



# The University of Adelaide

## Annual Report 2008

### Part One: Annual Review

## Forward: From the Chancellor

Two years ago, the University Council approved an ambitious North Terrace Development Strategy to replace ageing infrastructure across the North Terrace Campus. The aim of the Strategy is to help the University achieve its mission of being recognised internationally as a great research university and an Australian leader in research and teaching excellence. I am pleased to report that, despite the onset of the international financial crisis, the University has been able to record a good result for 2008 and that this important work has not been affected. Various refurbishment projects have been completed and work is well underway on the new nine-level Engineering Building on the Lower Level Campus. Once completed in readiness for Semester One 2010, it will undoubtedly become one of the landmark buildings on North Terrace Campus.

Graduation ceremonies are traditionally the highlights of the Academic Year. More than 5,500 students graduated this year and I had great pleasure in presiding over a number of the ceremonies in both Bonython Hall and Singapore. The graduation ceremonies in Singapore coincided with

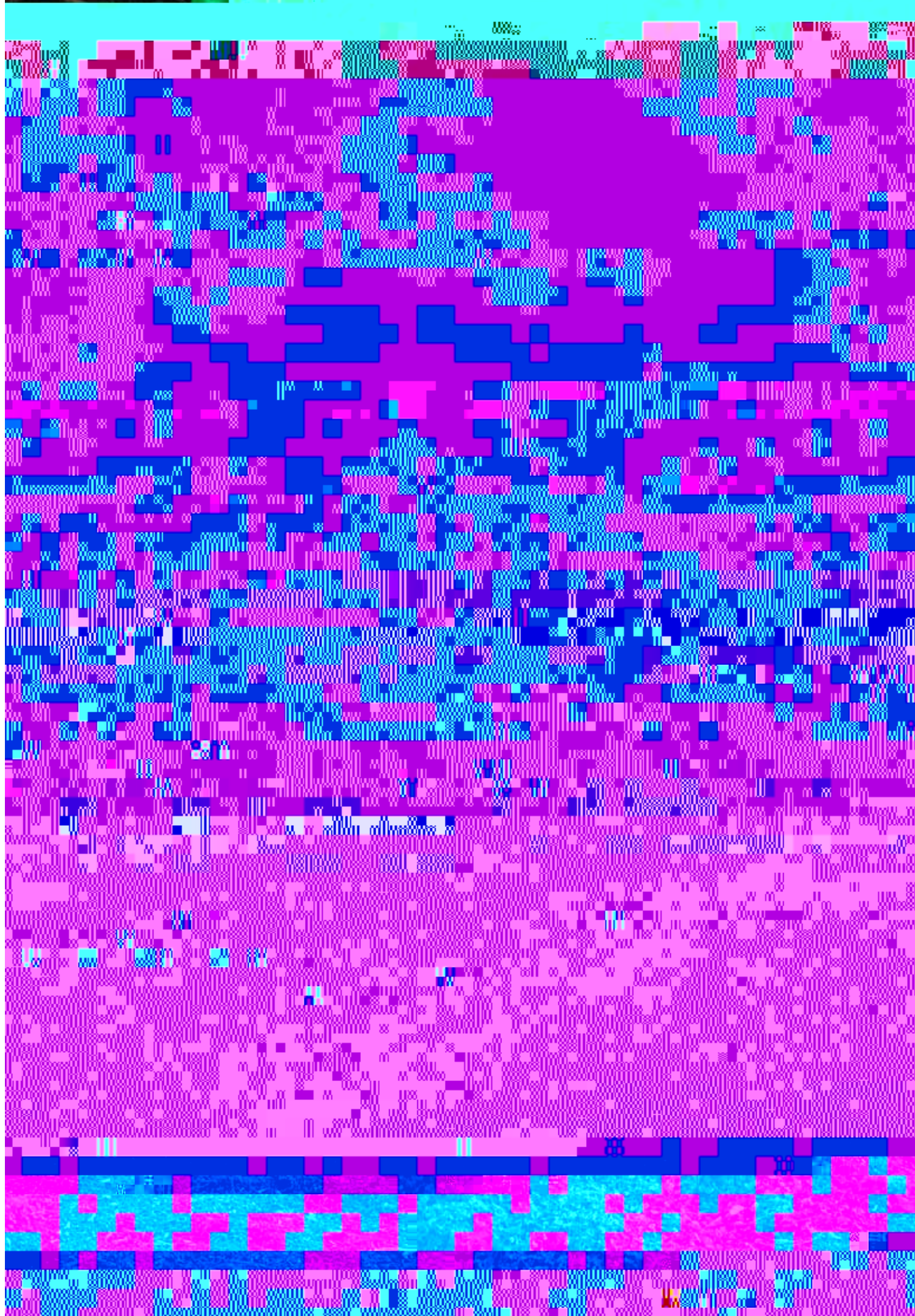
the 10<sup>th</sup> Anniversary of the Ngee Ann-Adelaide Education Centre (NAAEC). A dinner at Singapore's Orchard Hotel honoured the achievements of the University's graduates in Singapore and the vision of two of the oldest and most respected institutions in the Asia-Pacific region — the Ngee Ann Kongsi and the University of Adelaide. The Singapore-Adelaide Alumni Fund was launched that evening. The Fund is designed to provide financial assistance to undergraduate students who are citizens or permanent residents of Singapore and are studying at the University of Adelaide. The dinner also provided the perfect backdrop for the Vice-Chancellor and President to announce the renaming of NAAEC as the University of Adelaide-Singapore Campus.

In August, my wife and I had the great pleasure of representing the University at the Lincoln College dinner in honour of the late Datuk Dr Sam Abraham, held in the Convention Centre in Kuala Lumpur. Graduating in Medicine in 1959, Dr Abraham became one of Malaysia's most highly respected medical practitioners, one of Asia's most senior paediatricians

and one of the founders of paediatric practice in Malaysia.

Amongst my other engagements for the year, those of interest included: the Annual Meeting of the University Community; the 125<sup>th</sup> Anniversary Open Day at the Roseworthy Campus; the Heritage Foundation fundraising dinner; the 1958 Graduates' Golden Jubilee Celebration; the Administrative Law Students' Forum; several Research Tuesday lectures; the annual University Lateral Reserhf Adelaide. .1 m8 dCjaide. m8 u and m8\*(or Ic Tc(the T vision )K)18.6







## From the Vice-Chancellor and President

2008 was a year without precedent for those of us in higher education. We eagerly awaited details of a higher education revolution promised by the newly-elected Labor Government and were presented with two major reviews — the Cutler Review of Innovation and the Bradley Review of Australian Higher Education. They, in essence, recommended full funding of research and a student-centred model of education that allowed for more flexibility, student choice and equity considerations.

While waiting for the outcome of these reviews, we have entered the worst global recession in the past 80 years. Australia is faring much better than the majority of OECD countries, but there is no question that this global financial crisis will have implications for the University.

Despite the challenges we now face, 2008 gave us plenty of cause to celebrate — both in terms of the success of our research performance and the recognition for our teaching excellence.

We achieved record research results for 2008, exceeding our research income target of \$131 million and surpassing our research publications output of the previous year by 14%. Building on our reputation as a research-intensive university,

in 2008 the University announced the formation of four new research institutes to tackle some of the most pressing challenges facing Australia and the world — the Robinson Institute focusing on reproductive health and regenerative medicine; The Environment Institute focusing on the management of natural resources; the Institute for Mineral and Energy Resources; and the Institute for Photonics and Advanced Sensing. Another two institutes focusing on plant sciences and cancer research will soon follow.

We have continued to improve the learning experience of our students and achieved a number of significant milestones in 2008. Eight staff were recognised as among the best educators in Australia, receiving national awards for excellence in teaching and learning. The University also welcomed a positive audit from the Australian Universities Quality Agency, which commended our outstanding curriculum and innovative approaches to learning and teaching. We were also commended for our language support programs and services provided for international students.

In 2008 the Commonwealth awarded the University \$11.1 million for improved teaching and learning facilities. This

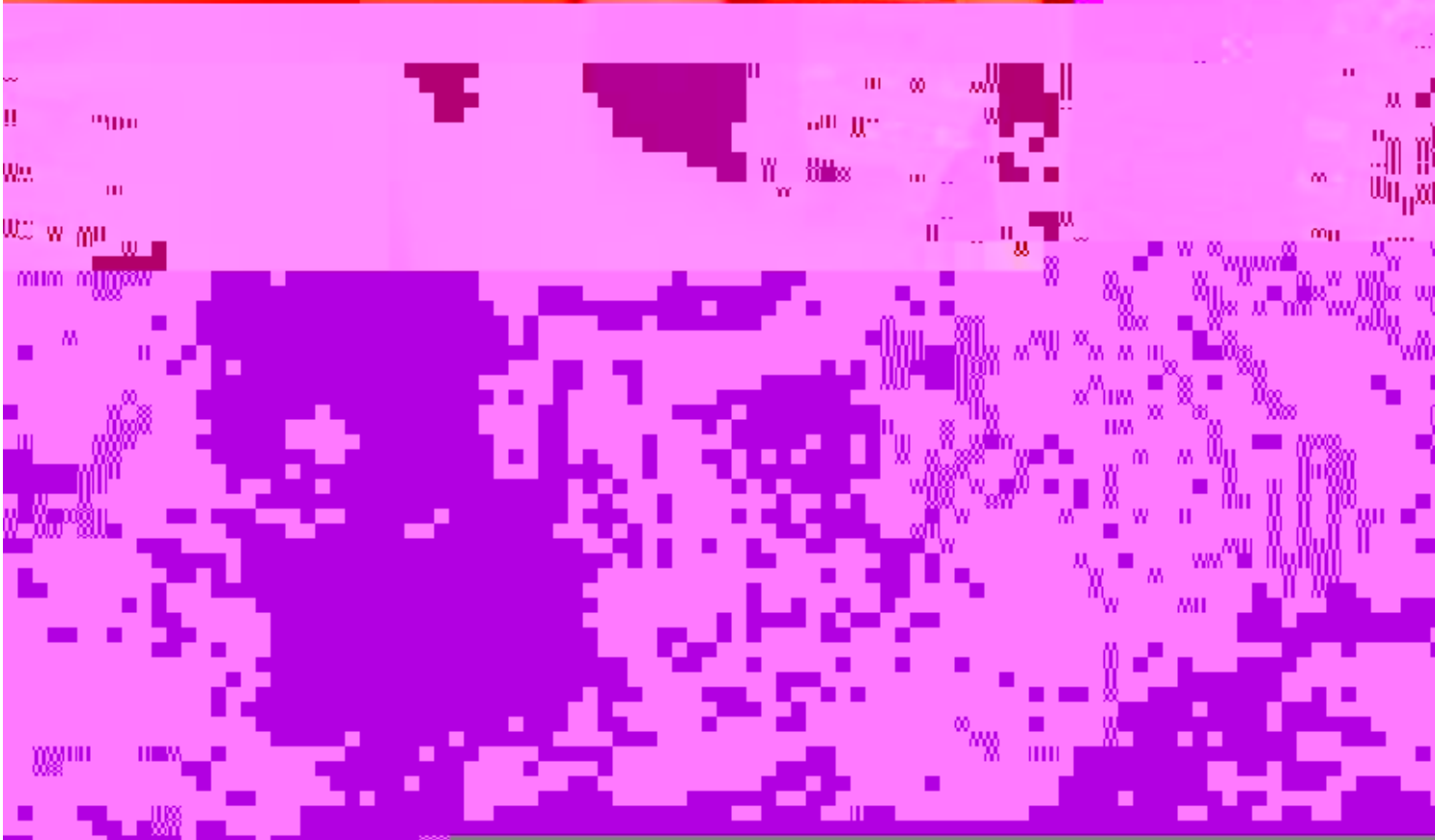
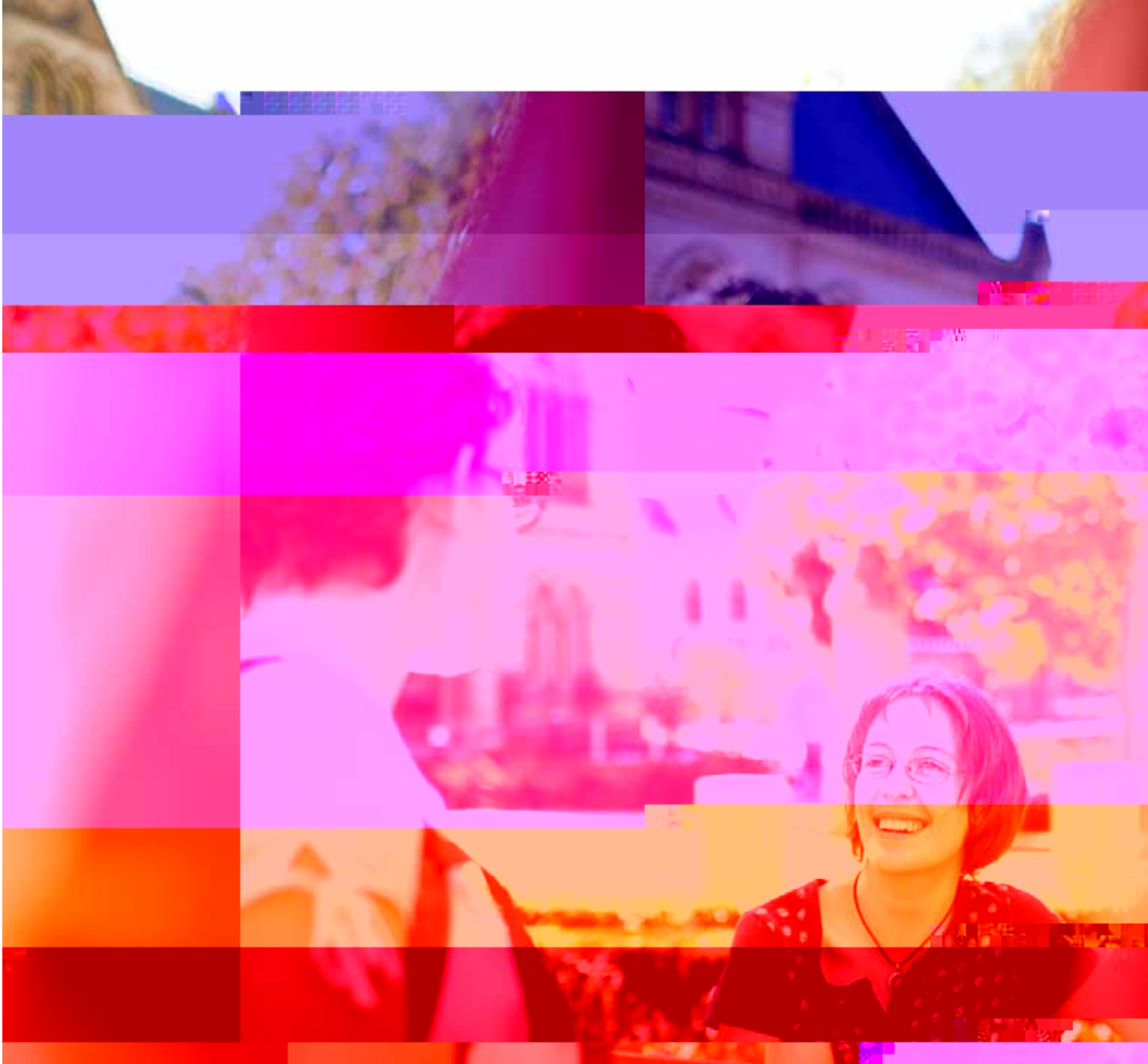
money will be spent on improving and refurbishing teaching spaces across the University's campuses.

We also forged ahead with the University's most ambitious building program in many years. Work began on a new, state-of-the-art \$100 million maths, computer and engineering building on the North Terrace Campus, to be completed in 2010. A \$28 million Wine Innovation Cluster was opened at the Waite Campus, placing Adelaide at the centre of wine and grape research in the world. The University also unveiled the most high-tech medical teaching facility South Australia has ever seen — Bio Skills SA — complete with human simulator robots and a fully integrated audiovisual system for remote videoconferencing.

These works are integral to the success of our strategies in research and education and help position us as a major international institution.

The University of Adelaide continues its consistent record of achievement, thanks to the committed efforts of both staff and students. While 2009 poses some real challenges we will continue to uphold the highest standards in research and education, producing some of this country's finest graduates.

Professor James A. McWha  
Vice-Chancellor and President



## Mission, Vision and Values

### Mission

To be recognised internationally as a great research university and an Australian leader in research and teaching excellence, committed to the positive impact we can have on the lives of our students, staff and alumni as well as the local, national and international communities.

### Vision

The University of Adelaide will build upon its tradition of innovation through high-impact research and excellent teaching across a broad range of disciplines and professions. It will be a growing, internationally focused and financially sustainable institution, enterprising in its approach to new opportunities as they arise and clear and consistent in its essential directions. It will provide a vibrant intellectual environment that will be satisfying for staff, rewarding for students, and engaging of the community, engendering a sense of pride in our contribution to contemporary society.

### Values

1. We will pursue excellence in all that we do.
2. We will act with fairness, integrity and responsibility.
3. We will respect the rights and responsibilities of freedom of inquiry and expression.
4. We will be engaged with the local, national and international communities.
5. We will encourage innovation, creativity and breadth of vision.





## 2008 at a Glance

Some highlights of 2008

### January

The world's largest search engine, Google, invests in the University's computer programs to improve students' problem-solving skills.

University hosts international cyberspace crime conference to discuss the latest developments in e-forensics.

Scientists achieve major breakthrough in discovering the causes of intellectual disability.

### February

Virologists lead a \$2-million, five-year project to develop new vaccines and explore better treatment options for hepatitis C sufferers.

Researchers make a world-first discovery that links viral infection with high blood pressure during pregnancy and pre-term birth.

Former Australian Democrats Leader, Senator Natasha Stott Despoja, appointed a Visiting Research Fellow at the University of Adelaide.

### March

For the third year in a row, the University of Adelaide is named Employer of Choice for Women.

Acclaimed novelist Eva Sallis becomes the University's writer-in-residence.

Young geologist and postdoctoral researcher Kate Selway named the 2008 Young Achiever of the Year for South Australia.

### April

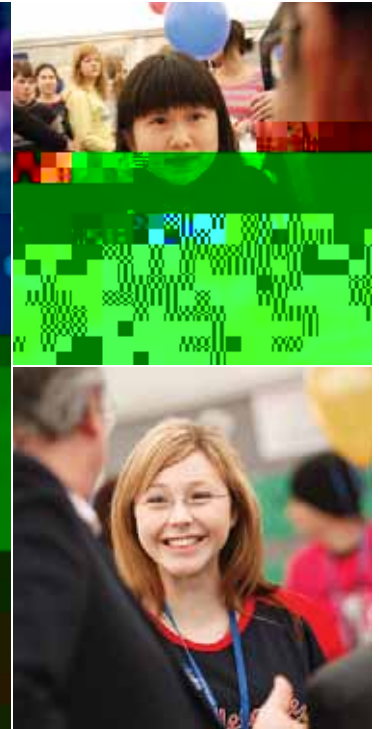
New research by the University's Centre for Neurological Diseases unlocks the links between chemical signals, brain cancer and stroke.

University celebrates historic 10<sup>th</sup> anniversary milestone with its Singapore partner, Ngee Ann Kongsi and announces plans to double student numbers in Singapore by 2010.

Photonics Professor Tanya Monro awarded prestigious Australian Research Council Federation Fellowship, boosting the University's reputation as a world leader in optical fibre research.

# 2008





## May

University collaborates on international research project to sequence entire genetic record of the platypus over the last 160 million years.

Researchers make world-first discovery that reveals mutated gene causes epilepsy and mental retardation in women.

New institute established at the University to serve the mining and energy sectors in the Asia-Pacific region.

## June

MBA student Christopher Ainsworth wins Fulbright Scholarship to the United States for research into emergency services education.

University researcher Dr Alex Johnson leads an Australian project to help address the world's biggest nutritional deficiency — lack of iron.

New \$30 million Trans-Tasman fund helps University researchers develop commercial opportunities for their work.

## July

former foreign affairs minister, Visiting Professor with the School of History and Politics.

University announces plans to build \$26 million 'super greenhouse' that will place it at the cutting edge of international plant research.

Researchers develop novel approach to treating advanced prostate cancer that has fewer side effects.

## August

A \$430,000 collaborative project involving the University will use simulators to train prospective miners in one of the world's most hazardous environments.

Eight academic staff receive national awards for Excellence in Teaching and Learning.

Five University of Adelaide researchers win SA Young Tall

## September

Adelaide medical student awarded one of the nation's top cardiovascular prizes for his research into atrial fibrillation.

University's new stem cell centre involving 180 research scientists and students gives hope for stroke victims.

Historic Bonython Hall glows pink to help launch National Breast Cancer Foundation's annual Pink Ribbon Campaign.

## October

college — Roseworthy Campus — celebrates 125<sup>th</sup> birthday with a series of events to honour its contribution to the State and nation.

University of Adelaide law graduate Benedict Coxon is named South Australia's Rhodes Scholar for 2009.

University wins \$22 million in federal funding for new medical research.

## November

Zoologist Dr Jeremy Martin leads a new national project to save endangered Tasmanian Devil from extinction.

World-leading \$28 million wine research cluster opens at the Waite Campus.

University researcher unearths stone-age burial in Germany from 4600 years ago, yielding earliest evidence of people living together as a nuclear family.

## December

New research institute launched to tackle environmental crises in Australia and the world.

University awarded \$11.1 million for improved learning and teaching facilities.

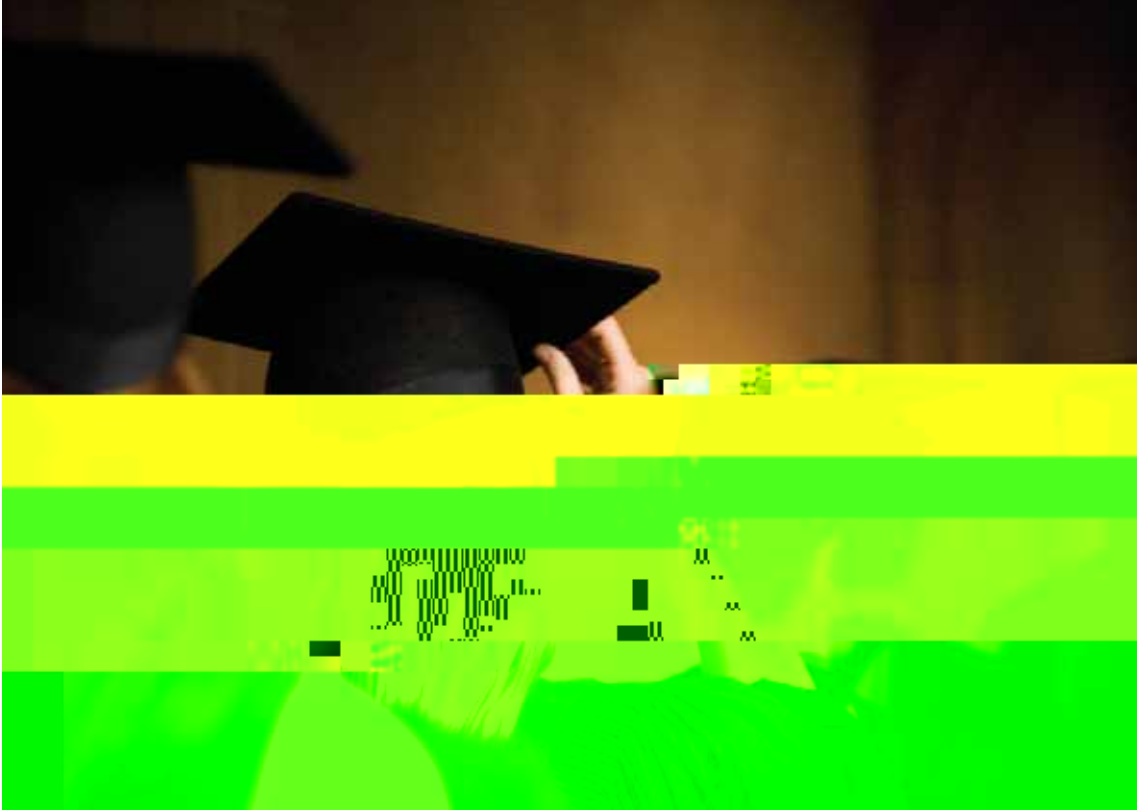
Record research results announced for 2008, with over \$140 million received from government, industry and other funding bodies.



	Persons *		FTE *	
	2008	2007	2008	2007
<b>Total Staff</b>	<b>2886</b>	<b>2803</b>	<b>2614</b>	<b>2548</b>
<b>By Type</b>				
Academic	1293	1255	1163	1136
Professional	1593	1548	1451	1412
Casual	n/a	n/a	n/a	n/a
<b>Academic Staff by Faculty</b>				
Engineering, Computer & Maths Sciences	197	187	190	181
Health Sciences	359	327	300	271
Humanities and Social Sciences	176	190	156	164
Sciences	378	380	355	363
Professions	155	143	136	130
Central Areas	28	28	27	27
<b>Academic Staff by Function</b>				
Teaching and Research	857	828	763	737
Research Only	424	416	389	388
Teaching Only	2	2	2	2
Other	10	9	10	9
<b>Academic Staff by Gender</b>				
Female	467	438	406	380
Male	826	817	757	756

The University recorded an operating result of \$34.8 million in 2008, compared with an operating result in 2007 of \$33.9 million. This is an excellent achievement in light of the current global financial crisis, supported by continued growth in student numbers and research performance. This result, combined with the operating surpluses of previous years and receipt of \$48m in Infrastructure Grants in 2008, has enabled the University to reinvest in its student, staff and facilities, including the construction of the state-of-art Engineering Building, commencing in 2009. This reinvestment will enable the University to reinvest in its 885 -12.499 re448.038 5114.42 Other

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in May 2008 as one of the Commonwealth Government's Nation Building funds. The EIF incorporates funding available via the Higher Education Endowment Fund (HEEF), which it will replace from 2009, as well as additional funding available from the federal budget surplus. The key priorities for expenditure of EIF are capital expenditure and infrastructure renewal and refurbishment in universities and vocational institutions (including research facilities). The one-off Better Universities Renewal Fund (BURF) also



accountable governance, but the responsibility to govern and manage their internal affairs has reverted to the university.

In February 2008, the Excellence in Research Australia (ERA) initiative was announced. This will be developed by the Australian Research Council (ARC) and will "assess research quality within Australia's higher education institutions using a combination of indicators and expert review by committees comprising experienced, internationally-recognised experts". In December 2008, the 'Indicators of Excellence', key guiding documents for the ERA, were released with the first trial of these to be undertaken in the first half of 2009.

The full impact of Commonwealth Government approaches to higher education will become clearer throughout 2009 as responses to the Bradley and Cutler reviews are formalised and new programs and initiatives such as the ERA begin to be implemented.

## Global Opportunities and the Economic Crisis

The impact of the global economic crisis is likely to significantly affect universities. The current economic situation could have a range of implications for the University of Adelaide in the context of changing student demand, changing spending priorities for the federal government and the impact on our international student markets.

The Economic Security Package introduced by the Government has potentially diverted some of the funding earmarked for education, although its commitment to the "education revolution" has been reiterated as a key component of the Economic Security Package. The full financial commitment from the Government will become clearer as responses to the Bradley and Cutler reviews are delivered.

Worsening economic conditions around the world may also affect international student numbers, as fewer families will have the money required for an overseas education. Countering this is the decreasing value of the Australian dollar, making Australian education cheaper and a more appealing option, as well as the fact that education is viewed as a sound long-term investment, particularly in times of economic difficulty.

Historically, times of economic crisis have seen the number of international students slow. However, the University of Adelaide has exceeded its targets for commencing international student load at a time when growth declined nationally. Australian visa regulations favouring South Australia have helped in this regard, as has the State Government's strategy to make Adelaide a university city.

## Higher Education and the State Government

The State Government's Strategic Plan update for December 2008 states that there is "positive movement" in South Australia's share of overseas students, with the target of doubling numbers by 2014 "within reach".

The Strategic Plan also has a goal to "better align institutions of higher education with the State's economic and social priorities". With much of China's economic rise reliant on energy and mineral resources, the State Government is making mining a significant focal point for future development. The University has responded with an increased emphasis on mining-related research and teaching.

Further opportunities still exist for exports of the University's education and research capabilities. With its diverse range of academic programs, strong links with industry and impressive record in research and development, the University is well positioned to partner with the State in this endeavour and to achieve a lasting impact on our society.

In terms of domestic students, the State target is to "increase South Australia's proportion of higher education students to 7.5% of the national total by 2014". The December 2008 Strategic Plan update indicates that this target is "on track" with "positive movement", although, as in the rest of the country, domestic student demand for university places has declined. This has been attributed to low unemployment levels and governments redirecting resources into apprenticeships and vocational education; however, the current economic climate is likely to see unemployment increase substantially and this in turn should increase domestic student demand.

Demographic predictions indicate that due to the profile of our ageing population, Year 12 enrolments in South Australia will continue to decrease and the ability to maintain local student numbers will be critical. Innovative measures will be required to improve the participation of traditionally under-represented groups.

In a global and national context several factors disadvantage the University: a smaller domestic market; population growth at half the national rate and an ageing population; lower household incomes; declines in traditional manufacturing industries; and a flow of younger people to other states. However South Australia, like the University itself, also has many advantages over its interstate counterparts and, with strategy and planning, is showing that obstacles can be overcome.

In September the Federal Minister for Education, the Hon Julia Gillard MP, informed the University that the *Higher Education Support Amendment Bill 2008* had been passed by the Parliament. This meant that the *Higher Education Support Act 2003* no longer had provisions that enabled the imposition of the National Governance Protocols as a specific condition of a higher education provider's Commonwealth Grant Scheme funding. A voluntary code will eventually replace the Protocols.



**Ex-officio Members:**

The Hon John von Doussa QC  
Chancellor

Professor James McWha  
Vice-Chancellor and President

Professor Robert Hill  
Presiding Member and Chair  
of Academic Board

**Appointed members:**

Mr Ross Adler AC  
(Deputy Chancellor)

Mr Charles Bagot

Ms Kate Castine

Ms Dianne Davidson

Mr Ian Kowalick

Ms Pamela Martin

Mr Stepausz K 2009 0 0 9 39685(Senior Management as at) G82 in E J F 2 net Pamela Martin Academic Staff:

**Elected members:****Academic Staff:**

Dr Rodney Crewther

Professor Valerie Linton

**General Staff:**

Mr John Cecchin

Ms Kylie Percival

**Students:**

Ms Jessica Cronin  
(until 5 March 2008)

Mr Aaron Russell  
(until 5 March 2008)

Mr Philip Swaine  
(until 5 March 2008)

Mr Andrew Hagan (elected 6 March 2008)

Mr Zhen Ji  
(elected 6 March 2008)

Ms Sophie Plagakis  
(elected 6 March 2008)

**Graduates:**

Ms Carolyn Anderson  
(elected 6 September 2008)

Professor Simon Maddocks

Dr Michael Penniment  
(until 5 September 2008)

Dr John Radcliffe AM

**Standing Committees  
of Council as at 31  
December 2008**

Academic Board: Chair —  
Professor Robert Hill

Audit, Compliance and Risk  
Committee: Chair —  
Mr Charles Bagot

Convenors' Committee: Chair —  
The Hon John von Doussa QC

Finance Committee: Chair —  
Mr Ross Adler AC

People and Culture  
Committee: Chair —  
Mr Ian Kowalick

Senior Executive Review  
Committee: Chair —  
The Hon John von Doussa QC

Senior Officers  
Committee: Chair —  
The Hon John von Doussa QC

**Council Secretariat**

Council Secretary:  
Ms Heather Karmel

Senior Officer:  
Mr Andrew Starcevic

Senior Officer:  
Ms Anne Wildy

Council Officer:  
Mr Mariusz Kurgan

**Senior Management as at  
31 December 2008**

Deputy Vice-Chancellor and  
Vice-President (Academic)  
Professor Fred McDougall

Deputy Vice-Chancellor and  
Vice-President (Research)  
Professor Michael Brooks

Vice-President  
Services and Resources)  
Mr Paul Duldig

Pro Vice-Chancellor  
(Learning and Quality)  
Professor Birgit Lohmann

Pro Vice-Chancellor  
(Research Operations)  
Professor Richard Russell AM

Pro Vice-Chancellor (International)  
Professor John Taplin

Executive Dean, Faculty of  
Engineering, Computer and  
Mathematical Sciences  
Professor Peter Dowd

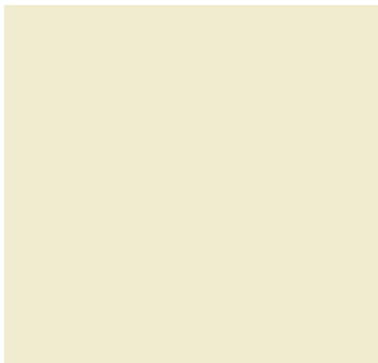
Executive Dean, Faculty  
of Health Sciences  
Professor Justin Beilby

Executive Dean, Faculty of  
Humanities and Social Sciences  
Professor Nicholas Harvey

Executive Dean,  
Faculty of the Professions  
Professor Pascale Quester

Executive Dean, Faculty of Sciences  
Professor Robert Hill





The University of Adelaide's comprehensive process of strategic planning continued with vigour in 2008, with the public release in February of the University's Strategic Plan for 2008–2012, *Building a Great Research University*.

The Plan sets out the University's mission and vision, high-level goals and strategies for the core areas of business: Research and Research Training, Education, and Services and Resources. Integral to the plan is the pursuit of research

# Planning



## Operational Planning

The University Operational Plan for 2009–2011 supports the Strategic Plan by outlining the major operational activities required to implement and achieve the University's strategies. Aligned with the Strategic Plan it identifies the targets and major operational plans for the core areas of the University's business. It also highlights the major priorities of the Divisions and Faculties over the next three years.

Together with the supporting Faculty and Divisional Business Plans, the University Operational and Strategic Plans form part of a systematic Institutional Planning and Performance Framework (IPPF). Introduced in 2004, the IPPF has been progressively developed over the last four years. The cornerstone of this framework is the ongoing review of past performance and implementation of practices leading to continual improvement such as annual progress reports. This process is supported by development and analysis of the University Performance Report as well as Performance Reports for Learning and Teaching, and Research and Research Training.

The annual update of student load and research income projections for the University provided the basis for the budget outlook considered by senior management. This provided the financial parameters around which the

priority operational objectives could be set. Priorities for the University in 2009 are continued growth with a focus on excellence, quality and innovation in education, research and service provision. In line with these objectives, Faculty and Divisional targets were determined, providing the financial underpinning for the development of individual Faculty and Divisional Business Plans, major strategic initiatives and the 2009 Budget.

The culmination of these processes was the development of a University Operational Plan for 2009–2011 highlighting the collective view of the University's senior management of the areas in which the University will focus its energy and resources during the next planning period to most effectively support achievement of the University's strategic goals.

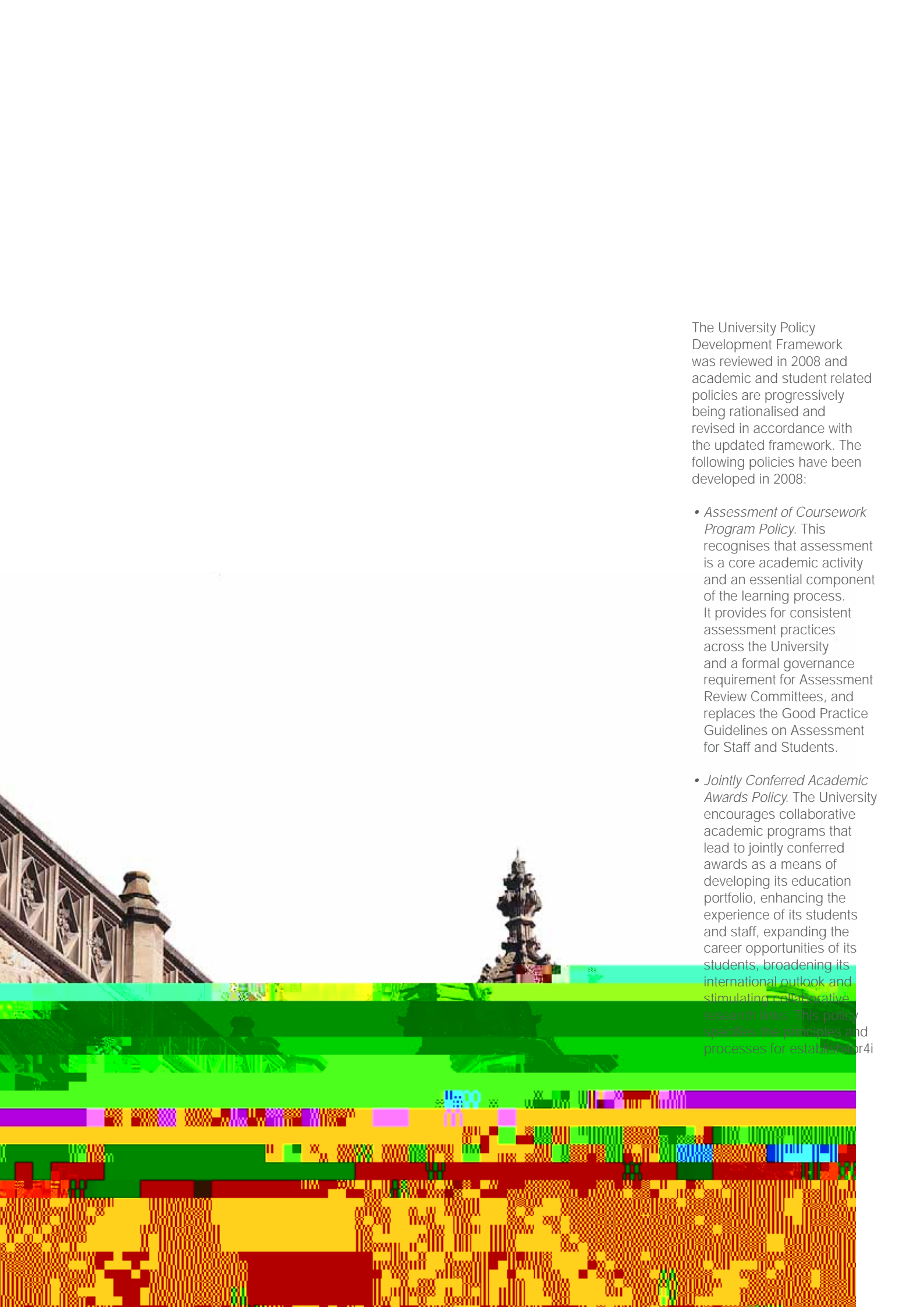
### Postgraduate Coursework Programs

In January 2008, a working party was established to review the University's current suite of postgraduate coursework program offerings and identify potential areas of growth. In late 2008, the Vice-Chancellor approved a set of recommendations aimed at improving the University's competitive position in the provision of postgraduate coursework programs.

### Summer and Winter School

Consistent with the growth strategy of the *Strategic Plan 2008–2012*, a number of initiatives are under way to improve the participation of domestic, international, cross-institutional, non-award and study abroad students. Administrative support and marketing of summer and winter courses was centralised in the Office of the Deputy Vice-Chancellor and Vice-President (Academic) in 2008. A new website was established to provide comprehensive information to prospective students, and a marketing campaign was launched. A new range of winter courses with an Australian flavour was introduced by the Faculty of Humanities and Social Sciences, which proved popular with domestic, international, cross-institutional and study abroad students.

December enrolments saw an influx of students securing their places for Summer School 2009. A substantial number of courses had all available places filled on the opening day of enrolments, with student numbers exceeding the total enrolment for the previous Summer School period by the third day of enrolments. The University will continue to build the Summer and Winter School by expanding the range of course options to ensure that students are provided with improved flexibility and choice.



The University Policy Development Framework was reviewed in 2008 and academic and student related policies are progressively being rationalised and revised in accordance with the updated framework. The following policies have been developed in 2008:

- *Assessment of Coursework Program Policy.* This recognises that assessment is a core academic activity and an essential component of the learning process. It provides for consistent assessment practices across the University and a formal governance requirement for Assessment Review Committees, and replaces the Good Practice Guidelines on Assessment for Staff and Students.
- *Jointly Conferred Academic Awards Policy.* The University encourages collaborative academic programs that lead to jointly conferred awards as a means of developing its education portfolio, enhancing the experience of its students and staff, expanding the career opportunities of its students, broadening its international outlook and stimulating collaborative research links. This policy specifies the principles and processes for establishing



The University's goals and aspirations in learning and teaching are addressed through the Education Operational Plan, which supports the 2008–2012 University Strategic Plan. The Education Plan includes goals and strategies to

# Learning

## Initiatives to Improve Learning and Teaching

The University received \$500,000 from the 2008 Learning and Teaching Performance Fund. This is an acknowledgement of the University's excellence in learning and teaching, and the money have been reinvested in a range of innovative projects, across all faculties, designed to improve learning and teaching outcomes for students. Recognising the importance of assessment in student learning and student outcomes, the University developed a new Assessment for Coursework Programs policy, which enunciates the principles that underpin the University's approach to assessment. New, innovative curricula were developed in Dentistry, Veterinary Science and Engineering, and a major university-wide project was undertaken to explore initiatives to improve student retention. High-quality program offerings are a hallmark of the University; in order to facilitate collaboration in the development of new program proposals, and to support the University's strategic direction, a new two-stage program approval process has been introduced. Peer-mentoring and internship programs were introduced in a number of faculties, and regular feedback on the student experience was obtained through course and program Student Experience of Learning and Teaching surveys and through student focus groups.

## Centre for Learning and Professional Development

Initiatives of the Centre for Learning and Professional Development (CLPD) that establish the University's commitment to improving the quality of learning and teaching are:

- The Writing Centre in the Barr Smith Library created an initiative to assist students with their writing skills. Students are offered individual consultations with a learning advisor for assistance with strategies for answering assignment questions, how to critically analyse and interpret evidence, and how to reference correctly and avoid plagiarism.
- A program of informal meetings between volunteers and international students whose first language is not English. The volunteer program provides language support for students from non-English speaking backgrounds who have an additional need to improve their oral communication. In this program trained volunteers are matched with one or more students, and volunteers and students arrange their meetings to suit their individual needs and time availability.

There are currently 40 volunteers who work with 50 international students. Volunteers are men and women from all walks of life, from those who are actively engaged in work or study but spend some lunchtimes with their students, to retirees with greater availability.

## Online Learning

An upgrade to the online education resource MyUni was completed at the end of 2008 with additional features available for staff and student use. New or enhanced features include the ability of staff to podcast feedback to students on their work and provide oral notes in addition to text-based documents, the use of wikis for group projects, and the ability to present virtual classroom sessions and have these recorded for later review by students. A new Online Content management system was tested with MyUni in the second half of the year so that staff and students will be able to readily access teaching resources covered by copyright and special licence provisions. Approximately 1,577 individual lectures were audio-recorded and made available to students in 2008, as well as 1,693 video-recorded lectures. The daily use of MyUni during teaching semesters is now up to 10,000 individuals.

Several academic staff have been trialling a new approach to teaching called Just-in-Time Teaching. This methodology allows students to complete online diagnostic quizzes before classes. Teachers review the students' results and adapt their teaching so that it concentrates on those issues that are most relevant to the students' learning. Teachers are able to spend more time on concepts that the students may be finding difficult and less time on those areas of the course that students find straightforward.

The University has established and implemented a systemic and effective approach to increase collaboration with TAFE.

With the assistance of faculties, the University has been working towards formalising collaborative agreements. This approach has seen the existing arrangement between the School of Dentistry and TAFE Gilles Plains renegotiated, providing a model for resource sharing and credit transfer in the area of Oral Health.

In addition, the University has enhanced communication by developing an articulation and credit transfer website to publicise relevant policies and procedures. The Guidelines for Staff have been revised to make the arrangements for collaborative developments explicit. Information on TAFE collaboration has been updated progressively as credit transfer and articulation arrangements 6- ga of Oral Health.

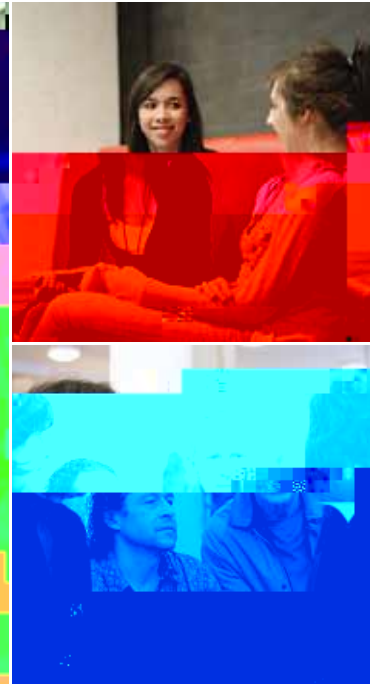
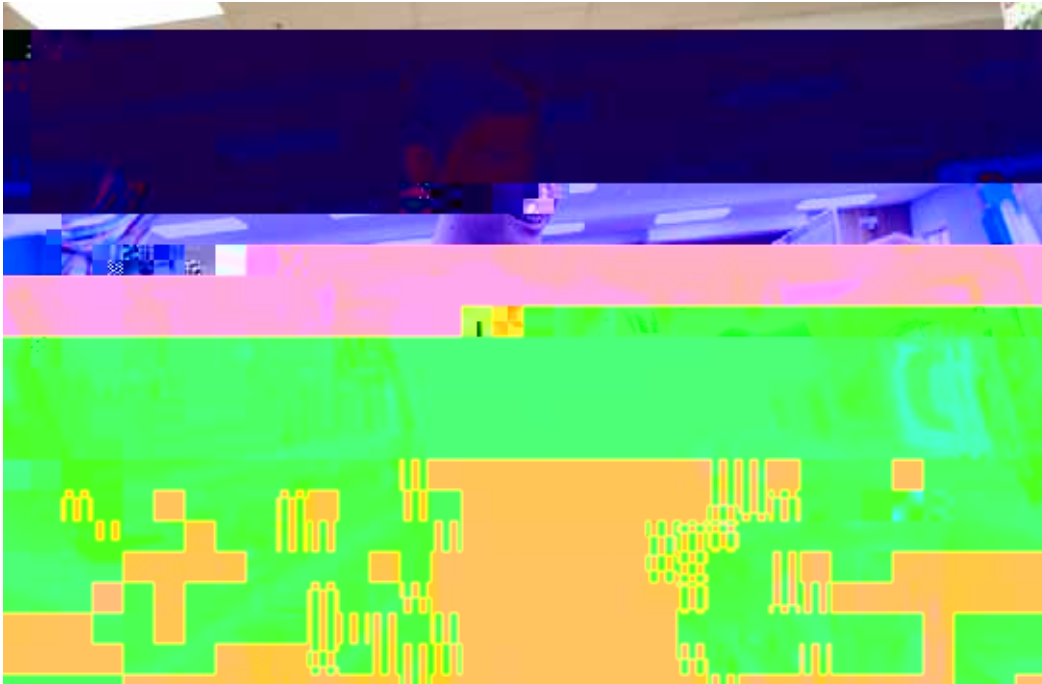
Recognising that the first-year experience is pivotal in improving retention rates, peer mentor programs were conducted in the School of Business (for both undergraduate and postgraduate students), School of Economics, School of Architecture, Landscape Architecture and Urban Design and the Faculty of Sciences. The equity-based SmoothStart peer mentoring program was expanded to include Wilto Yerlo and a peer mentor scheme was run to welcome and assist newly arrived residents to the University of Adelaide Village. A peer tutoring program was also piloted in the School of Economics.

A network of peer mentor program coordinators was established to provide a forum for academic and professional staff university-wide to share information, ideas and outcomes of programs.



points). These scholarships provide an allowance of \$10,000 to assist students with their education and living costs in the first year of a Bachelor level program.

The University of Adelaide Principals' Scholarships are available for one student from each school in South Australia that had students completing Year 12 studies in 2007. In 2008, the scheme was extended to also cover all schools in the Northern



## Undergraduate Entry

The University's Coursework Entry Committee (CEC) is responsible for providing advice on undergraduate entry policy and practices for local and international admissions.

In 2008, a Bonus Points Review Working Group was established with representation from each faculty to review the current outcomes of the Bonus Points Scheme, future benefits and costs of continuing with the Scheme relative to its original objectives and other relevant issues. The Committee endorsed the Working Group's recommendation to retain subject bonus points as the default position for all programs; however, the Scheme is to be amended to provide performance-based bonus points from 2011 onwards. The Committee agreed to exempt the Bachelor of Medicine and Bachelor of Surgery program (MBBS) from the Scheme following recommendations from the Working Group. The Committee also approved a proposal to expand the Fairway Bonus Points Scheme to schools with a three-year average university participation rate of 28% or less for 2009 entry (up from 25%).

During 2008, the decision was made to allow domestic applicants to apply for the Bachelor of Psychological Science from 2009 and the program is expected to be very popular amongst local applicants.

A Reference Group on SACE Issues, established to consider the implementation of the *futureSACE* and the implications for university selection, continued to meet throughout 2008. The CEC considered recommendations regarding the calculation of the Tertiary Entrance Rank; the Extended Learning Initiative (now named the Research Project); counting restrictions and precluded-subject combinations.

Approximately 20 postgraduate coursework programs were successfully run through a mid-year pilot of the *GradStart* application portal of the South Australian Tertiary Admissions Centre (SATAC). The Committee approved the use of *GradStart* for more than 200 postgraduate coursework programs from 2009 onwards.

## Grants for Learning and Teaching Enhancements

The University Implementation Grants for Learning and Teaching Enhancements were offered for the first time in 2008. This funding scheme is aimed at improving learning and teaching outcomes at the University. The Committee received and reviewed a total of twenty-six applications and was generally impressed with the quality of the applications received. A total of \$237,000, part of the Learning and Teaching Performance Fund Grant awarded to the University by the Commonwealth in 2008, was allocated for projects that addressed the overarching theme of assessment and feedback. The successful projects ranged from the implementation of a program evaluation mechanism to the development of an integrated web based assignment submission, assessment and feedback system.

## National Staff Awards

### Australian Learning and Teaching Council Citations

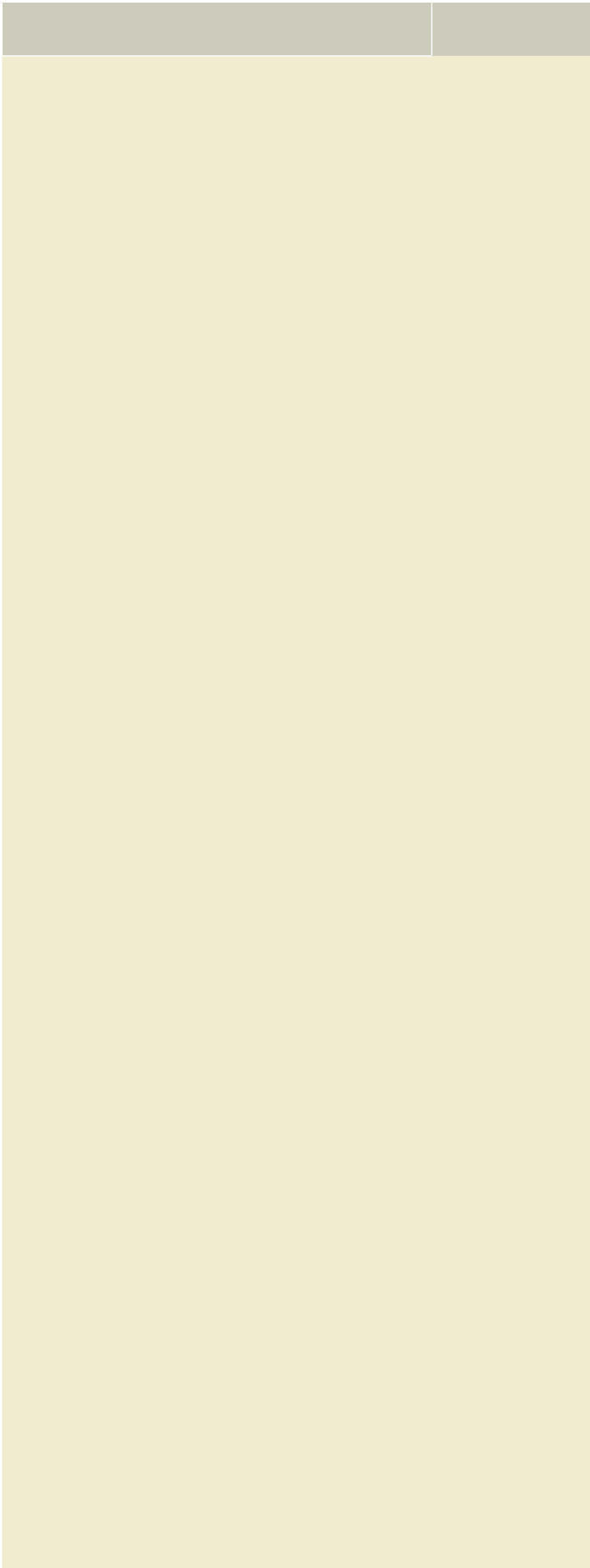
Eight teaching staff from the University of Adelaide received Citations for Outstanding Contributions to Student Learning, awarded by the ALTC.

The eight staff are:

- Dr Karin Barovich — School of Earth and Environmental Sciences (Geology & Geophysics) — for outstanding contribution to the personal and academic development of first-year students in Geology, leading to successful transition from high school to university.
- Associate Professor Tom Burton — School of Humanities (English) — for successfully stimulating deep learning by bringing to the study of English both rigour and a boundless enthusiasm that challenge and inspire students to achieve.
- Dr Katrina Falkner — School of Computer Science — for enhancing learning and contributing to the successful transition of first-year Computer Science students through cooperative learning activities.
- Associate Professor Peter Devitt — School of Medicine; and Mr Edward Palmer — Centre for Learning and Professional Development — a team award for the development of innovative and comprehensive blended learning resources to provide medical students stimulating opportunities to develop their problem-solving and diagnostic skills.
- Associate Professor Simon Pyke — School of Chemistry and Physics — for enabling successful learning in the discipline of organic chemistry by providing a supportive, student-centred learning environment that fosters self-confidence and independent learning.
- Professor Hemanta Sarma — Australian School of Petroleum — for initiating students into the profession of Petroleum Engineering while interacting with them to secure their welfare as individuals and success as scholars.
- Associate Professor David Walker — School of Civil, Environmental & Mining Engineering — for providing a supportive learning environment while improving learning outcomes through the implementation of a successful self-paced learning strategy for engineering modelling and analysis.

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Research and Research Training

The University of Adelaide

Research

The primary goal for Research and Research Training in the University Strategic Plan 2008–2012 states that:

# Training

The 25 ARC-funded Discovery Projects won by University researchers include groundbreaking research in the areas of climate change, communications, genetics, reproduction, obesity, agriculture, history and mental illness. Some examples are:

- Associate Professor Samar Akkach, School of Architecture, Landscape Architecture and Urban Design, will conduct a project designed to contribute to expanding Australia's knowledge of Islam.
- Dr Russell Brickworth and Dr Karin Nordstrum, School of Molecular and Biomedical Sciences, won funding in the area of computational neuroscience to understand and model insect motion vision, with possible applications in miniature

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The School of Earmistry and

Continuing a strong tradition of developing research outcomes in partnership with industry, the University also won 16 new ARC Linkage Grants over the two funding rounds announced in 2008, examples of which are:

- Professor Graeme Hugo *et al*, in collaboration with the Queen Elizabeth Hospital Research Foundation, Workcover SA, SA Health and the Council on the Ageing, won over \$641,000 for research into obesity and work patterns in the Baby Boomer generation.
- Professor Andy Austin *et al*, School of Earth and Environmental Sciences, in partnership with the Tasmanian Department of Primary Industries, Water SA and Zoos SA, won \$168,000 to study molecular evolution in Tasmanian devils. The genetic data and tools to monitor and prioritise conservation strategies aimed at preventing extinction, including on the Shire insurance populations and disease suppression.
- A research team led by Associate Professor Jonathan Karnon, School of Population Health and Clinical Practice, was awarded \$300,000 to investigate more effective ways to allocate public funds for government services. This is a collaborative project between the University of Adelaide and the South Australian Government to evaluate the long-term costs and benefits of community-based initiatives.

The University of Adelaide was also successful in winning a prestigious ARC Federation Fellowship for Professor Tanya Monro, Chair of Photonics in the School of Chemistry and Physics — the University's fourth such fellowship since the program commenced, and one of only 14 fellowships awarded across the country for 2008. The Federation Fellowship program allows researchers of international renown to make a significant contribution to the generation of knowledge and the Australian innovation system. In her relatively short career, Professor Monro has made important and pioneering advances in fundamental and applied aspects of microstructure optical fibres and photonics that have led to a number of 'world firsts'. For example, her research has led to the realisation of a new family of optical materials: the first non-silica holey microstructured fibres. These fibres have unprecedented optical nonlinearities and properties that have only begun to be exploited. Professor Monro is responsible for the establishment and success of the University's world-class, interdisciplinary Centre of Expertise in Photonics, the activities of which span the disciplines of Physics, Mathematics, Chemistry and the Biological Sciences.

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The University was also awarded significant funding from the Grains Research and Development Corporation (GRDC) and the Grape and Wine Research Development Corporation (GWRDC) for research projects and programs that include the following:

- Professor Stephen Tyerman, School of Agriculture, Food and Wine, was awarded funding from the GWRDC to support the research project 'Integrating the carbon and water economies of grapevine for optimal management in challenging environments'.
- Associate Professor Gurjeet Gill et al, School of Agriculture, Food and Wine, received funding from the GRDC for research on the identification of emerging weeds in southern and western regions, factors contributing to their

The purpose of TERN is to establish the necessary cooperative and data frameworks for a national collaborative approach to ecosystem infrastructure and research. As part of the national network, led by the University of Queensland, NCRIS provided \$4.5 million for an Eco-Informatics capability, which is to be operated by the University of Adelaide and the South Australian Department for Environment and Heritage. This activity will build upon a range of investments made by governments at all levels and aims to provide, through a distributed model, a single framework for data and information management and discovery for Australian ecosystems data.

The University was also successful with a Higher Education Endowment Fund bid, winning \$28.8 million for capital

Table 1: University of Adelaide Publications: Unweighted Scores, 1998-2007



and nationally. Backed by the Western Australian superannuation fund, Westscheme, the \$30-million fund provides a new source of pre-seed capital to support agreed projects from inception to the point where they can be commercialised. The participating institutions include the University of Auckland, Monash University, Flinders University, the University of South Australia and the University of Adelaide, with support from the State Government.

The Trans Tasman Commercialisation Fund complements the Commercial Accelerator Scheme, a program launched by ARI in 2007. This scheme provides an opportunity to support researchers with funding up to \$250,000 so that they can establish proof-of-concept or reach a development milestone necessary to attract a commercial partner. One of the projects supported in 2008 is directed at the development of a new class of antibiotics to combat the spread of multiple drug-resistant strains.

The annual Adelaide Research & Innovation Impact Awards provided an opportunity to celebrate the University's research and development effects on society, and to recognise academic entrepreneurs, as

well as encouraging more collaboration between the State's industry, education and research sectors. Some \$30,000 of prize money was on offer to the most successful partnerships between academics and industry, and research from throughout the University was profiled.

Associate Professor Mark Carroll from the Elder Conservatorium of Music was a major award winner for his work on the history of Ballets Russes tours and their influence on Australian high art and music. The two other major award winners were the Pain and Anaesthesia Research Clinic and the Data Management and Analysis Centre.

Impact Accolades were awarded to the following people for their significant contribution to applied research: Professor Michael Rumsewicz (Engineering, Computer and Mathematical Sciences); Associate Professor Bruce Ainsworth (Australian School of Petroleum); Professor Gary Wittert (School of Medicine); and Associate Professor John Spoehr (Australian Institute for Social Research). The award winners are great examples of partnerships resulting in knowledge transfer and real-world application of research.

## Research Training and Scholarships

The University is proud of the quality research training and experience it provides to its postgraduate research students. In 2008, the University completed 300 research-intensive postgraduate qualifications, including 268 research PhDs.

Student feedback indicators demonstrate a high level of student satisfaction with their graduate experience at the University of Adelaide. The Adelaide Graduate Centre is constantly evolving to meet the changing needs of students and their supervisors, playing a vital role in ensuring that candidatures are well administered and students are supported at every step of their research training.

One of the fundamental research training aims of the University's Strategic Plan is to increase the number and proportion of domestic and international higher degree by research students. One important way in which this is achieved is through the provision of scholarships. In 2008, the University administered 64 commencing Australian Postgraduate Awards. In addition to this prestigious national scholarship program, the University funds its own scholarships scheme, allocating 188 new Divisional research scholarships.

An initiative to provide tuition fee waivers to international students completing a four-year undergraduate degree or equivalent (with First Class

Honours), or a Masters degree at the University of Adelaide, resulted in an additional six students accepting places.

In late 2007 an agreement between the University and the China Scholarship Council was signed by the Pro Vice-Chancellor (International). This joint initiative provides research training for qualified postgraduate research students and early career postdoctoral research scholars from Chinese universities. The first set of 10 tuition-fee scholarships was awarded in 2008 to applicants from partner universities in China. Recipients are undertaking research programs in Agriculture and Animal Science, Pharmacology, Plant and Food Science, Dentistry, Medicine, Mechanical Engineering, Civil and Environmental Engineering and Entrepreneurship.

The University also allocated a number of international postgraduate research scholarships, funded by the Commonwealth Government and the University. Twenty-three scholarships were made available to cover tuition fees and a living allowance for up to 3½ years, with an additional 15 scholarships covering tuition fees only. The successful recipients come from a diverse range of countries including Israel, Germany, Brazil, Canada, Myanmar and South Africa.

Scholarships are also funded by several external bodies. The University was awarded

## Research Collaboration

six NHMRC Postgraduate Scholarships, up from three awarded in 2007 and the best outcome so far achieved, according to NHMRC statistics dating back to 1996.

The University celebrated its 102nd Rhodes Scholar, Benedict Coxon. Mr Coxon completed an Honours Degree of Bachelor of Laws (First Class) in 2008. The scholarship will enable him to study for a D.Phil (PhD) at the University of Oxford, concentrating on the field of statutory interpretation.

Another graduate, Mr James Daniell, was awarded a General Sir John Monash Award in 2008. Mr Daniell completed a Bachelor of Engineering (Civil and Structural) degree with First Class Honours and a Bachelor of Science degree in 2006. He will be undertaking a PhD at the University of Karlsruhe, Germany. His research will be conducted on the vulnerability and risk assessment of cities against natural and human-made disasters, incorporating social, environmental, infrastructural and economic impacts.

Two graduates won Commonwealth Scholarship and Fellowship Awards to study in the United Kingdom. Mr Brendan Lim and Ms Stephanie Wilkins will both be undertaking Taught Masters courses in Law at the University of Oxford.

Members of the University regularly collaborate with industry, government, other research institutions and the general community in many and varied ways. The following section provides just a few examples of activity in 2008.

The University of Adelaide and Qantas Airways signed a Memorandum of Understanding that aims to provide benefits to both organisations through collaboration on engineering teaching and research. The alliance provides even greater opportunities for students to receive a quality industry-relevant education in their chosen areas of study, as well as strengthening the industry relevance of our research programs. It is an outstanding example of universities and industry working together to identify and achieve common goals.

November saw the launch of the Wine Innovation Cluster and the opening of its new \$28-million building at the Waite Campus. The Cluster brings together the resources of the Australian Wine Research Institute, CSIRO Plant Industry, private research agency Provisor Pty Ltd, the South Australian Research and Development Institute (SARDI) and the University of Adelaide. The Cluster is a collaborative initiative that will assist Australia to become the world's leader in wine science, with research spanning

such fields as microbiology, chemistry, sensory science, engineering, oenology and viticulture. The investment upholds the Waite campus as a leading wine centre, and will help to ensure our wine industry remains competitive and sustainable.

The University of Adelaide became part of a new Centre for Intergenerational Health. This is an important initiative that includes Flinders University and the University of South Australia, the Department of Health and the Department of Further Education and Training. The Centre brings together researchers from diverse research fields spanning fundamental bio-medical and clinical research, intervention and evaluation research, population studies, strategic research, the social and environmental determinants of health, and multidisciplinary research that will inform future decision making and health and wellbeing outcomes.



## Awards and recognition

- A number of the University's past and present researchers were recognised in the 2008 Queen's Birthday Honours, including Professor Chris Burrell AO for service to medicine, and Associate Professor David Paton AM for service to conservation and the environment.
- The 2008 South Australian of the Year Awards saw recognition for four people associated with the University. Paralympic swimmer Matthew Cowdrey OAM, who is studying Media and Law, was named 2008 Young South Australian of the Year. Professor Richard Ruffin, School of Medicine, claimed the Health Award. Professor Mike Young, Research Chair of Water Economics and Management, won the Environment Award. Professor John Hopwood, an affiliate professor with the School of Paediatrics and Reproductive Health, received the Science Award.
- Dr Tamath Rainsford, (School of Electrical and Electronic Engineering) was named the overall winner of the South Australian Young Tall Poppy Science Award. Her research is about applying mathematics to various real-world problems, especially those that are medical or biological in nature. The University also saw four other Young Tall Poppy winners, selected on the basis of research achievement and passion for communicating their science: Associate Professor Corey Bradshaw, Dr Catherine Gibson, Dr Galen Halverson and Dr Megan Mitchell.
- In the 2008 SA Science Excellence Awards, Professor Mark Buntine, School of Chemistry and Physics, was named Science Educator of the Year. The title of SA Scientist of the Year went to Professor John Hopwood, Head of SA Pathology's Lysosomal Diseases Research Unit based at the Women's and Children's Hospital, and an affiliate of the University. Another affiliate, Associate Professor John Mulley, won the Excellence in Research for Public Good Benefit award. The University of Adelaide is a partner in Marine Innovation SA, which won the Constellation SA Award for Excellence in Collaborative Research.
- Dr Kate Selway, a postdoctoral research associate with the School of Earth and Environmental Sciences, won the 2008 SA Young Achiever of the Year award. She is working on a project between the University of Adelaide, BHP Billiton and Teck Cominco in the Olympic Dam region, carrying out large scale magnetotelluric (electromagnetic) surveys which provide 3D images of the earth to depths of about 70 kilometres. Dr Selway also won the Science and Technology Award.
- Professor Tanya Monro, Director of the Centre of Expertise in Photonics, won the Malcolm McIntosh Prize for Physical Scientist of the Year, one of the Prime Minister's science prizes. Professor Monro has demonstrated a remarkable ability to carry out world-class research that has important outcomes and applications in science, industry and defence. Her research targets problems both in fundamental and applied physics as well as in other fields such as proteomics, virology and structural health monitoring.
- Professor Garrett Cullity won the 2008 Australian Museum Eureka Prize for Ethics Research, which recognises excellence and originality in ethics that is directly applicable to our lives. Professor Cullity's book, *The Moral Demands of Affluence*, examines what has been called "the great moral challenge of our time" — whether and to what extent well-to-do individuals are obliged to help the vast numbers of poor people around the world.
- Dr Jason Able, School of Agriculture, Food and Wine, was the recipient of the Peter Goldacre Award from the Australian Society of Plant Scientists. The Award is given to a plant scientist who is less than 10 years out of their PhD and whose work is recognised as important and of high merit.
- Dr Pichu Rengasamy, from the School of Earth and Environmental Sciences, was awarded the prestigious Prescott Medal from the Australian Soil Science Society, for his outstanding contribution to soil science and sodicity research in Australia.
- Dr Ron Smernik, a QEII Fellow in the School of Earth and Environmental Sciences, was awarded the Frederick White Prize of the Australian Academy of Science. The prize is awarded biennially to an Australian scientist under the age of 40 whose research makes a significant contribution to community interests, to rural or industrial progress or to the understanding of natural phenomena.
- Professor Robin Graham, Affiliate Professor in the School of Agriculture, Food and Wine, was awarded the CM Donald Medal by the Australian Society of Agronomy. The medal recognises the lifetime achievement of an Australian agricultural scientist.
- Professor Charles Pearce, Elder Professor of Mathematics, was presented with the Ren Potts Medal of the Australian Society for Operations Research for his outstanding contributions to Operations Research in Australia.
- Dr Zbigniew Kruk, his research team and research partners won the Business Higher Education Round Table Award for the Best Research and Development Collaboration, for a value-adding project which aims to develop healthy lamb meat products with attractive flavours via dietary manipulations.

In 2008 approval was given for a number of new research institutes and centres in the areas of health, defence and agriculture, all of which are conducting cutting-edge research with collaborative partners.

The Robinson Institute was established in October 2008, focusing on reproductive health, stem cell research and health across generations. Named after renowned obstetrician Professor Jeffrey Robinson CBE, Emeritus Professor at the University of Adelaide, the Robinson Institute encompasses the University's Research Centre for Reproductive Health, the Centre for Stem Cell Research and the Centre for Early Origins of Health and Disease, in a collaborative venture with the Lyell McEwin, Women's and Children's, Royal Adelaide and Queen Elizabeth hospitals, and the Hanson Institute at the Institute of Medical and Veterinary Science. The Institute is led by University of Adelaide reproductive medicine expert Professor Robert Norman, and involves more than 200 research staff and students with expertise ranging from epidemiology through to molecular biology and genetics. The Robinson Institute builds on the University's international reputation in reproductive health stemming from world-leading research over the past 50 years, which has increased understanding of human and animal reproduction and produced new infertility treatments and genetic diagnosis of embryos.

The Institute for Mineral and Energy Resources was formally announced by the Premier of South Australia, the



The University of Adelaide is home to, or a significant participant in the following National Research Centres funded by the Commonwealth Government and research organisations:

**Australian Research Council (ARC)**

- Special Research Centre for the Molecular Genetics of Development
- Special Research Centre for the Subatomic Structure of Matter

**ARC Research Network**

- Environmental Futures Network

**ARC–NHMRC Research Network**

- Genes and Environment in Development

**National Biotechnology Centre of Excellence Program**

- Australian Centre for Stem Cell Research (partner)





The University is also involved in several Cooperative Research Centres (CRC), a Commonwealth Government program linking industry with government and higher education research organisations:

- CRC for Australian Weed Management (core partner)
- CRC for Beef Genetic Technologies (core partner)
- CRC for Desert Knowledge (associate)
- eWater CRC (core partner)
- CRC for Future Farm Industries (core partner)
- CRC for Greenhouse Gas Technologies (core partner)
- CRC for an Internationally Competitive Pork Industry (core partner)
- CRC for Landscape Environments and Mineral Exploration (core partner)
- CRC for Molecular Plant Breeding (core partner)
- CRC for National Plant Biosecurity (supporting participant)
- CRC for Seafood (supporting participant)
- CRC for Sustainable Aquaculture of Finfish (supporting participant)
- CRC for Water Quality and Treatment (core partner)

## University of Adelaide Research Institutes, Centres and Units

### University-designated Research Institutes and Centres

- Australian Institute for Social Research
- Australian Centre for Evolutionary Biology and Biodiversity
- Australian Research Centre for Population Oral Health
- Centre for Biomedical Engineering
- Centre for Early Origins of Health and Disease
- Centre for Food Plus
- Centre for High Performance Integrated Technologies and Systems
- Centre for International Economic Studies
- Centre for Labour Research
- Centre for the Quantification and Management of Risk
- Centre for Reproductive Health
- Freemasons Foundation Centre for Men's Health
- Institute for Climate Change and Sustainability
- Institute for Geometry and its Applications
- Institute for Mineral and Energy Resources
- The Environment Institute
- The Robinson Institute

### Other University Centres

- Australian Centre for Ancient DNA
- Centre for Australian Indigenous Research and Studies
- Centre for Automotive Safety Research
- Institute for International Trade
- International Centre for Financial Services
- National Centre for Social Applications of Geographical Information Systems
- TRC Mathematical Modelling

### Faculty Research Centres, Units and Groups

- Australian Research Centre for Health and Wellbeing of Women and Babies
- Cardiovascular Research Centre
- Centre for History of Food and Drink
- Centre for Internet Technology Research
- Centre for Orofacial Research and Learning
- Centre for Pain, Addiction and Anaesthetic Research
- Children's Research Centre
- Colgate Australian Clinical Dental Research Centre
- Public Health Information Development Unit
- Research Unit for the Study of Society, Law and Religion

### Joint University/Other Research Organisation Units

- Adelaide Microarray Facility
- Adelaide Proteomics Centre
- Australian Centre for Plant Functional Genomics
- Australian Centre for Visual Technologies
- Centre for Stem Cell Research
- Centre for Treatment of Anxiety and Depression
- Centre for Defence Communications and Information Networking
- Centre of Expertise in Phased Array and Microwave Radar Systems
- Centre of Expertise in Photonics
- Centre for Military and Veterans' Health
- Defence Systems Innovation Centre
- Don Dunstan Foundation
- Ethics Centre of South Australia
- Mosaic Fertilizer Technology Research Centre
- SARDI / University of Adelaide Food Safety Alliance
- South Australian Centre for Economic Studies
- South Australian Centre for Rural and Remote Health



During the year the University put in place a comprehensive framework for the approval of all international agreements, and an on-line international agreements database accessible to all University staff. Both were commended by the Australian Universities Quality Agency in its 2008 audit of the University.

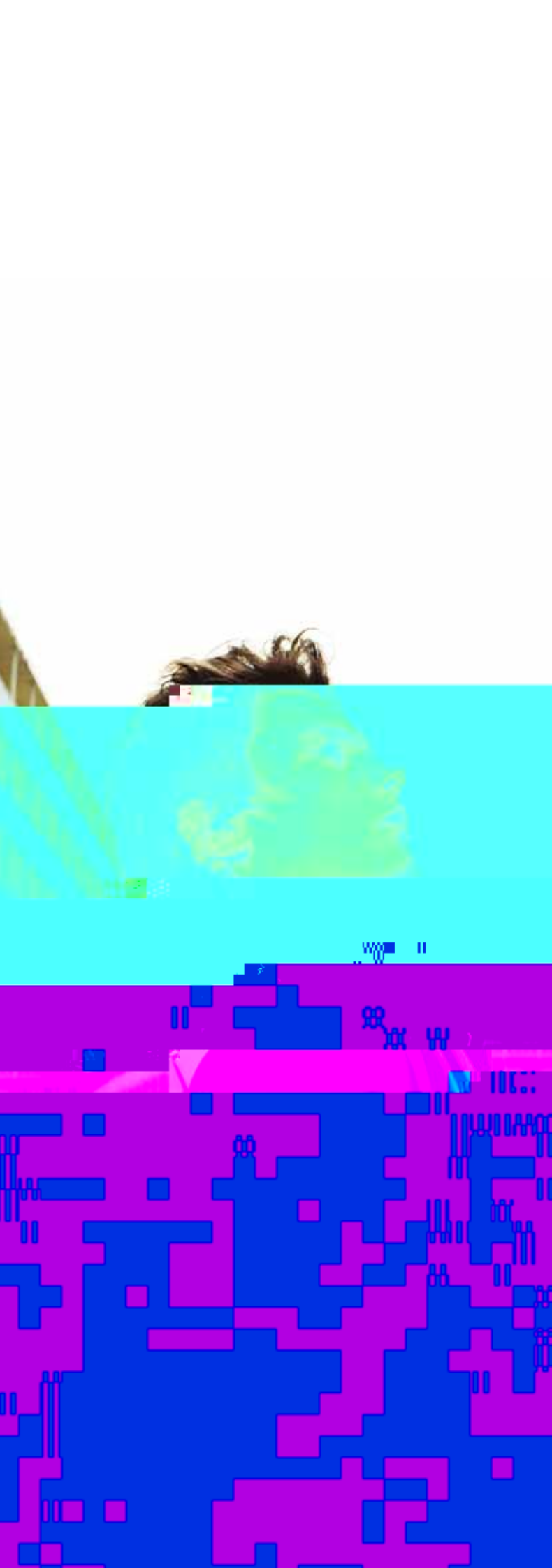
Among the international agreements signed by the

Forty-three international agreements with 49 overseas institutions were signed by the University in 2008: nine of these were renewals of existing agreements. The agreements covered such things as research collaboration, student sponsorship, student exchange, and joint teaching programs. The countries most strongly represented among these agreements were Germany (agreements with 11 institutions), China (8) and Malaysia, France, Sweden and the UK (3 each). There were agreements with Chile, Indonesia, Italy and the USA (2 each). Other countries involved, each with a single institution, were Canada, Eritrea, Finland, Hong Kong, India, the Netherlands, New Zealand, Spain, Taiwan and Vietnam.

# Internationalisation



Collaboration between Latin  
America and South Australia'.  
This was opened by the  
Premier of South Australia,  
and attended by Heads of  
Missions to Australia from  
Argentina, Brazil, Chile, Mexico



In 2008, 178 University of Adelaide undergraduate students undertook (as part of their degree) a study abroad program arranged through the International Office. Of these, 58% took advantage of OS-HELP loans offered by the Australian Government, while 42% received (to S[78 26d4 y toudy

to universities in Europe or North America. There appears to be growing student interest in exchanges with Spanish-speaking countries as well. The above figures do not include the large number of Higher Degree by Research (HDR) students who participate in international placements during their degree programs. Student-initiated programs in medicine and internships arranged through the award-winning local chapter of AIESEC are also not included.

During the year, the University signed new student exchange agreements with quality universities in Finland, France, Germany, Italy, the Netherlands, Spain and the United Kingdom. The University also held a Student Exchange Fair on campus to encourage Adelaide students to consider overseas study and to discuss this possibility with representatives from exchange partner institutions. Around 1,000 students visited this Fair, meeting representatives from partner universities in Europe, Asia and North America. The level of student interest was noticeably greater than in previous years.

The largest ever number of students from the University of Adelaide won Chinese Government scholarships to continue their studies in China. Five students went to China to undertake programs ranging from intensive Chinese language courses to doctoral research. The Confucius Institute also assisted two students to attend the Dragon Foundation's Dragon 100 Young Leaders' Forum, held in Hong Kong and Guangzhou. A University of Adelaide student participated in a 21-day tour of Japan in November/December, one of 10 Australian university students funded by Mitsui Educational Foundation.

An important advance in 2008 was the introduction of the International Student Barometer (ISB) to assess the quality of the international student experience. The survey also enables the University to benchmark itself in this respect against other universities participating in the survey, as it is used by over 90% of the United Kingdom's research-intensive universities and other institutions in Australia, Ireland,

In 2008 the Art and Heritage (A&H) program continued to provide a diversity of platforms for connection and discussion between the community and academic disciplines. Art and Heritage also supported statewide cultural activities such as History Week and the South Australian Living Artists Festival, to maximise the profile of the University in the wider cultural landscape.

Collection management work continued with an increasing rate of entries into the database, enhancing A&H's ability to source artefacts for a variety of projects and exhibitions. One such activity was assisting a documentary about Sir William and Sir Lawrence Bragg. Material from the Physics Museum collection and the Scientific Apparatus Collection helped to recreate the Braggs' laboratory at Leeds University.

In 2008 A&H established a volunteer group to support staff in meeting the demands of collection management and cultural tour development. This initiative proved to be successful with fifteen volunteers helping to complete several significant projects. These include the establishment of a self-guided cultural tour of the Roseworthy

Campus and cataloguing of the Heritage Furniture Collection.

A&H also helped to respond to the cultural needs of the community by organising a public memorial for the sculptor John Dowie AM DUniv (Adel), who died in March 2008. Over 300 people attended the ceremony, held in Bonython Hall. The Dowie family and the broader community expressed gratitude to the University for honouring the much



## Development and Alumni

2008 saw the dawn of a new era for both the development and alumni programs at the University of Adelaide. Several key initiatives launched during the year heightened the way in which the University engages, supports and recognises its alumni and friends.

### Alumni Relations

Several key objectives from the University's Alumni Relations Strategic Plan 2007–2011 were implemented in 2008, including the distribution of the Alumni Membership Card to over 55,000 alumni, the launch of the online community Adelaide onLION, and the establishment of Development and Alumni Officer positions in the Faculty of Sciences, Health Sciences, Professions and Humanities and Social Sciences.

### Alumni Awards

The Honours Alumni University Medal for 2008 was presented to Brendan Lim at the August Graduations. The recipients of the 2008 Distinguished Alumni Award were:

- Robert Benjamin Cooter, MBBS 1952 — In recognition of his outstanding and innovative vision for rural health, which has been important in laying the foundation for rural health training in general practice in South Australia, together with his continued contact and support of the University of Adelaide over many years.
- Elizabeth Alice Silsbury B Mus (Hons) (1967), Mus Bac (1959), BA (1956), Dip Mus (1953) — In recognition of her exceptional contribution to music and music education in South Australia at primary, secondary and tertiary levels; the value of her talents and skills promoting South Australia through national and international organisations and publications, and her service to the University of Adelaide.
- Gwendoline Fay Gale D Univ (1994), PhD (1962), BA (Hons) (1954), BA (1952) — In recognition of her outstanding teaching influence and achievements in Women Studies and University Equity, in Human Geography and Aboriginal Studies (awarded posthumously).

### Alumni Communications

In July 2008, the University of Adelaide launched its new online community, Adelaide onLION. This interactive, social and professional networking facility enables alumni to connect within a secure, private online environment. Over 8,000 alumni from all over the globe joined Adelaide onLION in 2008.

Perpetual Email is now available to all alumni through Adelaide onLION. Over 11,000 of the University's alumni are making use of this free email forwarding service that allows alumni to keep a single University-based email address, no matter where life takes them.

The University's bi-annual alumni magazine *Lumen* highlights the latest research and educational strengths of the University and provides a forum for sharing the achievements of alumni with over 56,000 hardcopy readers and 40,000 electronic readers around the world.

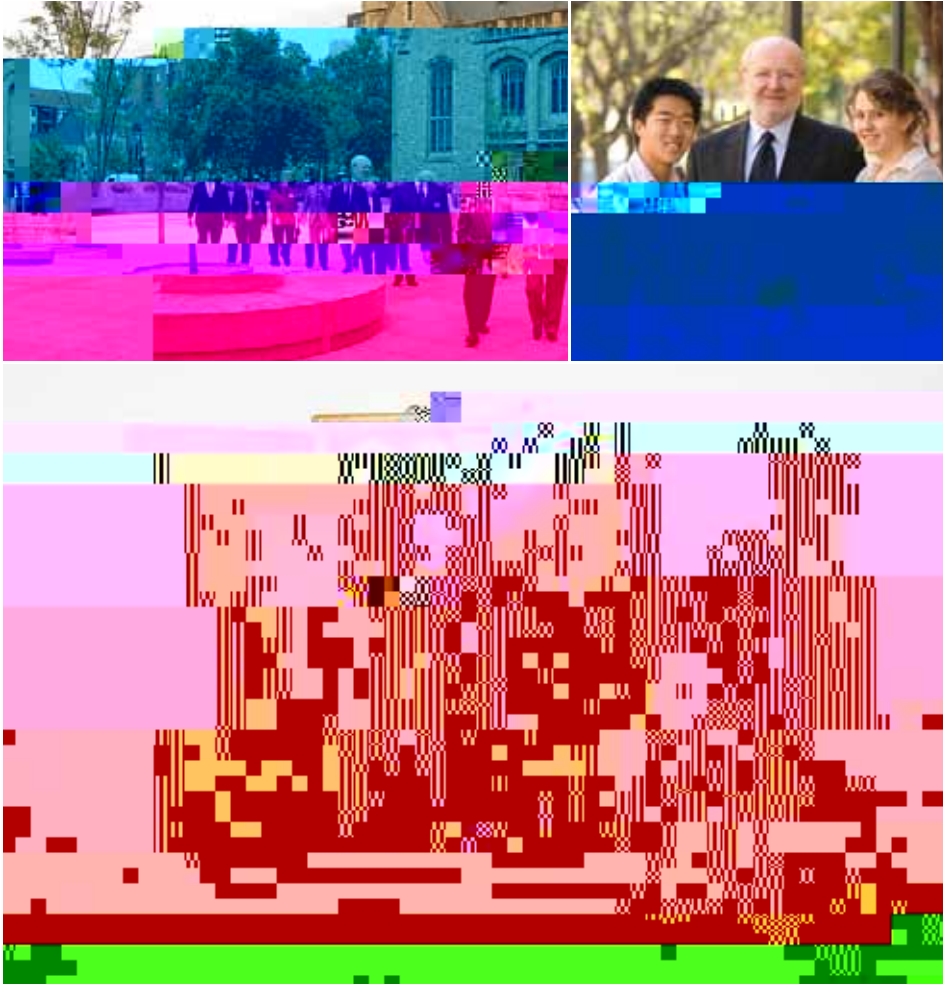
The University's new alumni e-newsletter, *The Roar*, (formerly known as *Adelaide-link*) continues to grow with over 8,000 subscribers now receiving the latest University and alumni news directly to their inbox each month.

### Alumni Events

The Student and Industry Program continued to be a great success with events held in: Civil, Environmental and Architectural Engineering; Psychology; Viticulture, Oenology, Wine Business and Marketing; Environmental Policy and Management; and Architecture and Landscape Architecture.

Roseworthy Campus celebrated its 125<sup>th</sup> Anniversary in 2008, marking the occasion with a service in St Peter's Cathedral, a commemoration ceremony held in Bonython Hall, a reunion dinner for graduates held at the Adelaide Oval, reunions for former staff and Council members, and an Open Day at the campus. Around 5,000 people in total attended these events.

The Golden Jubilee for graduates of 1958 took place on October 17. The reunion included a commemoration ceremony, at which John Halbert MBE (Dip Phys Ed) gave the Golden Jubilee Address, and was followed by a reunion luncheon. The School of Architecture, Landscape Architecture and Urban Design held a Gala Reunion Dinner for alumni to celebrate its 50<sup>th</sup> Anniversary. The dinner was preceded by a cocktail reception hosted by the Lord Mayor of Adelaide. Internationally, University staff and alumni celebrated the 10<sup>th</sup> Anniversary of the University's partnership with the Ngee Ann-Adelaide Education Centre in Singapore and later in the year participated in the Australian Universities International Alumni Convention, also held in Singapore.



Top left: Chief Minister Taib (right), Vice-Chancellor Professor James McWha and other guests tour the newly landscaped Taib Mahmud, Chief Minister of Sarawak Court  
Photo by John Hemmings

Above: Part of the Art & Heritage Collection, this microscope was purchased by Nobel Laureate William Bragg in F.8ee of the

## Alumni Networks

The alumni networks both in Australia and overseas held numerous activities in 2008, ranging from reunion dinners to public lectures, and continue to play an integral role in reconnecting alumni to each other and to the University. A Federal Parliamentary Alumni Network was officially launched in May by the Vice-Chancellor at Parliament House in Canberra. Instigated by arts graduate Senator Natasha Stott Despoja, the network will provide an opportunity for Federal Members of Parliament and key parliamentary staff to re-engage with the University and fellow graduates. The inaugural annual alumni luncheon was also held in Canberra and attended by over 100 graduates and University staff.

## Development

### Adelaide Benefactors Circle

A University-wide Donor Recognition Program — called Adelaide Benefactors Circle — was launched in Bonython Hall in June to acknowledge, recognise and thank the University's major benefactors.

In February, the Heritage Foundation Committee organised a Progressive Dinner held in three of the University's heritage-listed buildings. The silver service dinner attracted 160 guests and raised over \$150,000 for the Heritage Foundation.

## Planned Giving Newsletter

The University's bi-annual planned giving newsletter *Impact* has a readership of over 2000 alumni and friends of the University. It highlights events and profiles alumni whose generosity has made an

### General Overview

Elder Hall was a lively, busy and popular venue throughout the year. Steeped in a rich cultural and musical tradition, the historic and elegant 670-seat auditorium has become an increasingly well-

Income for the year was up by approximately 20% from 2007 and over 15,500 tickets were sold, with an average attendance of 475. The continued success of this series is due to the consistently high quality performances by local and international artists performing, and the accessibility of the concerts through pricing, timing and location.

The inaugural Adelaide International Cello Festival in April, presented in association with the Adelaide Symphony Orchestra, was a highlight of the series. Elder Hall was the venue for over 20 Festival events, including six daily lunch hour concerts presented to great critical acclaim.

Several concerts were sold out, including performances by world-renowned jazz trumpeter Ray Vega in concert with the Elder Conservatorium Jazz staff, and Konstantin Shamray, the 2008 winner of the Sydney International Piano Competition of Australia. Also of note was a concert by early music specialist Lucinda Moon and friends, which featured the only Lirone (a 16<sup>th</sup> Century

string instrument) in the southern hemisphere, and the all-Bach organ recital by Calvin Bowman, where videoing of the performer's hands and feet at work was beamed onto large screens to great effect.

### ELDERHALL evenings 2008

A broad mix of styles and eras, this series of concerts not only showcases the Elder Conservatorium students and ensembles but is vital in facilitating their development from student musicians to professional performers. The concerts feature guest artists from Australia and abroad and attract music lovers of all genres, school groups, academic and professional staff from the University of Adelaide, invited guests as well as family groups. The series was supported by ETSA Utilities and average attendance across the six concerts was 350 people per performance.





Professional and Continuing Education (PCE) plays an important role in linking the University with the local, national and international community. In 2008, over 5200 students studied

weeks and studied programs developed to meet specific educational needs in subject areas including English and TESOL (Teaching English to Speakers of Other Languages) Methodology.

The Pre-Enrolment English Program (PEP) attracted over 640 students during 2008. For students who successfully complete this program it provides a direct entry pathway to undergraduate and postgraduate programs at the University of Adelaide. General English for Academic Purposes (GEAP) attracted over 100 students from 25 different countries.

PCE's Certificate IV in TESOL was once again extremely popular with two 4-week intensive and two part-time courses reaching maximum numbers. Graduates are in high demand by local and international institutions seeking quality teachers of English as a Second Language (ESL).

PCE runs a successful Homestay Accommodation Program, placing international students with local families for a first-hand experience of everyday Australian family life. Homestay is a wonderful way for students to improve their English, acquire confidence, and learn more about Australian culture in a friendly, nurturing environment. PCE placed over 450 students with Adelaide families throughout 2008.



arts and culture, 30 reviews





The University of Adelaide offers tours at its four campuses, and also the National Wine Centre. The tours are conducted by experienced guides, some of whom are graduates of the University. Throughout 2008, more than 70 tours were taken up by the general public, community groups, international visitors to the University, and current and prospective staff members. The guides also participated in SA History Week, the South





## Waite Historic Precinct

The Waite Historic Precinct, which is listed on the State Heritage List and National Estate, comprises the internationally renowned Waite Arboretum, and Urrbrae House, an accredited museum. The Precinct offers a range of facilities and activities for the public, including tours. The Urrbrae House gardens, Waite Arboretum and Waite Conservation Reserve are open to the public every day of the year from dawn to dusk.

## Urrbrae House

During 2008, action was taken to promote greater awareness of Urrbrae House, both on the Waite Campus and across the University, through new activities, such as lunch-time tours for staff. There was an increased range of community events — held in association with the Friends of Urrbrae House and other community groups — such as the Scottish ceillidh, concerts, a literary event, exhibitions and the Mitcham Council's Queen's Birthday Honours celebration.

The Urrbrae House interactive history program for primary schools continued to be a success. The free program is designed to enable primary students in Years 4–6 to step back into the recreated world of the 1890s. It provides an excursion option for a group of up to 30 students, with costumed guides taking students through a range of nineteenth century activities in Urrbrae House. Guides encourage students to think about how life was lived over a century ago and discuss aspects of South Australian history during the course of activities. In 2008, more historical artefacts and reproductions were acquired to enhance the depth and authenticity of the historical experience.

A school holiday event, 'Fun in 1901', organised by the Friends of Urrbrae House and supported by University staff, was held at Urrbrae House and gardens in October. Some 60 children aged 7 to 13 and 40 parents and grandparents attended, with a lot of positive feedback offered and requests to make it a regular event.

## Waite Arboretum and Waite Conservation Reserve

In the Waite Arboretum, 67 new trees were planted, mostly additions to the experimental Dry Rainforest Demonstration Garden.

Arboretum guides conducted 31 walks for community groups, schools and the general public including special walks during the Fringe Festival, History Week and SALA (South Australian Living Artists) Week. Collaboration continued with Urrbrae TAFE. Seeds collected from the Waite Arboretum are being propagated using new technologies to provide trees for trialling by local governments as part of the TREENET Street Tree Trials.

In June, Death Cap fungus *Amanita phalloides* was discovered in the Arboretum by mycologist Pam Catchside. The mushroom was the first verified record of this species in South Australia. An immediate public warning was issued jointly by the University, Health SA and the Botanic Gardens of Adelaide. The last specimen appeared on 27 August and 94 specimens were collected and destroyed.

Horticultural multimedia personality Ms Sophie Thomson was appointed Patron of the Friends of the Arboretum. As part of the Fringe Festival, the Friends conducted various community events, including 'Manipulated', an exhibition in collaboration with Basketry SA which featured art and craft made from recycled Arboretum materials.

The very successful 9<sup>th</sup> National Street Tree Symposium, 'The Role of Trees and Arboriculture in the 21<sup>st</sup> Century', was held in September, attended by 300 delegates.

Friends of Waite Conservation Reserve held 15 working bees and a public lecture by Colin Harris, 'Environmental History of the Adelaide Hills'. A fauna survey was conducted by 25 volunteers over 8 days of intensive mammal and reptile trapping, bird counts and bat recording in collaboration with the Herpetological Society of South Australia and The Mammal Club — Field Naturalists Society of South Australia. Many species were recorded for the first time.

Some 110 volunteers work in Urrbrae House and gardens, the Waite Arboretum and the Waite Conservation Reserve and they continue to make a significant contribution to the overall benefit of the University and the community at large.



## Property and Infrastructure

In 2008, the University delivered significant new capital works as part of the Building Life Impact program established under the University Strategic Plan (2008–2012).

Building Life Impact is a significant investment in the continuous improvement of the University's facilities and infrastructure, encompassing a program of major capital works that is the most ambitious building initiative in the University's history. Spread over four years from 2008, the program will enhance significantly the University's learning and teaching environment, strengthen its research capacity, and contribute to its environmental sustainability.

The delivery of capital works under Building Life Impact was led by the Infrastructure, Property and Technology Branch within the Division of Services and Resources. This branch operates under the

directorship of Ms Virginia Deegan, and was formed in March 2008 following the merger of Property Services and Information Technology Services.

The new Facilities and Infrastructure Strategic Framework 2008–2012 was approved by University Council in December, aligning infrastructure plans with the strategic directions of the University. The Framework sets out physical space requirements in response to the significant growth targets outlined in the University Strategic Plan and identifies the key challenges for the University in terms of quantity of space, quality of facilities and infrastructure, and environmental sustainability.

As one of the State's largest employers and significant consumers, the University acknowledges its responsibility to minimise its ecological footprint and impact on the State's natural resources. In

addition to the sustainability goals of the Building Life Impact program, the Division of Services and Resources has also established the Sustainable Adelaide program. This program, in conjunction with the Sustainability Working Party, oversees and guides exploration of sustainable practices across the University, including involvement in state and federal schemes, and the transformation of business processes.

The University is engaged in several resource management activities to ensure that it is a leader in operational sustainability. In 2008, preliminary investigations were completed for an integrated Water Management Plan for the University. This plan will minimise the use of water in all parts of all campuses, and be supported by a communication and change management strategy to inform and educate staff and students with the objective of influencing behaviour.

## Key infrastructure projects in 2008



### Innova 21, the new Engineering Building

In 2008, work began on Innova 21, the new \$100-million Engineering Building at the North Terrace campus. Innova 21 will cater for the significant growth in students from the Faculty of Engineering, Computer and Mathematical Sciences and will provide more than 11,000m<sup>2</sup> of space for learning, teaching and research. The state-of-the-art building is designed to achieve a 6-Star Green Star Rating and is on schedule for occupation in May 2010.



### School of Veterinary Sciences

A purpose built School of Veterinary Science is under construction at Roseworthy campus to provide facilities for the new program introduced in 2008. This facility will have space for undergraduate, pre-veterinary and postgraduate education and training for students, clinical research, as well as specialist diagnostic and treatment services.



### Institute for Photonics and Advanced Sensing

In December 2008, the Federal Government announced \$28 million in funding to help establish a new Institute for Photonics and Advanced Sensing (IPAS) at the University. The disbursement from the Higher Education Endowment Fund (HEEF) contributes to the development of over 2000m<sup>2</sup> of integrated experimental laboratories for research in photonics and sensing. The facilities will also provide space for collaboration with industry and defence.



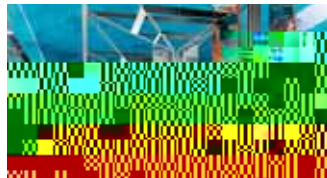
### The Wine Innovation Cluster

The new Wine Innovation Cluster at the Waite Campus was officially opened on 19 November 2008, and is being hailed as the most dynamic mix of grape and wine researchers assembled in one precinct anywhere in the world. The \$32.6-million facility brings together the resources of the Australian Wine Research Institute, CSIRO Plant Industry, private research agency Provisor Pty Ltd, the South Australian Research and Development Institute (SARDI), and the University of Adelaide.



### 10 Pulteney Street

Work to refurbish the 10 Pulteney Street complex continued in 2008 and is well advanced. The refurbishment to eight floors of the 10 Pulteney Street building and two floors of the adjacent Marjoribanks Building will meet the needs of the Faculty of the Professions, providing for the co-location of faculty areas and upgraded facilities for staff and students.



### Hughes Plaza Learning Hub

Planning for the development of a new Student Learning Hub at the North Terrace campus commenced in 2008. To be located next to the Barr Smith Library, the Student Learning Hub will contain lounge, project and study facilities and will create a vibrant, centrally located destination for all campus users. The new facility will centralise non-academic student support and administrative services in one key location and foster interdisciplinary interaction, facilitate informal and social learning, bolster student experience, and encourage on-campus activity.



### Australian Plant Phenomics Facility

The establishment of a new purpose-built greenhouse and research facility at the Waite campus was announced in July 2008 and construction of the Plant Accelerator was due to commence in January 2009 at a cost of \$24.8 million. The largest and most sophisticated public facility of its type in the world, the Plant Accelerator will place Adelaide at the cutting edge of international plant research, and its rapid application to the agriculture and bio-plant industries. The facility is jointly funded by the University and the Commonwealth and State Governments under the National Collaborative Research Infrastructure Strategy.

Images are preliminary artistic interpretations for representational purposes





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