

A challenging development was the leveraging of funding through partnerships with local not-for-profit organisations. Highlights included partnerships with the:

- Salvation Army (ARC Linkage funded)
- Whyalla Counselling Service (Early Intervention Parenting Support)
- Whyalla Youth Accommodation Service and Plaza Youth Centre (Reconnect – a project reuniting rural and remote families)
- South Australian Centre for Rural and Remote Health
- SA Dairy Corporation – stress in SA Dairy Farmers as a response to industry deregulation (ARC-SPIRT)
- local communities such as Ceduna through a Community Strength and Wellbeing project and an Indigenous Family Violence project.

### Teaching and learning

A formal review of the Bachelor of Business/Diploma of Business was undertaken. The program was modified to incorporate a stronger accounting major and an e-commerce elective.

Agri-business, Social Development and Feminist Theory and Gender Analysis were developed for flexible delivery mode.

The Bachelor of Business/Diploma of Business was modified to incorporate a stronger regional business focus including e-commerce and agribusiness.

Nursing, Whyalla, responded to a need in the South East of South Australia by offering a nursing program. The program has been well received by regional hospitals in the South East of the State.

A trial was conducted with fourth year students to embed the graduate qualities into student's placement experience. Using material available within transcript 2, students connected their learning with the graduate qualities.

A Graduate Qualities Exemplar for Social Work was developed, enabling persons interested in social work to gain an appreciation of the skills and knowledge acquired whilst undertaking the program.

A Whyalla Student Grievance Process was developed between the Whyalla Academic Committee and the University of South Australia Student Association. Since the establishment of this process a minimal number of student grievances have needed referring to the Dean: Whyalla Campus.

Seven staff completed the Creating a Collaborative Learning Environment program. The program helped staff to respect and understand each other's teaching strategies and helped to broaden their approach to teaching.



### Research and research education

At the end of 2001, the Campus had 18 PhD students. The first completion is expected in 2002. Two other students and two staff members have PhD dissertations under examination.

Whyalla staff published one book, two book chapters and numerous articles in refereed journals. The Rural Social Work Journal and the International Journal of Rural Psychology continue to be published by the Campus.

Associate Professor Maureen Dollard presented a Keynote Address at the National Symposium on Work Stress, convened by the National Health and Safety Commission.

A collaborative project between Nursing Whyalla Campus and the University of Southern Queensland received funding to develop better understanding of the use of medicinal plants in the treatment of diabetes in Aboriginal people.

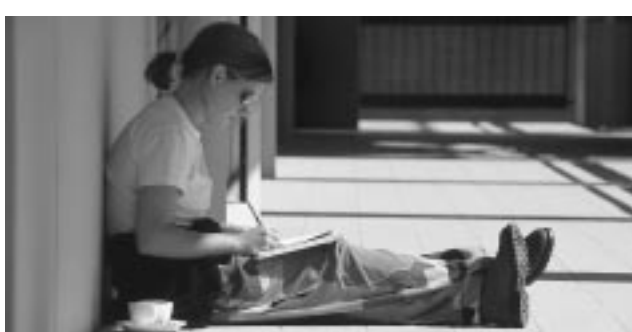
### International initiatives

A second group of three Bhutanese students completed the Certified Practising Accountant Year under the Campus' AusAid project with the Bhutanese Government.

The Campus continued to develop links with significant international rural development institutions. In 2001 the Campus was awarded a third UMAP grant to send students to study in two leading institutions in Moscow: Timiryazev Agricultural Academy and Moscow State University.

### 2001 initiatives

Access to the Bachelor of Nursing program was extended to enable enrolled nurses in Port Augusta and surrounding areas to upgrade their professional qualifications.



## Collaboration with industry, the professions and the community

### Business and Enterprise

The National Australia Bank (NAB) continued its sponsorship of Professor Mervyn Lewis' NAB Chair of Banking and Finance. Professor Lewis is recognised as an international expert in banking systems, in public/private partnerships and in Islamic banking. Professor Lewis presented a Working Links seminar sponsored by the NAB on public and private services, and a seminar on financial services for the University's Women and Leadership program.

The Centre for the Development of Entrepreneurs created the SA Innovation Map, a directory of organisations that support the commercialisation process ([www.cde.unisa.edu.au/innovation/cdeindex.html](http://www.cde.unisa.edu.au/innovation/cdeindex.html)).

MBA's delivered in partnership with Le Cordon Bleu were launched by the Premier, Hon John Olsen.

Professor Richard Blandy from the School of International Business presented the findings of his review of the history and effectiveness of South Australian industry clusters to an audience of over 550 at a meeting of SA Business Vision 2010 in the Festival Theatre.

Lewis Barrett, one of Australia's most experienced accountants, and former president of the SAIT Council, made a substantial personal donation to establish a new prize in the School of Accounting and Information Systems.

The SA Environment Protection Authority contracted Professor Rob Fowler to conduct its Environment Protection and Enforcement Certificate Course.

UniSA's EPICentre electronic meeting facility hosted major South Australian organisations, including SA Water, Primary Industries and the Department of Human Services.

Associate Professor Rhonda Sharp collaborated with the Asian Development Bank Institute on the equity strand of the Public Expenditure Management program for senior Treasury officials of Pacific countries.

Professor Rod Oxenberry and Janny Maddern delivered an executive development program for Chief Investigators for the Hong Kong Independent Commission Against Corruption.

The Management Systems Research Group conducted six workshops on management issues for Origin Energy.

The European Community engaged the Centre for the Development of Entrepreneurs to develop the on-line training and accreditation system for users of the Harmony incubator management and operations system.

Smartlink continued the development and implementation of key management education activities for small and medium manufacturing enterprises.

### Education, Arts and Social Sciences

Two seminars, attended by selected researchers from the Schools of Social Work and Social Policy, Psychology, Unaipon, and deLissa were organised for the Department for Correctional Services (DCS). The main outcomes included a better understanding of the future directions and research priorities for DCS and increased familiarity with relevant current and future research, training and consultancy activity within the Division.

A six month review of Teacher Education was conducted by a committee comprising University staff and representatives from the wider education community. The Report of the Review: *Shaping the Future: Educating Professional Educators* outlined innovative and creative directions for Education at UniSA. Implementation of its recommendations commenced in late 2001.

The Unaipon School, in conjunction with members of the Mid Murray Aboriginal communities, formed an association with BRL Hardy company, Banrock Station Wines, for the provision of archaeological assessments and cultural trail interpretive information.

The Unaipon School was successful in its tender to review Aboriginal Prisoners and Offenders Support Services Inc, commissioned by ATSIC.

## Health Sciences

The School of Nursing and Midwifery signed a Memorandum of Understanding with the Nursing Agency of Australia to work together to benefit the areas of nursing and midwifery and address the nursing shortage.

A Memorandum of Understanding between the Division and Village Care Ltd was signed in August which will provide further opportunities in research collaboration, assist in raising the profile of aged care amongst students and provide opportunities for student placements.

The official signing of a Joint Appointment Agreement between UniSA and IMVS was undertaken in May. The Agreement formalises the continuation of a joint appointment for the position of Associate Professor in Clinical Microbiology.

In a plan to counter the shortage of nurses in the State, St Andrew's Hospital announced it will fund the first hospital-supported nursing scholarships at UniSA. Two \$7 500 scholarships will be awarded in 2002 to second year nursing students.

A working party was established between key paediatric occupational therapy clinicians, staff from the School of Occupational Therapy and representatives from the Department of Education, Training and Employment to explore collaboration in the provision of support for children with special needs. A Memorandum of Understanding is being developed to guide the collaboration.

## Information, Technology, Engineering and the Environment

Built Environs generously provided two annual scholarships for first year students in the Bachelor of Construction Management and Economics degree for the next four years to a total value of \$20 000.

The Boulderstone Hornibrook Travelling Scholarship and the Building Consultancy Scholarship were awarded during the year, demonstrating strong industry and community support for the building discipline.

The Mayor of Salisbury presented the inaugural City of Salisbury scholarships to four students from the northern suburbs who are currently enrolled at Mawson Lakes. These awards will be made annually to encourage the participation of northern area students in University education.

## Whyalla Campus

Associate Professor Brian Cheers chaired the Australian Association of Social Workers Accreditation Panel for the Bachelor of Social Work (BSW) program at the University of Queensland. Peter Munn was a member of the panel for the BSW at the Northern Territory University.

Campus staff continued to be active members of a number of regional development bodies including: Whyalla Economic Development Board, Upper Spencer Gulf Common Purpose Group, Franklin Harbour Community Development Group, Southern Rangelands Rural Plan Taskforce, Mining and Resources Industry Cluster, Whyalla Education Review and Centacare.

A number of not-for-profit organisations were supported to gain significant funding for service delivery and program improvement activities. Collaborating organisations include the Salvation Army, SA Dairy Corporation, Whyalla Counselling Service, Weena Mooga Gu Gudba Incorporated, Ceduna.



## Community service

### Business and Enterprise

The University was the principal sponsor of International Business Week, a major event for businesses involved in export.

Australian Business Week, a one week residential business education program for senior high school students, was a great success with 47 students attending, about half of whom were from regional South Australia.

The Pro Vice Chancellor and Vice President gave the first offshore Working Links Seminar (Universities, Innovation and Intellectual Property) to our Hong Kong Alumni.

Professor Richard Blandy served on the Adelaide Metropolitan Area Consultative Committee, a Commonwealth body that advises the Department of Employment, Workplace Relations and Small Business on a regional assistance program aimed at improving job opportunities, in this instance in the Greater Adelaide Metropolitan Area.

Associate Professor Rhonda Sharp from the Bob Hawke Prime Ministerial Centre participated in the Adelaide Festival of Ideas 2003 organising committee.

Professor Mike Burns from the School of International Business was invited to appear before the SA Parliamentary Environment, Resources and Development Committee to give expert evidence on economic aspects of ecotourism.

50 Year 12 students attended mock lectures and workshops as part of Experience Uni Day, a joint initiative with the Division of Education Arts and Social Sciences.

The Community Economics Conference 2001 was sponsored by the University. Under the title, *Defusing the Debt Time Bomb*, local, national and international speakers provided detail of the rapidly escalating costs associated with the sudden and rapid increase in personal, community and national debt.

The School of Marketing was one of the organisers of the Website in a Day competition held at the Ngapartji Multimedia Centre in September. Teams made up of junior school and high school students combined with marketing students to work with a small business to develop a working website.

### Education, Arts and Social Sciences

Dr Rob Amery from the Unaipon School, in consultation with the Kurna Elders Committee and the Adelaide City Council, was instrumental in the naming of more than 16 parks around the city of Adelaide with Kurna names.

The College of Indigenous Education and Research's 10th Aboriginal Summer School for Excellence in Science and Technology (ASSETS) took place in January at Prince Alfred College. The program was attended by 23 Indigenous young people from across the nation.

The Hawke Institute, with the Division of Education, Arts and Social Sciences, held the third Weaving the Social Fabric public lecture series. The series brought together researchers and the community to discuss some of the major issues shaping our lives, our learning and our work in 21st century Australia.

As part of the University's Tenth Birthday Celebrations, the Magill Campus History Walk was launched in November. Features of the walk include sites such as Murray House established 1842, the de Lissa Institute of Early Childhood and Family Studies (named after the Director of the first Kindergarten in Adelaide 1906), the Colin Thiele Research Collection, a history of Building Development and the Third Creek rehabilitation

The largest lecture theatre in the Amy Wheaton Building at Magill campus was officially named the Marie Mune Lecture Theatre by the Vice Chancellor as part of the celebrations for the Tenth Anniversary year.





## Health Sciences

Staff and students of the podiatry undergraduate degree, in association with the Diabetes Outreach Service of the Queen Elizabeth Hospital, undertook health worker education programs and community assessment clinics on diabetes and footcare in Broken Hill and Wilcannia. Clinics were also conducted for Nganampa Health Service at Ernabella, Fregon and Amata, in the far north of South Australia.

UniSA showcased the expertise of its staff in diverse areas by providing free Successful Ageing Seminars (sponsored by National Pharmacies) to the community on quality of life issues. Although the seminars were designed around the needs of retirees or people approaching retirement, they also attracted carers, health professionals, teachers and students. Topics covered during 2001 included: men's health, diabetes, nutrition, water quality, and quality use of medicines. More than 1000 people attended the seminars during the year and for the first time, a seminar was conducted in Mt Gambier.

A team from the School of Occupational Therapy won a tender to undertake the South Australian Transport Subsidy (SATSS) Assessment, a State Government program which supports people, prevented from using public transport because of severe and permanent physical mobility, through the provision of subsidised travel in taxis.

The Royal District Nursing Society (RDNS) West Torrens Nursing Centre was officially opened in October. The Centre is jointly managed by the School of Nursing and Midwifery and the School of Physiotherapy (Podiatry).

The Spencer Gulf Rural Health School (SGRHS) opened a new University Family Practice in Ceduna. The practice, funded by a guarantee from the Ceduna District Hospital Board and the Eyre Regional Health Service, will have three doctors in place initially and will collaborate with the Aboriginal Medical Service in Ceduna. In addition to standard GP services, the practice will provide a range of primary health care activities and over time, is expected to develop into a dynamic, multi-professional service. The practice will aim to become a substantial academic base in the west of the State and will provide a range of placement opportunities for students from Schools in the Division.

Helen Bradley from the School of Nursing and Midwifery, in partnership with the Nganampa Health Council, developed a unique program providing Aboriginal health workers with field experience. The program recognises Aboriginal health workers as unique health professionals and provides them with an insight into the roles of other health professions and the University.

Associate Professor Nicholas Procter from the School of Nursing and Midwifery undertook a *Community Education in Transcultural Mental Health* project in 2001. The objectives of the project were to create an educational model for mental health professionals about migrant and refugee mental health issues and to develop crucial information and resources for non-English speaking background communities in need of access to mental health services.

Jim Dollman and Associate Professor Kevin Norton from the School of Physical Education, Exercise and Sport Studies devised a successful intervention project that involved schools in the northern suburbs taking part in a program to get children into physical activity. The Get Active Program, the first of its type in Australia, introduced 5-12 year olds (approx 400 in total) to exercise during Out of School Hours Care. The initiative, made possible through the support of a \$77 000 grant from the Government, is another example of the School providing leadership in helping to tackle the problem of childhood obesity.



### Information Technology, Engineering and the Environment

To celebrate the name change of The Levels Campus to Mawson Lakes Campus and to coincide with UniSA's Tenth Birthday celebrations, the Division arranged a public lecture by Hon Barry Jones AO on the subject, 'Is Australia ready for the Information Revolution? Can we become a Knowledge Nation?'

Siemens Science Summer School was conducted in January with 56 Year 10 students participating in the UniSA program. Formal and informal feedback indicated the program has maintained its popularity.

Future Careers in Technology, a two day expo held in conjunction with National Science Week, was designed to expose year 8-12 secondary students to the possibilities of technology and science through hands on displays, science shows and career talks from staff, past students and industry partners. 500 students attended from private and public schools in both the metropolitan area and country South Australia. Over 40 staff from the Divisions of Information Technology, Engineering and the Environment and Health Sciences played a part in the event.

30 students from the School of Environmental and Recreation Management prepared and attended environmental education stalls at the 2001 National Parks Festival at Belair. The event attracted over 10 000 people and the students were complimented on their highly professional manner.

The Division continued its successful work experience program for secondary school students. 23 Year 11 students completed a three-week work experience within the Schools of Geoscience, Minerals and Civil Engineering, and Electrical and Information Engineering.

Staff of the Sustainable Energy Centre of the School of Advanced Manufacturing and Mechanical Engineering were involved in the organisation of the ISES Solar World Congress held in Adelaide in November. The congress coincided with the World Solar Challenge, an international solar expo, model solar car and boat races and a public information day.

The Centre for Advanced Manufacturing Research participated in the Festival of Opportunities expo at the South Australian Centre for Manufacturing by supporting a hands-on robotics display.

A large contingent of staff and students from the School of Electrical and Information Engineering and the Systems Engineering and Evaluation Centre were involved in the organisation and hosting of the INCOSE 2001 Systems Engineering Conference in July. The conference was attended by 650 local and international delegates.

The South Australian Solar Car Consortium had a successful year with participation in both the Australian Greenhouse Office SunRace 2001 and the 2001 World Solar Challenge. Solar Car, NED 26, finished in second place in the SunRace and received an award for innovation and in the World Solar Challenge, finished second in its class. The team comprised three UniSA, four TAFE and five Fremont-Elizabeth High School students. An added dimension to this year's race was the inclusion of NED's new companion car, Kelly, which made its first race appearance.

Professor Stephen Hamnett of the School of Geoinformatics, Planning and Building was involved in the organisation and presentation of a successful international urban design conference in March, entitled City as a Stage. The event attracted international and national speakers and was supported by local and State government agencies.

### Whyalla Campus

Nursing Staff were active in addressing regional community concerns about nursing shortages. Initiatives included:

- the collaborative delivery of the Bachelor of Nursing through the South East Institute of TAFE (Mount Gambier)
- collaborative arrangements with the North and North Western Health Services to upskill local enrolled nurses
- proposals for joint appointments and other forms of professional in-service for local nurses.

The Campus sponsored the 2001 International Business Week – Regional Roadshow which focussed regional industries on the benefits of exporting.

Law Week was celebrated by a Campus-sponsored mock trial involving staff research students and 100 attendees.



A collaborative project between the South Australian Centre for Rural and Remote Health, the Campus Business Development Manager and the Australian College of Rural and Remote Medicine focussed on strengthening the capacity of the Cambodian Medical Association to provide professional development for its rural members.

### The Art Museum

In celebration of the University's Tenth Birthday, the Art Museum developed two special exhibitions recognising achievements of outstanding graduates:

- **Ten10:** anniversary objects, in collaboration with the Louis Laybourne Smith School of Architecture and Design, opened the Art Museum's 2001 program. Selected graduates from the School's architecture, industrial design and interior architecture disciplines were asked to reflect on their practice over the past decade and develop speculative installations and objects.
- **Orbit**, in collaboration with the South Australian School of Art (SASA) was held during the high profile South Australian Living Artists Week and coincided with University Open Day. Orbit featured work by some exemplary SASA educated artists and designers whose accomplishments have earned them national recognition since graduating. The catalogue design – by prominent design firm IKD – was noted on ABC TV's The Arts Show. IKD, a South Australian-based company, regularly employs graduates from the School.

In September, during the Rundle Mall Women's Day 1901 - 2001 events, the Art Museum hosted the exhibition, *Home is Where the Heart is*. A Centenary of Federation project presented with the Country Women's Association, *Home* focused on work of women which revitalises traditional female craft forms (including Indigenous craft) whilst exploring issues of identity, gender, nationality and place. The Art Museum also presented a forum to hear speakers Vivonne Thwaites, the *Home* exhibition curator, Dr Jean Duruz, Ms Kay Lawrence and renowned art historian and ANU scholar Ms Mary Eagle. *Home* stimulated considerable media interest, and the exhibition catalogue received several awards, the most significant of which was the Design Institute of Australia Award of Merit.

The Art Museum had valuable opportunities to meet and collaborate with a number of colleague institutions and organisations through the touring exhibitions program hosted in 2001. Among these were Monash University's touring exhibition *Telling Tales*, a photographic exhibition which included work by prominent UniSA graduate and Samstag scholar, Deborah Paauwe.

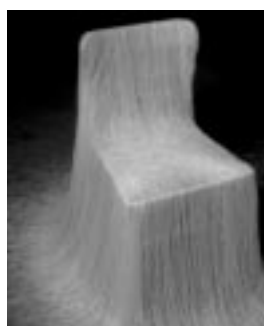
The final exhibition for the year, *Art and Land*, attracted a number of special, incidental events, including the UniSA Arts and Cultural Management program yearbook launch, and the Australia International Council on Monuments and Sites (ICOMOS) Conference reception, where delegates were welcomed by the Minister for the Arts, Hon Diana Laidlaw.

Concluding the year, the Art Museum was again awarded one of The Advertiser's 'Oscarts' - this year a mischievous first - awarded to *Water Medicine*, for the 'weirdest' touring exhibition. Art Museum exhibitions featured regularly in the ABC's *Snapshots*, *Arts Today* and *The Arts Show* programs and in the print media and professional journals, all this confirming the vitality and worth of the Art Museum's programs.

### Samstag Program

In November, the University awarded eight artists from around Australia with Anne and Gordon Samstag International Visual Arts Scholarships. Now in their tenth year, and with 80 scholarships so far awarded, the prestigious Samstag Scholarships are widely recognised as the most valuable offered in this country for overseas study in the visual arts.

The eight Samstag Scholars who will take up their scholarships in 2002 are: Darren Siwes (South Australia), Renarto Colangelo and Daniel von Sturmer (Victoria), Annie Hogan (Queensland), Mathieu Gallois and Astra Howard (NSW), Timothy Horn (Canberra) and Sarah Elson (Western Australia).



## Research

### Priorities

The University's research priorities in 2001 were to:

- continue collaboration with industry
- continue improvement in research education and fostering a research-rich environment
- continue improvement in research degree enrolments and completions
- improve international research links
- emphasise innovation and commercialisation.

The University's research emphasises the creation and application of knowledge in collaboration with government, industry and professional partners. Internal research policies facilitate the development of Research Institutes and Centres with the breadth of expertise necessary to provide solutions to multidisciplinary real-world problems.

Research education is an important aspect of the University's research effort and students are encouraged to work within Research Institutes and Centres. This provides access to researchers who are leaders in their chosen fields and opportunities for students to work on multidisciplinary projects, often in collaboration with external government and industry partners.

### Major achievements

UniSA's emphasis on collaborative and applied research was recognised through significant roles in Cooperative Research Centres (CRCs). CRCs continue to reshape the national landscape of Australian research by bringing together researchers, industry and government. UniSA gained key partnering roles in the new CRC for Rail Engineering and Technologies and the CRC for Water Quality and Treatment in 2001.

In the State of South Australia, UniSA ranked first for new projects (2002-2004) under the Australian Research Council's Linkage Project - an achievement demonstrating purpose and substance to the University's commitment to research partnerships with local industry.

### Institute for Telecommunications Research

The Institute for Telecommunications Research (ITR) is one of Australia's foremost research organisations specialising in technology for digital wireless communications, including both fixed and mobile satellite and terrestrial services. The ITR works closely with government and private industry to provide innovative research and development expertise in product and service development. The following activities were highlights for 2001:

The University continued to play a major part in the activities of the CRC for Satellite Systems (CRCSS), with ITR leading the Satellite Communications Research Program. In addition, ITR provided considerable effort in the development of a communications payload planned for launch on the CRCSS' research satellite, FedSat, due for launch late 2002, as well as leading the development of the control ground station activities.

One primary application for the FedSat Communications Payload is the Advanced Data Acquisition and Messaging (ADAM) service. As well as providing this for FedSat, ITR continued working through CRCSS with the Korean Advanced Institute for Science and Technology (KAIST) in providing an ADAM payload to fly on their KAISTSAT-4 micro-satellite. An engineering model was delivered and is being tested by KAIST, and ITR is assisting with the final flight model and integration testing. This program is an excellent example of the international collaboration stemming from involvement in the CRC program.

ITR continued to be at the forefront of advanced communications coding techniques. Following completion of a successful program of work with Intelsat (US) that resulted in the development of a 2 Mbit/s proof-of-concept satellite modem with outstanding performance, work has continued on further system developments based on 'turbo coding' technology that aims to improve implementation, speed and performance. The new modem is called the Iterative Satellite Receiver. ITR is in the process of assessing commercialisation opportunities for this work.

Through UniSA, ITR is a founding member of the m.Net Corporation. Through m.Net, a national and international community of researchers and developers will pioneer a range of new wireless internet based technologies, applications and services, placing Australia at the forefront of the emerging wireless internet. The North Terrace precinct in Adelaide will be equipped with sophisticated network infrastructure incorporating the latest wireless technologies to deliver broadband. ITR will provide key input into future aspects of wireless systems development.

ITR provided key research and development expertise to the Defence Materiel Organisation, Canberra in the consolidation, enhancement and support to the military Theatre Broadcast System (TBS) project under Joint Project JP2008 Phase 3C. TBS will form a major part of Australia's Defence communications system, providing broadband satellite multimedia access. ITR is involved in several aspects of this concept and technology demonstrator project, assisting Defence in the support and operation of this system, principally developed at the Defence Science and Technology Organisation.

UniSA, through ITR, was awarded the contract by Northrop Grumman as part of Australia's purchase of the Wedgetail Airborne Early Warning and Control (AEW&C) System from The Boeing Company to establish a Training Research and Development Centre (TRDC). UniSA, in partnership with the CRC for Sensor Signal and Information Processing, formed the company Wedgetail TRDC Pty Ltd to fulfil the primary requirement for delivery of specialist courses in radar systems and signal processing. In addition, the TRDC will pursue contracts to carry out research and development projects in radar systems, signal processing and other relevant areas to ensure the development and maintenance of the Australian skill base throughout the anticipated 40 year life of the Wedgetail AEW&C system.

### Ian Wark Research Institute

The Ian Wark Research Institute (IWRI) continued to enjoy strong industry support through large collaborative projects and individual industry projects and provided a range of consulting services in relation to manufacturing and material processing operations. Repeat business is essential to the ongoing success of the IWRI and is a strong indication of its respected position in the marketplace, both in Australia and internationally.

The IWRI, in collaboration with its industry partners, continued to compete successfully for ARC Grants, winning four Linkage, one Infrastructure, and one Australian Postgraduate Award (Industry) Grant in 2001. Industry sponsors included: the Australian Mineral Industry Research Association, Rio Tinto, and TiWest Joint Ventures.

The IWRI is a partner in the Regional Facility for Surface and Micro-Structure Analysis, together with Adelaide University, Flinders University, SA Museum, Western Mining Corporation, the CRC for Welded Structures, SA Forensic Science Centre, Adelaide Womens and Childrens Hospital, and GCAsia Dental P/L. This partnership involves the purchase and/or upgrade of several items of state-of-the-art analysis equipment that will significantly enhance capability across a broad range of research areas and disciplines.

In November 2001 the IWRI hosted the International Research and Technology Advisory Committee (RTAC) which, in addition to the Advisory Board, assesses the performance of the Institute, benchmarked against the best equivalent centres worldwide. The highly respected international RTAC members came from South Africa, France, Canada, and the UK.

### 2001 initiatives

A Dean of Graduate Studies was appointed to coordinate and manage the university's initiatives in research education.

The President's Scholarship Scheme for international research degree students and Vice Chancellor's Scholarships Scheme for members of equity groups in Australia were introduced.

A review of the Research Institutes and Centres policy commenced, to conclude in 2002.

Further incentives were put in place from the research budget to encourage multidisciplinary research.

A survey of external research and consultancy clients resulted in 99% of respondents saying they would recommend the University's research and consultancy services to other potential users.

### Research Institutes

Ian Wark Research Institute  
Institute for Telecommunications Research

### Research Centres

Aboriginal Research Institute  
Advanced Computing Research Centre  
Agricultural Machinery Research and Design Centre  
Centre for Advanced Manufacturing Research  
Centre for Allied Health Research  
Centre for Applied Behavioural Research  
Centre for Biomolecular Studies  
Centre for Business Analysis and Research  
Centre for Industrial and Applicable Mathematics  
Centre for Pharmaceutical Research  
Centre for Research in Education, Equity and Work  
Centre for Research into Nursing and Health Care  
Centre for Studies in Literacy, Policy and Learning Cultures  
Marketing Science Centre  
Quality Use of Medicines & Pharmacy Research Centre  
Research Centre for Gender Studies  
Sustainable Energy Centre  
Systems Engineering and Evaluation Centre  
Transport Systems Centre  
Bob Hawke Prime Ministerial Centre



## Research grants

### Australian Research Council Discovery – Projects

Associate Professor JM McKay, Dr JD Pisanelli:

*Cost-effective integrated engineering and “community partnerships” solution to a latent water policy issue: private dam management and flood safety* (2002-2004 \$218 186)

Dr BM Comber, Associate Professor BR Kamler: *Teachers Investigate Unequal Literacy Outcomes: Cross Generational Perspectives* (2002-2004 \$130 000)

Professor JE Kenway: *Knowledge/economy/society: a sociological study of an education policy discourse in Australia in globalising circumstances* (2002-2004 \$129 000)

Professor AG Mackinnon: *Beyond access: women, higher education and the quiet revolutions of the 1950s* (2002-2004 \$60 000)

Dr RJ Ranzijn, Dr E Carson, Professor AH Winefield: *Measuring and managing the intellectual capital of the ageing workforce* (2002-2004 \$110 000)

Professor AH Bretag, Dr BP Hughes, Dr ML Roberts: *Gating and permeation in CIC channels* (2002-2004 \$141 000)

Professor J Billington, Dr CA Lakos, Professor K Jensen: *Advanced Sweep-Line State Space Reduction Methods for Verification of Concurrent and Distributed Systems* (2002-2004 \$179 112)

Professor M Stumptner, Professor M Schrefl: *Integration of Object Behaviour in Federated Information Systems* (2002-2004 \$180 000)

### Australian Research Council Linkage – Projects

Dr B Gurd, Professor M Smith with AEM Australia: *Developing Management Control Systems for SMEs using the Theory of Constraints* (2002-2004 \$67 635)

Dr J Thomas, Dr B Gurd, Professor R Blandy, J Rice with Family Business Australia – South Australia Chapter: *Strategic responses to Australian family-owned businesses in the manufacturing sector to the pressures of globalisation* (2002-2004 \$67 635)

Professor WA Dawson, Dr A Fletcher, G Roach, M Rodgers, Capt P Armitage with Civil Aviation Safety Authority, Qantas Airways Ltd: *How tired is too tired? Determining the effects of fatigue on pilots’ performance in a simulated flight environment* (2002-2004 \$326 354)

Associate Professor SE Hill, Professor N Yelland, Ms K Thelning with DETE: *Children of the new millennium: Using information and communication technologies for playing and learning in the information age* (2002-2003 \$94 000)

Professor J Cheek, Dr J Jones, A Ballantyne, LI Byers with Village Care Ltd: *Changing Places: An exploration of factors influencing the move of older people from retirement villages to residential aged care* (2002-2003 \$95 000)

Professor L Sheppard, C Landorf with Italian Benevolent Foundation SA (Italian Village): *Architecture and healthy ageing: an investigation into the relationship between aged care facility design, management and the well being of residents* (2002-2004 \$67 635)

Dr K Dogancay, Associate Professor LC Jain, Dr J Khan, Dr A Mahajan, Dr M Chitayev with Motorola Australia Software Centre: *Intelligent Resource Allocation Techniques for Next Generation Wireless Mobile Communication Networks* (2002-2004 \$67 635)

Dr AJ Grant, Dr M Rice, Dr S Naguleswaran, Dr L Schubert with DSpace Pty Ltd: *High bandwidth Efficient Schemes for Portable Multimedia Communications* (2002-2004 \$135 270)

Associate Professor J Schroeder, E Bullen with Inspiration Technology: *Adaptive Modulation for OFDM Signals* (2002-2004 \$67 635)

Associate Professor J Schroeder, Professor L White, Dr M Rice, Dr S Naguleswaran with DSpace Pty Ltd: *Optimal waveform design and compensation techniques for non linear communication channels* (2002-2004 \$135 270)

Associate Professor D Fornasiero, Dr D Beattie, Dr S Buckingham with AMIRA International: *Polymers in the Depression, Aggregation and Dispersion of Particles in the Mineral Industry* (2002-2004 \$317 000)

Dr AR Gerson, Dr JE Thomas, FL Peddie, Dr RW Shaw, L Esdaile with Rio Tinto Ltd: *The recovery of Cu from chalcopyrite-pyrite containing concentrates, ores and tailings* (2002-2006 \$263 859)

Dr S Kumar, Dr M Conlon with TGR Biosciences: *Attachment of growth factors to pure, plasma modified and coated titanium substrates* (2002-2004 \$67 635)

Dr GE Morris, Dr PG Self, MA Devos with Tiwest Joint Venture: *Stabilisation of titania pigments for improved water-based paint applications* (2002-2004 \$110 000)

Professor RS Smart, Dr JE Thomas, Dr SD Miller, Dr RC Schumann with AMIRA International: *Neutralising mineral reactions in acid mine drainage control* (2002-2004 \$320 000)

Associate Professor MF Dollard with the Salvation Army: *Flash Point in the Third Sector: A longitudinal follow up study of the clergy care ‘battle’ within The Salvation Army* (2002 \$45 000)

### Australian Research Council Linkage - Infrastructure, Equipment and Facilities

Dr D Beattie, Associate Professor D Fornasiero, Professor J Ralston, Dr A Schmidt Mumm, Associate Professor G Evans, Dr AV Nguyen, Associate Professor A Pring, Dr J Brugger, Dr KP Kirkbride: *In Situ Spectroscopy of Particle and Material Interfaces* (2002 \$480 000)

### Australian Research Council Discovery - Indigenous Researchers’ Development

Dr V Sanderson, Dr P Thomson: *Diversity and Discipline: The Impact of Punishment on Indigenous Students’ Attitudes Toward Schooling* (2002 \$16 670)

### Australian Research Council Linkage - International

Professor MA Taylor, Professor AD May: *Development of an international knowledgebase on urban transport policy instruments* (2002 \$22 175)

### National Health and Medical Research Council

Dr C van den Huevel, Dr S Ferguson: *Infrared thermal imaging: An innovative technique to assess peripheral body temperature* (2002-2004 \$191 500)

### ATN Small Research Grants

Dr H Bjornlund: *Water policies for unregulated rivers and groundwater aquifers within the Murray-Darling Basin* (2002 \$7 250)

Professor F Briggs, Dr C MacDougall, Professor P Darbyshire, Ms A Glover: *Seeing kids' worlds: Children's theories of place and physical activity* (2002 \$15 000)

Dr S Franzway: *Workers in greedy institutions: Conditions and their consequences in Child Care and Aged Care* (2002 \$15 000)

Dr C Garnaut, Professor A Mackinnon, Adjunct Professor Langmead, Dr J D Duruz: *Building Australia's Home: Means and meaning seen through the lens of the South Australian Home Builders' Club* (2002 \$15 000)

Dr S Nichols, Dr R Najar, M Heartfield, G Restall: *Analysing culture, language and knowledge relations in international postgraduate students' academic writing* (2002 \$11 375)

H Savelsberg, Dr L Kerr, C Talbot: *Examining the social and financial impact of breaching young people in receipt of Youth Allowance who fail to meet Mutual Obligation of Activity requirements* (2002 \$11 375)

Professor A Bretag, Dr G Rychkov: *Helix-helix interaction and dimerisation of mutant chloride channel proteins in myotonic muscle stiffness diseases* (2002 \$17,000)

Dr J Jones, Dr E Muir-Cochrane, C Lowings: *An investigation of the practice and provision of care for people representing to rural Emergency Departments with mental health problems* (2002 \$16 750)

Dr BJ Roberts: *Using fluorescent tagged proteasomes to study endoplasmic reticulum protein degradation* (2002 \$18756)

Associate Professor A Woods, Dr M Venning: *The effects of Australian snake venoms on the cellularbiology of tumour-associated microvascular endothelial cells invitro and in-vivo* (2002 \$16 750)

Dr F Bruno: *Development and testing of an energy storage system for space heating using TH 58* (2002 \$14 500)

Professor P Howlett, Associate Professor C Pearce: *Constructive mathematical models of real-world objects* (2002 \$18 500)

Professor J Thomas: *Phase Analysis Light Scattering (PALS) of systems with a field-dependent electrophoretic mobility* (2002 \$16 000)

Dr J Addai-Mensah : *Improved dewatering of mineral waste tailings* (2002 \$16 000)

Dr K Bremmell, Dr C Prestidge: *Structure, deformation and interactions of blood cells* (2002 \$15 000)

### UniSA Collaborative Research Grants

Dr J Boland, Dr F Tiver, J Maconochie: *A mathematical model to predict the long-term effects of herbivory on vegetation cover and biodiversity in the southern Australian rangelands* (\$30 000)

Associate Professor J Gill, Dr S Franzway, J Mills, Associate Professor Sharp: *Workplace Culture and the Professional Women: the case of engineering in Australia* (\$35 000)

Dr J Jones, Dr R Ranzjin, Dr M Patrickson, Dr L Kerr, J Juniper, Associate Professor E Carson, Professor A Mackinnon, Ms A Ballantyne: *Bounded choices: limits on decision making about life transitions by older people* (\$38 000)

Associate Professor A Minns, Associate Professor D Mulcahy, J Whitle, Dr R Wiltshire: *Modelling and visualisation of the water cycle on the River Murray* (\$30 000)

Professor M Nakata, Professor G Quirchmayr, Dr A Day, I Reid: *Towards online pedagogical designs: A comparative study of the use of information technology and information sources by indigenous and non-indigenous students in the higher education sector* (\$40 000)

Dr K Price, Dr C Provis, S Stack, Dr R Harris: *Options for the residential aged care workforce crisis* (\$30 000)

Dr M Shanahan, Dr D Bills, Dr M Kiley, Professor J Meyer, Dr G Mullins: *Identifying conceptions of research among students and supervisors: Variation, congruence of conceptions and their impact on completion* (\$40 000)

## International

In 2001 there was significant growth in numbers of international students, success in collaborating with key international partners and a continued commitment to building an international perspective in all that we do. Embedding an intercultural dimension in the teaching, research and service of the university was a key focus in 2001.

UniSA enrolled a total of 7 895 international students, comprising 26% of the University's student population. Greatest growth was in transnational programs, up by 48% from 2000 to 5955 students. A further 1 940 onshore enrolments represented 20% growth over the previous year.

The University hosted 48 international delegations from 19 different countries.

The 2001 profile indicated growing strength and diversity as the University continues in its transition from a regional South Australian university to a global university.

### Major achievements

Institutional links were expanded during the year to 110 partnerships in 33 countries. Five of the six new University-level links were with partners in Asia, consistent with the University's engagement with the region.

The 2001 National IDP figures revealed UniSA as the largest provider of offshore education in Australia and the fifth largest provider of education to international students overall.

93 UniSA students participated in international exchange programs.

The University was awarded four University Mobility in the Asia Pacific (UMAP) grants for Student Exchange in Indigenous studies with Northern Arizona University, rural business and communications student exchange with leading Moscow institutions, student exchanges in human movement with North American universities, and a student exchange program between UniSA and National University of Malaysia.

For the third consecutive year UniSA was awarded the South Australian Export Award for Education, recognising UniSA's success in the provision of high quality education services to a growing number of international students through transnational programs.

The University's Chapter of Golden Key won an award at the International Conference of Golden Key in Dallas for its contribution to academic recognition, community service and career development opportunities. This is the highest award presented by the Golden Key International Honour Society.

### 2001 initiatives

In September 2001, the University established a new international office, UniSA International, and appointed Dr Anna Ciccarelli as the Director. The office brings together the University's international student, policy and partnership activities. It will coordinate strategic policy, international student recruitment and admissions, international visitors and travel, and national and institutional partnerships.

An audit of transnational program delivery was conducted during the year. It found the University is successfully internationalising its curriculum and currently delivers 35 programs in 12 different countries. The recommendations for improvement were accepted and are being implemented.

A new system to admit international students completing SACE in South Australia through SATAC, was successfully trialled early in 2001.

University staff and representative offices were given briefings on the changes to the *Education Services to Overseas Students Act 2001* and all promotional material was reviewed to ensure compliance to the new conditions. The University again secured preferred provider status (PQI) in China and a new contract to permit the same recruitment in India in the future.

Throughout the year more than 60 recruitment partners, funded by their own organisations, provided programs to profile specific programs, campuses and Adelaide as a study destination. Alumni represented the University at a range of international marketing and recruitment events, speaking to parents and prospective students about their experiences at UniSA.

Offshore graduations were held in Kuala Lumpur, Singapore and Hong Kong with a record number of the University's international students graduating. The speaker at the Singapore ceremony was Dr Chitra Rajaram, a recent UniSA doctoral graduate. Dr Rajaram is editor and director of *Tamil Murasu*, a newspaper of Singapore Press Holdings. Each ceremony was preceded by a gathering of UniSA alumni to welcome new graduands and provide an opportunity to network with their peers in their home city.





## Teaching and learning

### Priorities

The University's teaching and learning priorities in 2001 were to:

- improve services to enhance a student-centred learning environment
- enrich and expand the e-learning environment
- improve research education
- develop opportunities for working collaboratively and across cultures
- assess student achievement of graduate qualities.

Two key University academic policies, implementation of which will improve ongoing evaluation of quality and viability in academic programs (Policy A-35.A) and ensure a comprehensive system of review of academic and administrative areas, functions and priorities (Policy A-35.B) were revised in 2001.

### Major achievements

#### Supporting a student-centred learning environment

The success of Campus Central and Learning Connection, established in 2000 as one-stop-shops for administrative and personal student support services, was supplemented by the University's new student and academic information system, Medici. When fully implemented, Medici will result in substantial improvements in administrative processes and service provision to students. Medici will enable:

- entry of results via the Web
- consolidation of student financial processes and the provision of online payment facilities
- user-managed reporting.

The Flexible Learning Centre (FLC) continued the move to place student services online. There are 26 interactive study support workshops and 25 learning guides available to support students around the clock. Similarly, online resources and a continually available help-desk are targeted at international students. All students received Get Connected, a CD-ROM enabling internet access, downloadable study resources, the full range of Learning Connection student support, a range of web-browsers and other software to ensure a smooth transition to the online environment.

### E-learning

Online tools, designed to assist students and staff in their learning and work, continued to be developed. They included:

- LookUp - a personalised and customisable student portal
- TellUs - a staff and student tool for carrying out surveys and analysing their results
- Assign IT - an assignment submission / tracking / receipting / returning tool
- Course Evaluation Instrument - a tool that produces student course evaluation questions, publishes questionnaires to course home pages and collates and displays results
- Student Evaluation of Teaching Instrument - a tool enabling student feedback on teaching performance.

Improvements to IT services for students during 2001 included:

- student 'computer buddies' to assist new students during orientation and the first weeks of Semester 1
- new 'computer barns' at three campuses, and the consolidation of computer teaching pools at Mawson Lakes.

### Research education

Two staff were appointed to support research students and work with academics to improve research supervision. A range of support materials are now available online.

A project to develop a university-wide structured research education program was supported by a University Teaching Grant.

### Cross-cultural collaboration

The Deans: Teaching and Learning led the involvement of a number of staff in a program called Creating Collaborative Learning Environments.

Electronic discussion forums and assessment exercises in a number of programs promoted cross-cultural student discussions; curriculum-based collaboration occurred on a regular basis between students from differing schools and between students and relevant professions; and Divisions now have several means of enhancing students' awareness of Indigenous issues.



### Assessing achievement of graduate qualities

University-designed software, transcript2, which enables students to record their achievements against the seven graduate qualities, was trialled in pilot projects in each Division. From 2002, students will be able to link their transcript2 records with Experiencebank, a global online careers service.

Teaching and learning at UniSA received substantial support from the administrative support units which comprise the Access and Learning Support Portfolio.

### Library

The Library selected Endeavor Voyager as its new computer system to manage library operations, in partnership with Adelaide and Flinders Universities. Common use of the same software will provide substantial benefits to users. Cooperative features, such as reciprocal borrowing and shared catalogue access, will continue.

The Library at the Mawson Lakes campus was named the Sir Eric Neal Library in honour of the Governor of South Australia and University Alumnus who completed his term of office this year.

Dr Alan Bundy, University Librarian, was elected 2001-2002 President of the Australian Library and Information Association (ALIA), the national association for the library profession.

Former Prime Minister, the Hon Bob Hawke AC, launched a new digital collection of his speeches in October. Bringing Australia Together: The Prime Ministerial Speeches of Mr Hawke 1983-1991 is the first part of a digital collection being developed by the Bob Hawke Prime Ministerial Library to provide greater public access to important public documents.

### Flexible Learning Centre

The FLC service contracts with Divisions improved professional development activity, with the model being adopted by other service units. Fee-for-service activity increased significantly, with Open Learning Australia enrolments up by 40% in 2001.

The equity initiative, USANET, drew 518 students from low socio-economic and rural schools to the University.

The FLC was restructured late in 2001 to direct future activities more strongly to support online delivery and the international program.

### Registry

Registry prepared for the implementation of the new student administration system, Medici, focusing on business processes of student and academic administration.

In addition, Registry:

- reviewed and updated academic policies including honours moderation and a code of practice for research in honours degrees
- reviewed and revised the procedures for program development, with special reference to offshore programs
- established a Data Entry Standards document for student systems
- constructed a comprehensive Registry Website including important dates, schedule of academic administrative activities and student administration forms
- established an extensive user security system for the approval and recording of security access privileges for Medici.

### ITSU

The Information Technology Services Unit (ITSU) was similarly focused on the successful implementation of Medici. In November the University became the first in Australia to use PeopleSoft software to offer online enrolment via the web. By the end of 2001 over 3 600 students were successfully enrolled using this new capability.

In addition to the core functionality, staff from within the Unit were responsible for developing a range of new facilities designed to maximise the benefits of the Medici system to students and staff, including an upgrade to the UniSAinfo data warehouse services to provide staff with access to data from Medici. These new facilities were made possible by the development of new interfaces between Medici and other University administrative information systems and the implementation of appropriate network security measures.

Development of the Casual Administration System (CAS) was also completed. This new web-based system will effectively replace numerous paper-based systems currently in use. The tracking and reporting functions offered by the new system will enable managers to have greater control over a number of casual employment processes.



Improvements to the capacity, reliability and security of the University's data network and email services completed during 2001 included:

- the significant upgrade (from 2Mbits/s to 34Mbits/s) of a number of links between campuses
- new network links to four 'off-campus' locations
- the replacement of some older Exchange e-mail servers
- improvements to the mail system's virus filtering capacity.

In addition to new capability development, the Unit continued to maintain and provide user support for a wide range of systems and technology services. These included the University's telephone and data networks, student computer pools and barns, corporate information systems and email services.



## Equity

### Priorities

The University's equity priorities for 2001 were to increase the:

- access, participation, success and retention of Indigenous staff and students
- access, participation, success and retention of low socio-economic status students over 25 years of age
- access and participation of students from rural and isolated areas, and low socio-economic status (SES) students under 25 years of age
- success for students from a non-English speaking background as well as all male students of low SES
- access for women into engineering.

### Major achievements

A new program, UniSA-Preparation for Adult Learners (UniSA-PAL) was developed as an alternative pathway into the University for adult non-school leaver students, particularly for those from low SES backgrounds. UniSA-PAL involves a modified bridging program, offered as a means of entry to a broad range of university studies. The project is being piloted with Para West Adult Campus during 2002, where students will be provided with specialised support and counselling. Students who complete the program receive a statement of completion, equivalent to the Advanced Certificate in University Studies, and a moderated score is accepted as an alternative to the STAT test for mature age entry to the University. UniSA-PAL is not subjected to HECS.

The University won funding from the Department of Education, Training and Youth Affairs to host a Regional Disability Liaison Officer position for South Australia, one of only nine positions across Australia. The position works across the University, TAFE, State government, and employment sectors and promotes post-secondary education, training and employment opportunities for people with disabilities.

Participation in the outreach seminar Come 'n Try Tertiary Study, for students with a disability, was significantly increased this year. More than 170 secondary students with disabilities took the opportunity to experience a day at University or TAFE and to consider how their needs would be catered for.

A variety of workshops were offered through the Women and Leadership Program, attracting a greater number of participants than previous years. Financial seminars for women were offered in collaboration with NAB. These were provided free-of-charge to women external to the University community.

The Equity Training and Development program was presented for the first time in 2001. It offers a combination of scheduled workshops and tailored programs available on request.

A Consultant: Employment Schemes was appointed in 2001 to increase the number of Indigenous staff within the University in an effort to achieve UniSA's target of 2% Indigenous staff by 2005. In addition, an Equity Officer was appointed to increase the number of young people employed within the University.

### 2001 initiatives

The Equity Plan and Indigenous Education Committee continued to guide planning in equity within the University, and for 2001 had a particular focus on the equitable access to, and use of, information technologies.

UniSA continued to perform well against national averages on most equity performance indicators, particularly for under 24 year old low SES and isolated students. Improvements occurred in the following areas:

Extensive school visits by the USANET Special Access Scheme Project Officer resulted in the continued increase in enrolments in 2001 from targeted schools. In particular there was an increase in the rural USANET enrolment due to the expansion of the Scheme to schools over the South Australian border. Links with some northern-suburb USANET schools were strengthened through the exploration of collaborative activities including the support of a pilot Senior College Program for Year 12 students and an on-campus program for Year 10 students.

An analysis of Indigenous student participation and success revealed the continued increase in the participation of Indigenous students in programs offered by Schools other than the Unaipon School. There was also a welcomed increase in non-Indigenous students enrolled in Indigenous perspectives courses. 15 of the University's undergraduate programs now incorporate compulsory courses in Indigenous issues. Two new double degrees commenced across the Unaipon School and the School of Social Work and Social Policy to further aid the increasing participation of Indigenous students.

There was a significant increase in the employment of Indigenous staff with 22 members of staff now working within the College of Indigenous Education and Research.

## Organisational culture

The concept of organisational culture has emerged in recent years as a way of thinking about an organisation's climate and the forces that bind its community together around common purposes, enabling it to respond effectively to change.

2001 was a particularly important year for the University. The occasion of UniSA's Tenth Anniversary offered a unique opportunity for the institution to join with its community of staff, friends and alumni to reflect on the identity we had created together, to acknowledge our successes and celebrate the University's achievements. The initiation of a series of Staff Service Awards, for 10 and 25 years of service, also provided a further opportunity to celebrate the contribution of the many people who had worked to create the University of South Australia.

### Tenth Anniversary celebrations

UniSA celebrated its Tenth Birthday in a variety of ways throughout 2001, marked by several major events, ceremonies and publications. Celebrations were launched in April at a garden party on the lawns of Government House. More than 800 staff joined with distinguished guests to celebrate ten years of University achievements with the Governor, Sir Eric Neil.

Major social events to mark the Anniversary included a:

- Family Day - held at the South Australian Museum in May, attended by over 700 staff and their families
- Council Dinner - for all past and present members of the Council - approximately 120 people attended the evening at Ayres House
- Newsflash Friends of UniSA Dinner - attracted 450 corporate and community friends of the University to the Adelaide Convention Centre in August
- Tenth Birthday Open Day - attracted approximately 10 000 people to the University
- Brain Drain 2 Quiz Night - held at Magill campus, attended by 300 staff and friends in September.

The calendar of events was concluded in spectacular style with a Staff Revue, Survivors, held in late November. Survivors was exceptionally well received by the 700 or so staff and friends attending the event at the Royalty Theatre. The University donated the proceeds of the evening (\$7 000) to The Smith Family 'Learning for Life' program.

### Staff service awards

In 2001, the University introduced a new service award program for long serving staff. Divisions and portfolios hosted individual celebrations throughout the year for staff employed by UniSA and its antecedent institutions for periods of between 10 and 24 years. A major University-wide celebration was held at Brookman Hall in June for staff members who had service periods of 25 years or more. 150 staff members and their families attended this event, at which the Chancellor and Vice Chancellor expressed their gratitude to staff receiving awards for their loyalty and the contributions they had made to UniSA's success.

### Other awards for achievement

Special awards were presented to staff during the year for outstanding community service, innovative work and excellence in practice.

### Contribution to cultural and public life

The University hosted a series of lectures for staff and the wider community, including:

- Working Links seminars for business leaders
- a lecture by Hon Barry Jones AO
- Successful Ageing Seminars (sponsored by National Pharmacies) on quality of life issues
- Weaving the Social Fabric lecture series covering major issues shaping our lives, learning and work in 21st century Australia
- a forum, hosted by the Art Museum with speakers Vivonne Thwaites, Dr Jean Duruz, Ms Kay Lawrence and Ms Mary Eagle
- The Annual Hawke Lecture, presented by Professor Emeritus Sir Gustav Nossal on the subject, 'Medical Science and Human Goals: a challenge for Australian Research'
- The 2001 Unaipon Lecture, with the Chair of ATSIC, Geoff Clarke, speaking on 'Treaty, Terra Nullius and Terra Nullified' in October
- Visions for a Nation, a joint presentation of the Hawke Centre and the Centenary of Federation
- public lectures by Dr Jose Ramos-Horta, Ehud Ya'ari and Beatrix Campbell, hosted by the Hawke Institute.

The UniSA Art Museum continued to contribute to the cultural life of the University community through several noteworthy exhibitions.



### Organisational culture and change

The University co-ordinated a series of initiatives designed to foster innovation, build our intellectual capital, use our knowledge more intelligently and encourage an organisational culture that embraces change.

Among these was the University-wide Organisational Learning Project. As part of the project, a series of contextual awareness raising seminars and other development activities for University staff were organised with a view to:

- helping to connect professional development activities for staff with wider corporate and strategic goals
- contributing to building shared understanding of the institution's strategic intent
- contributing to the development of sustainable communities of practice within the University
- assisting in building organisational and workforce capabilities by encouraging greater reflection on issues of leadership, collaboration and networking
- contributing to activities that strengthen and deepen the University's management culture.

The Division of Business and Enterprise commenced a long-range project to redefine the working culture of the Division. The project was initiated by the Divisional Advisory Committee and has involved large numbers of academic and general staff from across the Division throughout 2001.

### Improving communication

In 2001, the Marketing and Development Unit reviewed its range of publications and approach to internal communication. One outcome from the review was a new approach to web-based communication within the University. The development of a special website dedicated to Tenth Anniversary celebrations accompanied the introduction of *UniSA News* online.

The University also improved the communication of its approach to quality assurance, improvement and strategic innovation through the development of a comprehensive quality website.



## Resources

### Customer focus

The refurbishment program of high usage teaching facilities continued during 2001. The process included end user surveys of staff and students and consultation with Campus Management Groups and Campus Advisory Groups. AV equipment in tutorial rooms underwent considerable improvement, including the piloting of dedicated PCs in lecture theatres, in consultation with staff and the Divisional Teaching and Learning Committees. This exercise was preparation for stage two of the AV upgrade program to be carried out in 2002.

Additional 'computer barns' were established at Magill and City West during the year. In addition, 'Walk Up' computers were installed in a variety of locations across campuses, including the newly refurbished cafeteria at Mawson Lakes.

Campus Advisory and Campus Management Groups met regularly during the year to improve campus services and to continue to develop a shared vision and asset plan for each of the metropolitan campuses. Continuous improvements were made in the services provided by Campus Central including the introduction of Medici training for all staff as part of the seamless counter approach to services.

### Strategic focus

Blueprint 2005 Capital Works Program planning processes required considerable consultation with, and support from, various Schools and Divisional staff. The year culminated in the short listing of principal consultants (architectural practices) for larger capital projects (over \$5m) to ensure principal and sub consultants are appointed by the end of February 2005.

A Campus Master Plan was developed for City West and Urban Development Guidelines prepared for the City East Campus. Magill and Mawson Lakes Master Planning Reference Groups will begin their review and consultation process early in 2002.

The University undertook a strategic audit of its metropolitan campuses for energy management as part of the Commonwealth Greenhouse Challenge Program to reduce greenhouse emissions.

### Support for the University's core functions

In 2001, extensive consultation and planning for the period 2002 -2004 occurred to coordinate existing programs with the Blueprint 2005 projects. As a result of growth in onshore and offshore international student programs, a number of accommodation strategies were implemented during 2001, including the leasing and refurbishment of commercial premises at 27/29 North Terrace for the School of Marketing.

The University continued to develop agreements with the private sector to expand the provision of student accommodation in the City of Adelaide.

To improve AV support to staff and visiting academics, phones were installed in all general teaching spaces across the University.

### Human resources

The Property and Services Units each restructured in order to be better prepared for managing campus services and facilities effectively during the implementation of the Blueprint 2005 Capital Works Program.

An Enterprise Agreement was successfully negotiated for Security and Grounds staff during the year.



## Awards and achievements

### Chancellor's Awards for Community Service

#### Individual winners:

Associate Professor Nicholas Procter from the School of Nursing and Midwifery, in partnership with non-English speaking background (NESB) communities, mainstream mental health workers and refugees and asylum seekers released from mandatory detention centres for his project, Community Education in Transcultural Mental Health.

Ms Helen Bradley from the School of Nursing and Midwifery, in partnership with the Nganampa Health Council for her Aboriginal Health Worker Field Visits Project.

#### Team winners:

South Australian Solar Car Consortium from the Schools of Advanced Mechanical and Manufacturing Engineering, Electrical and Information Engineering and Mathematics, in partnership with Fremont-Elizabeth City High School, Seaton High School and the Regency Institute of TAFE. Team members: (staff) Peter Murphy, Peter Pudney, Wasim Saman, Raelene Wendelborn, Alan Young and (students) Neil Coffey, Mark Ford, Nigel Fox, Gregg Hewton, Gregory Indriksons, Chia Hui Lee and Jayaram Selvaraju.

Jim Dollman and Associate Professor Kevin Norton from the School of Physical Education, Exercise and Sports Science, in partnership with the Salisbury City Council for their Games Out of School Hours (GOSH) Research Project.

Experiences and Perceptions of Volunteering in Indigenous and NESB Communities Team from the School of Social Work and Social Policy and the Unaipon School, in partnership with the Department of State Aboriginal Affairs, the South Australian Multicultural and Ethnic Affairs Commission and Volunteering SA. Team members: Harry Savelsberg, Deirdre Tedmanson, Lorraine Kerr and Sydney Sparrow.

The Polymer Science Sector Team from the Ian Wark Research Institute in partnership with senior secondary schools and CSIRO.

Team members: Eric Capelle, Dr Namita Roy-Choudhury, Dr Stephen Clarke, Dr Naba Dutta, Nguyen Duc Tran, Chris Embery, Yan Gao, Christina Koutlakis, Dr Milena Ginic-Markovic, Associate Professor Jani Matisons, Rosalind Ma, Nov Markovic, Maria Provatas, Kim Anh Thi Ngyuyen, Edgar Torres and Dr Leanne Britcher.

Mount Gambier Nursing Project Team from Nursing, Whyalla, in partnership with the South East Regional Development Board and the South East Institute of TAFE. Team members: Grant Sharples, Joy Penman and Sharon Kilpatrick.

### Vice Chancellor's Awards for General Staff Excellence

#### Individual winners:

Nerida Ewart, Coordinator: Marketing and Alumni, Division of Business and Enterprise  
Erma Ranieri, Client Services: Team Leader, Human Resources  
Sandra Ray, Executive Officer, Ian Wark Research Institute  
Jason Watson, Legal Officer, Research Services

#### Team winners:

Brain Drain 1 & 2: Team members: Gerry Clarke, Yvonne Clarke, Shona Hughes, Chris Gill, Kathy Dodds, Sheila Bailey, Kylie Pinnington, Rosemary Luke, Jurius Wulfius and Dianne Van Eck

Client Services, ITSU & Property Unit Project Managers: Team members: Mike Ashley, Matt Eden, Son Chhoy, David Higgs, Ben Maddock, Francis Chan, Peter Hastings, Michael Heath, Michael Ayliffe, Ray Stradwick, Henry Sukhinin, Sandro Parisi, Ronan Bernard, Mark Lovell, Jeannie Pope, Christina Coleiro and Sara Lynds

Division of BUE IT: Team members: Ann Thomas, Shawn Carpenter, Troy Schuster, Angelo Pace, Rebecca Wang, Martin Whiteside and Damien Haese

Information Search Methods Project: Team members: Sherron Hunter, Carole Gibbs, Stephen Leahy and Irene Duskatsch

### Vice Chancellor's Awards for Innovation, Product Improvement and process improvement

The Awards for Innovation, a new award established in 2001, are part of the University's commitment to innovation. They acknowledge the creative and leading ideas of UniSA's staff.

#### Team winners:

Learning Advisors, Learning Connection, Online Learning Support Workshops: The workshops are interactive online guides detailing the academic processes students need to follow to complete an assigned task and are a national benchmark for learning support in the online environment. The virtual experience provides learning support at a time, in a place, in a way and at a pace that suit students as individual learners. Team members: Kerry O'Regan, Bev Kokkinn, Monica Berk, Rita Frangiosa, Virginia Hussin, Helen Johnston, Debra King, and Marie Stevenson from Learning Connection.

Turbo Coding Technology (TCT) Team, Iterative Satellite Receiver Project: This project is a state-of-the-art, satellite innovation that combines advances in coding and modem technology increasing broad band data rates and performance over wireless channels. It provides dramatic improvements in terms of data throughput, frequency efficiency and cost, and allows improved access for the delivery of services to regional and remote locations. The TCT team achievements on the Iterative Satellite Receiver represent the world's best known performance of a high speed satellite unit, with core technologies already having been thoroughly tested. Team members: Adrian Barbulescu, Craig Burnet, Colin Biggs, Marc Mirza and Ricky Luppino.



## 2001 Supported Academic Teacher Awards

### Teaching Excellence Awards

Rachel Hurst and Jane Lawrence, Louis Laybourne Smith School of Architecture & Design, Division of Education, Arts and Social Sciences

Associate Professor Karen Grimmer and Associate Professor Marie Williams, School of Physiotherapy, Division of Health Sciences

### Supported Academic Teacher Awards

#### Division of Business and Enterprise

Stan Astachnowicz, School of Accounting and Information Systems

John Medlin, School of Accounting and Information Systems

Kym Thorne, School of Accounting and Information Systems

#### Division of Education, Arts and Social Sciences

David Badenoch, School of Education(Magill)

Professor Marjory Ebbeck, de Lissa Institute of Early Childhood and Family Studies

Rob Macpherson, School of Communication, Information and New Media

#### Division of Health Sciences

Wendy Piltz, School of Physical Education, Exercise and Sports Studies

The SPERRS Team (Associate Professor Esther May, Professor Julianne Cheek,

Associate Professor Roger Windle, Associate Professor Bernie Hughes, Dr Eimear Muir-Cochrane, Trish McLaine)

#### Division of Information Technology, Engineering and the Environment

Dr S Mahfuz Aziz, School of Electrical and Information Engineering

Michael Harris, Systems Engineering and Evaluation Centre

Robin Lister, School of Environmental and Recreation Management

Jan Machotka, School of Electrical and Information Engineering

Nikolaos Mermelengas, School of Electrical and Information Engineering

#### Whyalla Campus

Grant Sharples, Lecturer in Nursing

## USASA Postgraduate Excellence Awards

Lecturer of the Year: William Moore, School of International Business (Lecturers in School of Social Work and Social Policy), Division of Business and Enterprise

General Staff Person of the Year: Anthony Duffy, School of Electrical and Information Engineering, Division of Information Technology, Engineering and the Environment

Supervisor of the Year: Professor Trica Vilkinas, International Centre For Management and Organisational Effectiveness and School of Accounting and Information Systems, Division of Business and Enterprise

Program Director of the Year: David Rivett, School of Accounting and Information Systems, Division of Business and Enterprise

## 2001 Teaching Grant Recipients

Professor Lindsay Barker, Peter Jacobs: 'Adelaide Health Club' simulation for virtual case studies in management education

Professor Julianne Cheek: University-wide structured research education program

Ms Zorica Nedic, Jan Machotka, Associate Professor Lakhmi Jain, Dr David Cropley: Netlab a web-based electronic learning resource for engineering students

## Other awards and achievements

Professor Malcolm Smith from the School of Accounting and Information Systems was admitted to membership of the Institute for Learning and Teaching in Higher Education.

Jo Hanisch from the School of Accounting and Information Systems received the best paper award at the Information Resources Management Association 2001 conference in Toronto for her paper: *Requirements Engineering in Virtual Software Development: Achieving Balance*.

Tony Spawton from the Australian Centre for Wine Business Management was elected President: Market Analysis and Networks Commission of the International Office of Wine and Vine, and was also appointed to the Scientific and Technical Committee of the OIV.

The Wine Marketing Research Group was confirmed as a World Centre of Excellence for the study of wine consumer and purchase behaviour by the Scientific and Technical Committee of the International Office of Wine and Vine.

Rosemary McKay from the School of Marketing was elected Vice President of the Australian Institute of International Affairs SA.

Dr Max Bessell from the School of Accounting and Information Systems was appointed to the Council of the Institute of Chartered Accountants in Australia for SA/NT.

Associate Professor Geoff Page from the School of International Business was elected President and Treasurer for Pacific Rim Real Estate Society.

The University (through Associate Professor Michael Heng from the School of Accounting and Information Systems) successfully tendered for the Pacific Asia Conference on Information Systems in 2003.

The Students in Free Enterprise UniSA Team contested the SIFE Australia National Competition in Sydney. They were named the First Runners-Up and received the Heinz-Wattie trophy and \$2 500 in prize money. John Thornton from the School of International Business won the Woolworths Leadership Award for Mentor of the Year.

The Louis Laybourne Smith School of Architecture and Design won the Walter Burley Griffin Award for Urban Design for their Broken Hill Line of Lode Project.

Associate Professors Martin Nakata and Mary Ann Bin-Sallik were members of the Indigenous Organising Committee of the successful United Nations Conference of Indigenous Peoples of Canada, Aotearoa/New Zealand, Hawaii. The draft report, containing over fifty recommendations concerning racial discrimination against Indigenous Peoples was used to inform the United Nations World Conference on Racism held in South Africa.

During a ceremony in Canberra on Australia Day, Professor Freda Briggs from the de Lissa Institute of Childhood and Family Studies became one of the Prime Minister's 30 national ambassadors for the recognition of women and the spokesperson for South Australia. Professor Briggs was Senior Australian of the Year for 2000 –2001.

Associate Professor Karen Grimmer and Steve Milanese from the Centre for Allied Health Research won the Australian Health Industry Research and Development Award for 2001 for its research into load carrying by adolescents, resulting in the development of the Physiopak backpack. The award, given to a 'researcher or team of researchers considered to have made the most outstanding advancement in research during 2001 within the health industry', was presented by the Hon Dean Brown, the then Deputy Premier and Minister for Human Services.

The University of South Australia and St John Ambulance Australia were winners of the Post-Disaster Category, Voluntary Stream, in the Australian Safer Communities Awards 2001 for their collaborative Mass Gathering First Aid Project. Dr Paul Arbon from the Schools of Nursing and Midwifery played a principle role in the project which involved the development of a model which identifies risk factors in a crowd environment and predicts the number of patients likely to need attention.

Ms Felicity Mayfield from the School of Pharmaceutical, Molecular and Biomedical Sciences was awarded (posthumously) the SA Great Regions Award - Health Category for Eyre Peninsula. As a rural pharmacist in the Eyre Peninsula region, Felicity was responsible for improving the quality use of medicines in communities; providing professional support networks to community pharmacists; encouraging the retention of existing pharmacy services and attracting new pharmacists to rural practice; and providing education and training to pharmacists, health professionals and Aboriginal Health Workers in the region.

Dr Paul Arbon from the School of Nursing and Midwifery was appointed Chief Commissioner of St John Ambulance Australia from June 2002.

Associate Professor Marie Williams from the School of Physiotherapy and Robert Feldman from the University of the Sciences in Philadelphia won the Patricia Leahy Award for the most innovative teaching project offered by the Teaching and Learning Centre at the University of the Sciences in Philadelphia

Professor David Wilkinson from the South Australian Centre for Rural and Remote Health was appointed to the Board of beyondblue, the National Depression Initiative. The Board is chaired by the Hon Jeff Kennett.

Membership to the Royal College of Physicians (London) was bestowed on Professor David Wilkinson (SACRRH) without examination, in recognition of his 'exceptionally distinguished contributions in the field of medicine.'

Associate Professor Nicholas Proctor was accepted into the 12 month Fellowship with the Governor's Leadership Foundation, commencing in February 2002.

Kate Provis from the School of Physiotherapy was presented with the 2000 University of SA Alumni Association Gold Medal by the Deputy Chancellor at the Graduation Ceremony held in April.

Associate Professor Kevin McDermott, Associate Professor Ozdemir Gol and Professor Andrew Nafalski from the School of Electrical and Information Engineering were awarded the 2001 UICEE Silver Award for a distinguished contribution in delivering an outstanding paper at the 4th UNESCO International Centre for Engineering Education annual conference on Engineering Education in Bangkok. This was one of three papers they delivered at the conference.

Associate Professor George Zillante from the School of Geoinformatics, Planning and Building was appointed to the American Council for Construction Education (ACCE) Register of Visitors and will be invited to accredit construction courses throughout the USA. He was also appointed a Corporate member of the Royal Institute of Chartered Surveyors (RICS) London.

Professor Stephen Hamnett from the Centre for Building and Planning Studies was appointed a part-time Commissioner of the Environment, Resources and Development Court in South Australia. He has also been appointed an external examiner for the Master of Science (Urban Planning) at the University of Hong Kong for 2001-2003.

Professor Lee Luong from the School of Advanced Manufacturing and Mechanical Engineering was invited as an external examiner for the Master of Science (Smart Product Design) at the Nanyang Technological University in Singapore.

Associate Professor John Fielke from the School of Advanced Manufacturing and Mechanical Engineering was appointed to the South Australian Government's Field Crops Industry Development Board. The Board provides advice to the Minister for Primary Industries and Resources regarding the development of field crop industries to meet future market and growth opportunities.

Delene Weber from the School of Environmental Recreation and Management was appointed Deputy Presiding Member of the Wilderness Advisory Committee for a period of two years.

Professor Robin King from the Division of Information Technology, Engineering and the Environment served as a member of the Australian Research Council's Expert Advisory Committee on Mathematics and Communications Sciences.

Paul Kay, a final year student of the School of Electrical and Information Engineering was the State Winner of a Siemens Prize for Innovation for his project *Investigation into RF Propagation Variations*.

Anthony Behn, a 2000 Mechanical and Manufacturing Engineering graduate, won the 2001 Wal Reid prize for the best final year project in Australia and New Zealand in the Renewable Energy area by the Australian and New Zealand Energy Society for his project: *Cooling of Solar Modules*.

A Certificate of Recognition was awarded to the University by the Human Rights and Equal Opportunity Commission in recognition 'of their commitment to ensuring equitable access to their services for people with disabilities by lodging an Action Plan under the *Disability Discrimination Act (1992)*'.

The South Australia Government awarded the University of South Australia with a Certificate of Recognition for providing Safe Houses on campuses.

### Senior appointments and promotions

The following senior promotions and appointments were approved by Council in 2001:

#### Associate Professor

Kay Lawrence  
Dr Lorraine Sheppard  
Dr David Panton  
Dr David Davey  
Dr Bernard Hughes  
Dr Marie Williams  
Dr Ross McKinnon

#### Professor

Associate Professor Jennifer McKay  
Associate Professor Kevin Norton  
Associate Professor Lakhmi Jain  
Associate Professor Martin Nakata

#### Research Professor

Associate Professor Janis Matisons

#### Appointed to Senior Management Group:

Paul Beard  
Mark Hender

#### Appointed as Professor and Dean: Whyalla Campus

Professor Scott Bowman

## Doctors and Emeritus Professors of the University

### ***The University conferred the award of Doctor of the University on the eminent Australian:***

**Justice Michael Kirby, AC, CMG** in recognition of his support for and achievements in human rights. His proactive position with regard to human rights is directly affiliated with the principles of the University in support of access, equity and inclusiveness.

### ***The title of 'Emeritus Professor' was awarded to two former members of staff:***

**Professor Michael Miller** in recognition of his contribution to the University. This has been demonstrated by his energy and enthusiasm while establishing the Institute for Telecommunications Research as a centre of excellence in research, education and commercialisation. Professor Miller has a national and international profile and has been acknowledged previously by the conferral of several significant awards, including the MA Sargent Medal in 1999, an award presented annually by the Board of the College of Electrical Engineers (IE Aust) to an outstanding engineer.

**Professor Lloyd Samson** in recognition of his substantial contribution to the University and in particular to the School of Pharmacy and Medical Sciences. His national and international profile is indicative of his professional leadership and energy. His commitment is demonstrated by his role as leader of the Centre for Pharmaceutical Research, a significant research group. Professor Samson has received several significant awards during his career, including an Honorary Fellowship of the Pharmaceutical Society of Australia.

## Statement of financial performance for the year ended 31 December 2001

	Consolidated		University	
	2001 \$'000	2000 \$'000	2001 \$'000	2000 \$'000
<b>Revenue</b>				
Commonwealth government financial assistance	111 080	105 792	110 981	105 792
South Australian government financial assistance	2 074	2 276	2 074	2 276
Higher Education Contribution Scheme:				
• Student contributions	8 528	8 451	8 528	8 451
• Commonwealth contributions	52 906	52 085	52 906	52 085
Fees and charges	57 785	45 983	51 149	40 344
Investment income	2 661	2 813	3 569	2 883
Royalties, trademarks and licenses	535	158	509	158
Consultancy and contract research	14 002	11 666	14 002	12 246
Other revenue	4 814	3 723	4 155	3 520
	<b>254 385</b>	<b>232 947</b>	<b>247 873</b>	<b>227 755</b>
Superannuation:				
• Commonwealth supplementation	20 164	17 437	20 164	17 437
• Deferred government contributions	500	(23 600)	500	(23 600)
<b>Total revenue from ordinary activities</b>	<b>275 049</b>	<b>226 784</b>	<b>268 537</b>	<b>221 592</b>
<b>Expenses</b>				
Employee benefits	153 975	143 807	151 087	141 309
Depreciation and amortisation	18 779	19 251	18 630	19 215
Buildings and grounds	12 182	10 222	12 182	9 935
Bad and doubtful debts	617	197	553	197
Net losses on revaluation of assets	1 210	-	1 210	-
Other expenses	58 504	54 413	56 750	52 942
Borrowing cost expense	2 230	2 679	2 230	2 563
	<b>247 497</b>	<b>230 569</b>	<b>242 642</b>	<b>226 161</b>
Superannuation:				
• Commonwealth supplemented	20 164	17 437	20 164	17 437
• Deferred employee benefits	500	(23 600)	500	(23 600)
<b>Total expenses from ordinary activities</b>	<b>268 161</b>	<b>224 406</b>	<b>263 306</b>	<b>219 998</b>
<b>Operating result from ordinary activities</b>	<b>6 888</b>	<b>2 378</b>	<b>5 231</b>	<b>1 594</b>
Direct credits or debits to equity:				
• Asset revaluation reserves	(3 339)	(25 970)	(3 491)	(25 970)
<b>Total revenue, expenses and valuation adjustments attributed to the parent entity and recognised directly in equity</b>	<b>(3 339)</b>	<b>(25 970)</b>	<b>(3 491)</b>	<b>(25 970)</b>
<b>Total changes in equity other than those resulting from transactions with owners as owners</b>	<b>3 549</b>	<b>(23 592)</b>	<b>1 740</b>	<b>(24 376)</b>

## Statement of financial position as at 31 December 2001

	Consolidated		University	
	2001 \$'000	2000 \$'000	2001 \$'000	2000 \$'000
<b>Current assets</b>				
Cash	5 627	2 353	3 636	2 115
Receivables	11 117	10 236	10 147	9 819
Investments	52 045	46 395	50 379	45 389
Deferred government superannuation contribution	22 900	22 000	22 900	22 000
Other	2 203	1 768	2 188	1 765
<b>Total current assets</b>	<b>93 892</b>	<b>82 752</b>	<b>89 250</b>	<b>81 088</b>
<b>Non-current assets</b>				
Investments	7 321	6 826	7 000	6 529
Property, plant and equipment	400 045	412 044	399 756	411 687
Deferred government superannuation contribution	238 100	238 500	238 100	238 500
Other	-	-	-	-
<b>Total non-current assets</b>	<b>645 466</b>	<b>657 370</b>	<b>644 856</b>	<b>656 716</b>
<b>Total assets</b>	<b>739 358</b>	<b>740 122</b>	<b>734 106</b>	<b>737 804</b>
<b>Current liabilities</b>				
Accounts payable	12 567	13 720	12 424	13 253
Borrowings	-	5 113	-	5 113
Provision for State superannuation	22 900	22 000	22 900	22 000
Other provisions	12 866	12 194	12 725	12 071
Other	20 367	20 524	20 468	22 056
<b>Total current liabilities</b>	<b>68 700</b>	<b>73 551</b>	<b>68 517</b>	<b>74 493</b>
<b>Non-current liabilities</b>				
Accounts payable	3 229	2 311	3 229	2 311
Borrowings	15 050	15 050	15 050	15 050
Provision for State superannuation	238 100	238 500	238 100	238 500
Other provisions	17 130	16 658	17 130	16 658
Other	1 319	1 771	1 319	1 771
<b>Total non-current liabilities</b>	<b>274 828</b>	<b>274 290</b>	<b>274 828</b>	<b>274 290</b>
<b>Total liabilities</b>	<b>343 528</b>	<b>347 841</b>	<b>343 345</b>	<b>348 783</b>
<b>Net assets</b>	<b>395 830</b>	<b>392 281</b>	<b>390 761</b>	<b>389 021</b>
<b>Equity</b>				
Asset revaluation reserve	30 898	34 237	30 746	34 237
Accumulated results of operations	364 932	358 044	360 015	354 784
<b>Total equity</b>	<b>395 830</b>	<b>392 281</b>	<b>390 761</b>	<b>389 021</b>

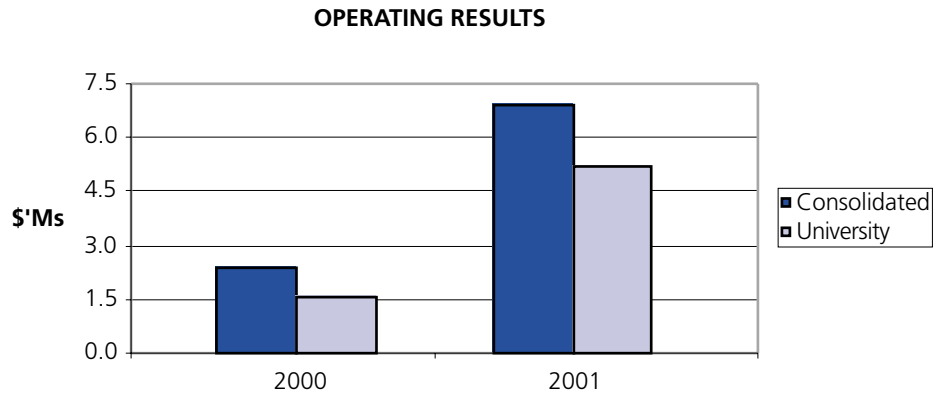
## Statement of cash flows for the year ended 31 December 2001

	Consolidated		University	
	2001 \$'000	2000 \$'000	2001 \$'000	2000 \$'000
<b>Cash flows from operating activities</b>				
Inflows:				
Financial assistance:				
• Commonwealth operating	112 599	108 730	112 599	108 730
• Other government	2 134	2 274	2 045	2 274
Higher Education Contribution Scheme:				
• HECS upfront receipts	8 528	8 451	8 528	8 451
• HECS Trust Fund	54 468	51 334	54 468	51 334
Fees and charges	50 248	40 131	50 248	40 594
Investment income	3 418	2 822	3 821	2 822
Royalties, trademarks and licenses	509	158	509	158
Consultancy and contract research	13 526	12 246	13 526	12 246
Other revenue	11 940	8 265	3 936	2 883
Superannuation supplementation	15 335	17 437	15 335	17 437
Taxes recovered	3 707	2 582	3 707	2 582
Outflows:				
Staff salaries and related expenditure	(151 465)	(141 408)	(148 443)	(138 232)
Non salary payments	(75 433)	(63 966)	(73 762)	(62 710)
Superannuation payments	(19 320)	(19 054)	(19 320)	(19 054)
Interest and other expenditure of finance paid	(2 454)	(2 884)	(2 454)	(2 768)
<b>Net cash provided by operating activities</b>	<b>27 740</b>	<b>27 118</b>	<b>24 743</b>	<b>26 747</b>
<b>Cash flows from investing activities</b>				
Inflows:				
Proceeds from sale of property, plant and equipment	720	1 595	612	1 522
Outflows:				
Payments for property plant and equipment	(13 075)	(13 766)	(12 902)	(13 571)
Payments for investments	(993)	(1 000)	(474)	(735)
<b>Net cash used in investing activities</b>	<b>(13 348)</b>	<b>(13 171)</b>	<b>(12 764)</b>	<b>(12 784)</b>
<b>Cash flows from financing activities</b>				
Outflows:				
Principal repayments under finance lease	(415)	-	(415)	-
Repayment of borrowings	(5 056)	(5 000)	(5 056)	(5 000)
<b>Net cash used in financing activities</b>	<b>(5 471)</b>	<b>(5 000)</b>	<b>(5 471)</b>	<b>(5 000)</b>
<b>Net increase/(decrease) in cash held</b>	<b>8 921</b>	<b>8 947</b>	<b>6 508</b>	<b>8 963</b>
<b>Cash at beginning of reporting period</b>	<b>48 632</b>	<b>39 685</b>	<b>47 388</b>	<b>38 425</b>
<b>Cash at end of reporting period</b>	<b>57 553</b>	<b>48 632</b>	<b>53 896</b>	<b>47 388</b>

## Operating result from ordinary activities

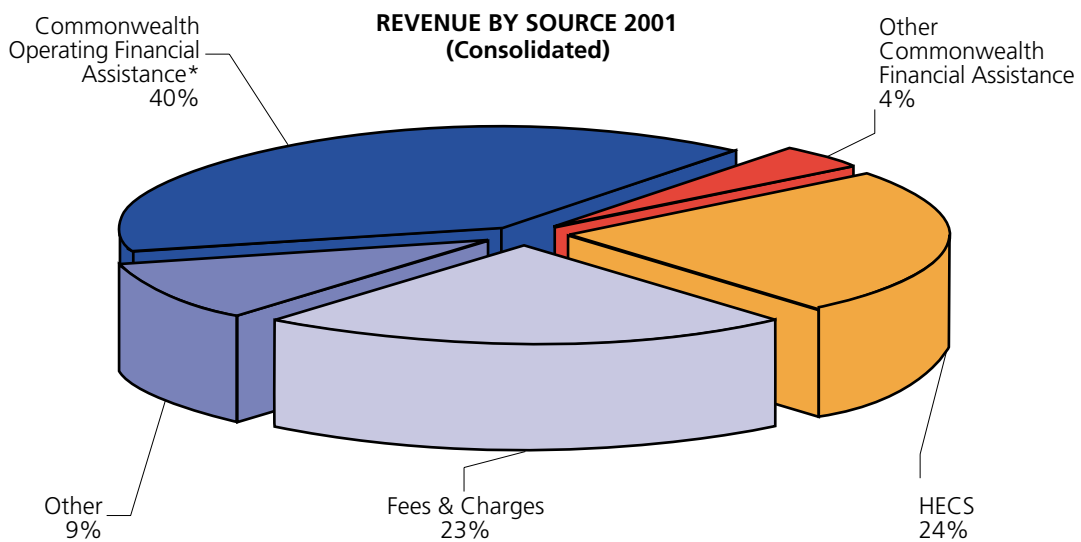
The operating result from ordinary activities for 2001 was \$6.9 million consolidated and \$5.2 million University (parent entity) (2000: \$2.4 million consolidated and \$1.6 million University).

The graph below depicts the operating results for 2001 and 2000.



## Revenue

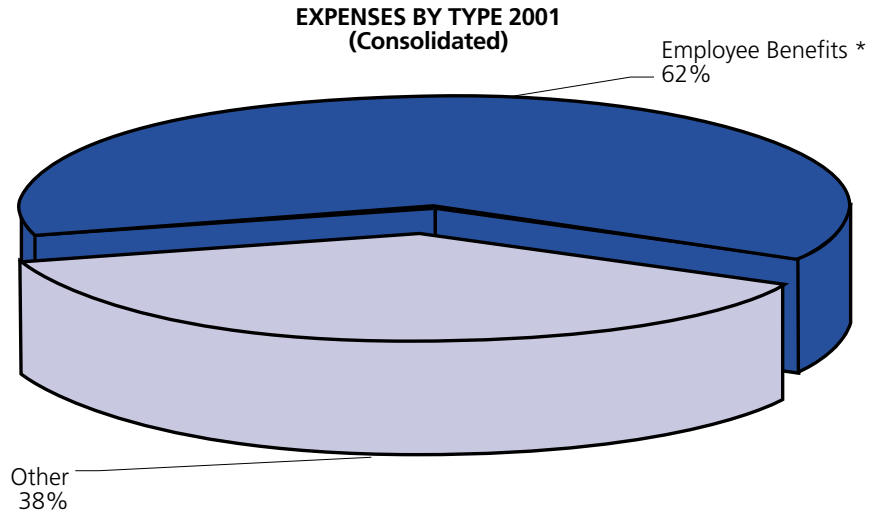
The graph below depicts the major sources of funding to the University in 2001. Commonwealth Government operating financial assistance accounts for 40% of total revenue. South Australian Government financial assistance is included under other revenue and accounts for less than 1% of total revenue.



\* Excludes Commonwealth deferred superannuation contributions and supplementary funding in relation to the SA superannuation scheme.

## Expenses

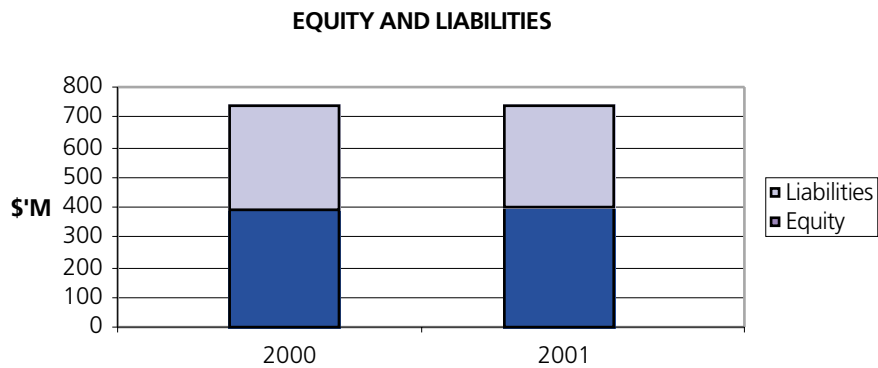
The graph below depicts expenses by major type for 2001. Employee benefits account for 62% of total expenses.



\* Excludes Commonwealth deferred superannuation contributions and supplementary funding in relation to the SA superannuation scheme.

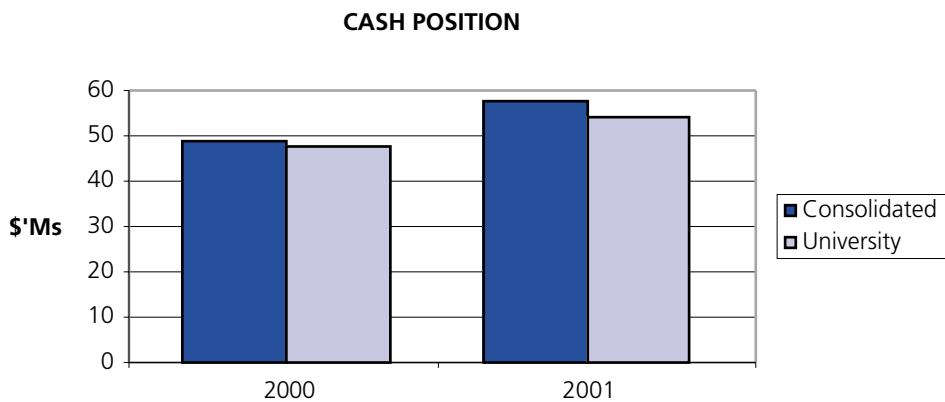
## Financial position

The graph below depicts how total University assets are funded by liabilities and equity as at 31 December 2001 and 2000.



## Cash position

The graph below depicts the cash balance as at 31 December 2001 and 2000.





# University of South Australia in brief 2001

All staff and student numbers as at 31 March 2001

	Female	Male	Total
<b>Enrollments</b>			
<b>Total number of students</b>			
Higher degree – research	420	500	920
Higher degree – course work	1 271	1 528	2 799
Other postgraduate	973	629	1 602
Undergraduate	13 226	8 159	21 385
Cross-institution and non-award	302	255	557
<b>Grand Total</b>	<b>16 192</b>	<b>11 071</b>	<b>27 263</b>

<b>Total number of international students</b>			
Offshore	2 307	1 890	4 197
Onshore	780	786	1 566
<b>Grand Total</b>	<b>3 087</b>	<b>2 676</b>	<b>5 763</b>

<b>Graduates</b>			
<b>Total completions in 2000</b>			
Higher degree – research	43	59	102
Higher degree – course work	404	447	851
Other postgraduate	431	299	730
Undergraduate	2 631	1 536	4 167
<b>Grand Total</b>	<b>3 509</b>	<b>2 341</b>	<b>5 850</b>

<b>Full and fractional time staff (full-time equivalent)</b>			
<b>Total staff</b>			
Academic – teaching only and teaching & research	303	360	663
Academic – research only	45	87	132
Academic – other function	9	9	18
Non-academic	679	431	1 110
<b>Grand Total</b>	<b>1 036</b>	<b>887</b>	<b>1 923</b>

<b>Academic units</b>			
Divisions			4
Schools			29
Research Centres			19
Research Institutes			2

# University of South Australia

GPO Box 2471, Adelaide  
South Australia 5001, Australia  
Telephone: +61 8 8302 6611  
Facsimile: +61 8 302 0669  
[www.unisa.edu.au](http://www.unisa.edu.au)

## Campuses

### City West Campus

North Terrace  
Adelaide  
South Australia 5000

### City East Campus

North Terrace  
Adelaide  
South Australia 5000

### Mawson Lakes Campus

Mawson Lakes Boulevard  
Mawson Lakes  
South Australia 5095

### Magill Campus

St Bernard's Rd  
Magill  
South Australia 5072

### Underdale Campus

Holbrooks Rd  
Underdale  
South Australia 5032

### Whyalla Campus

Nicolson Avenue  
Whyalla Norrie  
South Australia 5608  
Telephone: +61 8 8647 6111  
Facsimile: +61 8 8647 6082

CRICOS Provider Number: 00121B

\*Photographs in this publication have been provided  
by Sam Noonan, Rosey Boehm and Mark Trumbell

Designed by AdWARE Productions Studio



University of  
South Australia