



Annual Report 2011

The University of New South Wales

Never Stand Still





The Tyree Energy Technologies Building is our new home for interdisciplinary energy research and teaching under the umbrella of the Australian Energy Research Institute. This state of the art, 6 Star Green Star building was supported by \$75 million in funding from the Federal Government and a major philanthropic donation from UNSW alumnus Sir William Tyree.



**THE WORLD IS
CONSTANTLY CHANGING
AND EVER SURPRISING.
WE'RE FOCUSED ON
FINDING SOLUTIONS
TO THE BIG ISSUES
OF THE 21ST CENTURY.
UNSW. NEVER STAND STILL.**

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& Vice-Chancellor
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The University's 2011 Financial & Statutory reports
are in Volume 02.

Message from the Chancellor & Vice-Chancellor

This has been an outstanding year for UNSW. The many achievements covered in this report would have been impossible without the efforts of our talented students and staff, and to them we extend a warm 'thank you and well done'.

The quality of our research was recognised with top ratings in the inaugural *Excellence in Research for Australia* report, which evaluated research in the nation's higher education institutions. UNSW was the top-ranking university in NSW and fourth nationally, with the report assessing our performances in all broad fields of research as at, or above, world standard.

In addition, we maintained our place among the world's top 50 universities in the QS rankings, confirming our standing as a leading research-intensive university.

Our focus on quality was also reflected in our student intake, with record demand from the state's top 500 HSC students. And in a turbulent year for international education, with student numbers declining across the board, we met our international enrolment targets while maintaining high entry standards.

Other major achievements in 2011 included the selection of UNSW to lead the new national Centre for International Finance and Regulation, created to assist government, regulators and industry to meet challenges and opportunities in the financial sector, post the Global Financial Crisis.

We became the first university in Australia, and one of the first in the world, to offer the majority of our intellectual property to companies for free on a 'use it or lose it' basis. Easy Access IP aims to turn more university research into real-world applications.

Among major research breakthroughs this year were two world records for efficiency in solar cells and the identification of common genetic contributors to bipolar disorder and schizophrenia.

In 2011 we continued to improve the campus environment for students and staff, with new teaching and research facilities, expanded student accommodation and new study spaces.



President and Vice-Chancellor Professor Fred Hilmer AO and Chancellor Mr David Gonski AC.

The most dramatic addition to the campus was the Tyree Energy Technologies Building, our new home for interdisciplinary energy research. This state of the art, 6 Star energy-efficient building was supported by \$75 million in funding from the Federal Government and a major philanthropic donation from UNSW alumnus Sir William Tyree. It will be officially opened in 2012.

Our vision for a biomedical research precinct is coming to fruition, firstly with the new Lowy Cancer Centre and now the redevelopment of the Wallace Wurth complex, due to be completed in 2014. The complex will house the Kirby Institute for infection and immunity in society (formerly the National Centre in HIV Epidemiology and Clinical Research). Meanwhile the redevelopment of the COFA campus is on track to be completed in 2013.



Our focus on quality was reflected in our student intake, with record demand from the state's top 500 HSC students

UNSW currently offers more student beds than any other university in the state, and we are continuing to expand our student accommodation on campus. In 2011 we embarked on a \$110 million redevelopment of our residential Kensington Colleges and began work on a new self-catered complex. When the colleges re-open in 2014, UNSW will have more than doubled its on-campus student accommodation in four years.

Modern, well-equipped teaching and learning facilities and high-quality sporting venues are vital components of a good student experience. A major capital upgrade program has significantly improved lecture theatres and expanded study spaces across the campus. Some 500 new outdoor student work areas equipped with wireless network access and power supply for mobile devices are proving particularly popular. Off campus, the David Phillips Field, home to UNSW sporting clubs since 1964, is now among the finest university sporting facilities in the state, thanks to a \$10 million redevelopment.

The University achieved sound financial results in 2011, with a small operating surplus. Philanthropic donations to the University continued to rise, with the UNSW Foundation raising more than \$21 million during the year. We would particularly like to acknowledge the generosity of The Atlantic Philanthropies (Australia), which pledged \$10 million over three years to support the Kirby Institute.

UNSW's achievements in 2011 were in no small measure due to effective governance, with the University Council helping to set clear strategic goals. We were pleased when the newly elected NSW Government took action to give all public universities in the state greater flexibility in determining the size and composition of their governing bodies. The UNSW Council resolved in December to adopt these new governance provisions, the most notable being a reduction in council membership from 22 to 15 members. The changes will take effect in 2012 – we are confident they will ensure strong, stable governance into the future.

While we face the future with confidence, the challenges are significant. The need to simplify and streamline regulation is becoming more important. The market for international education has become more difficult and competitive; at the same time funding available from government and students is not keeping pace with the needs of high-quality education and research. Against this background the next few years will be critical. We look forward to working constructively with government and other stakeholders to address these challenges.

REPORT OF THE COUNCIL OF THE UNIVERSITY OF NEW SOUTH WALES

For the period 1 January 2011 to 31 December 2011

In pursuance of the *Annual Reports (Statutory Bodies) Act 1984* (NSW), the Council of the University of New South Wales presents to the Honourable Adrian Piccoli MP, Minister for Education, the following report of the proceedings of the University for the year ended 31 December 2011.

Mr David Gonski AC
Chancellor

Professor Frederick Hilmer AO
President and Vice-Chancellor



UNSW is distinctive in that it's the only Australian research-intensive university established with a unique scientific, technological and professional focus, modelled on universities such as MIT in the US and European technical universities.

At a glance

UNSW is ranked in the top 50 universities worldwide, renowned for research, learning and teaching and for the quality of our graduates.

Established in 1949 to teach and conduct research in scientific, technological and professional disciplines, UNSW is a founding member of the Group of Eight (Go8), a coalition of Australia's leading research-intensive universities, and of the Universitas 21 international network.

We have a proud tradition of sustained innovation, with a focus on practical application and impact. Our world-class research will resonate into the future, from the critical areas of climate change and renewable energies to lifesaving medical treatments and breakthrough technologies. This research attracts significant national and international grant support from government and industry.

With eight faculties in Sydney and the UNSW Canberra campus, UNSW has one of Australia's most diverse student populations. One-third of our students are the first in their family to attend university. We welcome international students from more than 120 countries, and we have extensive global links, with ongoing relationships with more than 200 international universities.

Strategy

B2B Blueprint to Beyond, the UNSW Strategic Intent, reflects the University's fundamental mission of education, research and community engagement. It underpins our Faculty and Divisional plans, and its guiding principles and objectives inform our policies, processes and procedures.

Aspiration

Our aspiration is to continually improve our position as a leading research-intensive university in the Asia-Pacific region, focusing on contemporary and social issues through defined strengths in professional, scientific and technological fields. We seek to make a significant contribution to the development of knowledge, to learning and teaching, to our students, and to society.

Objectives

- Continue to build on our position as a peer of the best globally in research performance, concentrating on defined strengths.
- Develop globally focused graduates who are rigorous scholars, capable of leadership and professional practice in an international community.
- Be a valued partner with key communities, making an impact on contemporary issues.
- Improve underlying leadership and operational capabilities.
- Maximise the availability of resources and the assignment of resources to priority areas.

Guiding principles

In pursuing our aspiration, in terms of the way in which UNSW is led and managed, we value and will embed in what we do:

- Academic freedom
- Leadership
- Innovation, initiative and creativity
- Recognition of merit and excellence
- Integrity and high ethical standards
- Equity, opportunity and diversity
- Mutual respect, collegiality, teamwork and high service standards
- Professionalism, accountability and transparency
- Safety
- Environmental sustainability

Snapshot

2011 Key Statistics

52,284

Student
enrolments

36,844

Student Load
(EFTSU)

20,755

Commencing
Students

14,199

International
Students

229,284

Alumni

5,373

Total Staff
(FTE)

**8 FACULTIES,
1 COLLEGE,
66 SCHOOLS,
97 AFFILIATED
INSTITUTES,
10 RESIDENTIAL
COLLEGES**

2011 Financial Summary

	Consolidated		University	
	2011 \$'000	2010 \$'000	2011 \$'000	2010 \$'000
Total revenue and income	1,044,433	972,034	980,997	892,595
Employee costs	(619,195)	(559,524)	(580,083)	(514,332)
Other expenses	(429,239)	(406,951)	(393,434)	(361,066)
Operating result	(4,001)	5,559	7,480	17,197
Restricted surplus	32,999	35,170	28,616	21,900
Investment earnings	34,518	45,332	34,518	45,332
Income for capital projects	47,502	72,216	47,502	72,216
Asset Transfer ¹	-	-	67,835	-
Loss of deconsolidation ²	(6,941)	-	-	-
Impairment of assets ³	(15,191)	(15,099)	(17,602)	(15,500)
Accounting result	88,886	143,178	168,348	141,145

¹ Receipt of investments from the University of New South Wales Foundation Trust on 1 June 2011.

² Deconsolidation of University of New South Wales International House Ltd as of 1 January 2011.

³ Includes impairment on all assets except for student receivables.

Enrolments by Campus



44,049	Kensington
3,052	COFA
3,387	UNSW Canberra
1,796	Other

Student Mix

- 38,085 local students
- 14,199 international students



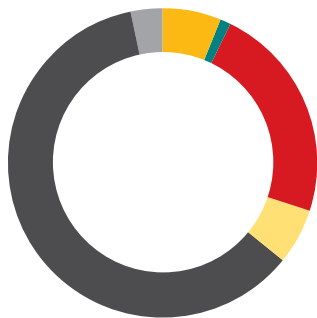
University Staff



2,875	Academic*
2,498	Professional*

*Full-time equivalent (FTE)

Students by Program



3,220	Doctorate
637	Masters research
11,649	Masters coursework
3,280	Grad Dip & Grad Cert
31,676	Bachelor & Diploma
1,822	Cross institution & non-award

Graduate Starting Salaries

Undergraduate

\$55,000

Employment rate

84%

Postgraduate

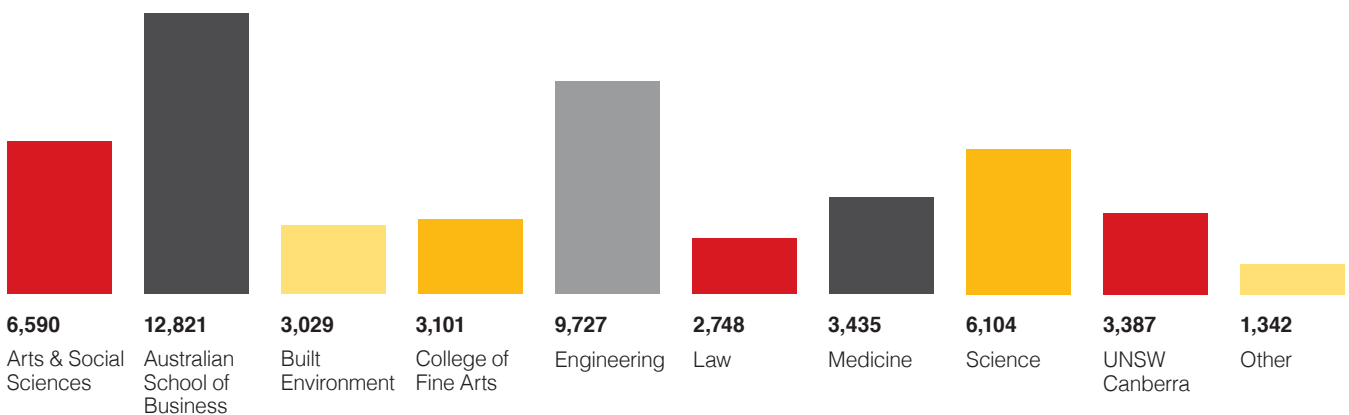
\$90,000

Employment rate

92%

Median salary, Australian Graduate Survey 2011

Students by Faculty



Year in review

January

UNSW's Sunswift solar car – designed and built by students – smashes a Guinness World Record to become the world's fastest solar vehicle, clocking more than 88km/hr.

Professor Patrick Dodson (co-chair) and Associate Professor Megan Davis selected to the Expert Panel on Constitutional Recognition of Indigenous Australians.

UNSW joins forces with some of the country's top hospitals and medical research bodies to form the Academic Health Sciences Centre.

A record 577 students take part in international exchanges to universities around the world.

February

UNSW ranked as the state's top university and the fourth in the country in the *Excellence in Research for Australia* report.

Three prominent UNSW climate scientists Professors Matthew England, Andy Pitman and Dr Lisa Alexander, appointed as expert advisors to the Federal Government's independent Climate Commission.

AGSM MBA ranked as the leading full-time program in Australia and 35th in the world, according to the UK's *Financial Times*.

Associate Professor Christopher Poulos appointed as the founding Chair of Positive Ageing and Care at UNSW, supported by HammondCare.

March

Zimbabwean-born Stephen Chikazaza wins a NSW International Student of the Year award for his community service.

Three world-first clinical trials to tackle one of the most common and aggressive childhood cancers awarded \$6 million in NHMRC funding.

A team of Indonesian and Australian researchers develop a new tracking tool to help authorities reduce HIV infection across the Indonesian archipelago.

Four UNSW researchers elected to the Australian Academy of Science, the highest number for any university in this round.

April

The national HIV Clinical Research Centre turns 25 and launches a new identity as the Kirby Institute, with a \$10 million donation from US-based The Atlantic Philanthropies.

Faculty of Built Environment and City of Sydney sign a memorandum of understanding to boost research in key urban issues.

Jenna Owen graduates as the first Aboriginal optometrist in NSW.

Eight UNSW students join the ranks of Australia's sporting elite winning Ben Lexcen Sports scholarships.

COFA's Professor Richard Goodwin wins the Wynne Prize for his sculpture of a vertical motorbike.

May

One of Australia's pre-eminent journalists, Kerry O'Brien, delivers the flagship Wallace Wurth Memorial lecture.

UNSW hosts the Annual Presidents' Meeting and Global Roundtable of Universitas 21.

Telstra Foundation and film director Phillip Noyce join forces with Football United to train young refugee footballers in digital film making.

US Ambassador Jeffrey Bleich delivers the UNSW Australian Human Rights Centre's Annual Public Lecture.

UNSW is the first university to be named a partner of the Sydney Writer's Festival.

Researchers create the first global tool to forecast the effects of changes in wave patterns and rising sea levels on beach erosion.

June

UNSW is the first Australian university to be awarded five stars in the new QS Stars international benchmarking system.

Using the only microscope of its kind in the country, UNSW scientists are the first to see the inner workings of T-cells, the immune system's front-line troops against infection.

The Centre for Refugee Research hosts the National Refugee Conference as part of commemorations of the 60th anniversary of the Refugee Convention.

Scenario, a world-first film experience using 3D technology and artificial intelligence, developed at iCinema, premieres at the Sydney Film Festival.

Law professor George Williams appointed an Officer of the Order of Australia.

July

A consortium of leading universities and financial institutions, led by UNSW, is selected to form the national Centre for International Finance and Regulation.

UNSW solar cell researchers break two world records for efficiency in solar cells.

The outstanding contributions of UNSW staff are recognised with seven citations from the Australian Learning and Teaching Council.

Chief Scientist Professor Ian Chubb launches the Australian Centre for NanoMedicine at UNSW.

UNSW will lead two new Translational Cancer Research Hubs supported by \$30 million from the NSW Government.

August

UNSW receives a glowing review from AUQA, commending our governance and management, research training and internationalisation.

Federal Minister for the Arts, Simon Crean, launches construction of the \$58 million redevelopment of COFA.

Professors Michael Keane and Ian Petersen are recognised among Australia's leading researchers with ARC Laureate Fellowships.

UNSW Canberra's Dr Sameer Alam named the 2011 ACT Young Tall Poppy of the Year for his research in modelling of air traffic systems.

The University scores eight five-star ratings in the 2012 *Good Universities Guide*.

September

Entrepreneur and novelist John M Green donates \$500,000 for new scholarships to help disadvantaged students study law.

Technology to reduce carbon emissions steel production wins Professor Veena Sahajwalla a Telstra NSW Business Award.

Three researchers win top honours at the Eureka Prizes, with UNSW receiving a record 11 finalist nominations.

UNSW's international reputation as a leading research-intensive university is reinforced with its QS ranking in the world's top 50.

Shalom College hosts the biggest-selling exhibition of contemporary Aboriginal art in Australia, with proceeds supporting residential scholarships at UNSW.

October

UNSW postgraduates have the highest median starting salaries in Australia, at \$90,000, and one of the highest employment rates at 92 per cent.

David Phillips Field opened after a \$10 million redevelopment, creating one of the finest university sporting facilities in the state.

UNSW wins funding for three new Centres of Excellence to drive research into the treatment of brain injuries, immunising at-risk populations, and e-Health.

Professor David Black is honoured with election to the post of Secretary General of the International Council for Science.

UNSW teams up with major industry partner, Thales, to establish a new masters program in space engineering research.

November

Quantum computing trail-blazer Professor Michelle Simmons wins the 2011 NSW Scientist of the Year award.

UNSW researchers top the state in the latest round of ARC grants, receiving \$33 million for 110 projects.

Francesca Garnett is the 2011 Rural Medical Student of the Year, with UNSW alumnus Dr Grahame Deane named Rural Doctor of the Year.

UNSW announces Easy Access IP, a radical scheme offering most of its intellectual property to companies for free.

UNSW will lead a new Cooperative Research Centre for Low Carbon Living.

The Danish Royals open an exhibition, *Curating Cities: Sydney – Copenhagen*, produced by COFA with the Danish Arts Agency.

December

The \$125 million Tyree Energy Technologies Building is completed, receiving a 6 Star Green Star rating.

UNSW announces a \$110 million two-year redevelopment of its residential colleges as part of a major expansion in student accommodation.

Vice-Chancellor Professor Fred Hilmer appointed Chair of the Group of Eight universities.

UNSW's innovative social equity initiative, the ASPIRE program, awarded a major federal funding boost of \$4.6 million.

UNSW Press caps off a great year in book publishing with double wins in the Prime Minister's Prize for Australian History.

The Balnaves Foundation pledges \$1.5 million to Nura Gili for a new facility for Indigenous education and student support on campus.



We seek to make a significant contribution to the development of knowledge, to learning and teaching, to our students, and to society.



Governance

With strong governance and management, UNSW is well positioned to face the challenges and grasp the opportunities ahead.

UNSW Council

The University is governed by a Council of 22 members, led by the Chancellor. Members represent the interests of the University and community, contributing expertise in a range of areas, including finance, commercial activities, law, governance and management, and planning and development.

Official Members

Chancellor
Mr David M. Gonski AC
BCom, LLB *UNSW*, FAICD, FCPA

President and Vice-Chancellor
Professor Frederick G. Hilmer AO
LLB *Syd*, LLM *Pennsylvania*, MBA
Wharton, FCPA

President of the Academic Board
Professor Prem Ramburuth
BA, DipEd *South Africa*, MEd *Sydney*,
EdD *UNSW*, Licentiate *RAM, London*,
GradDipEd TESOL *South Australia*,
MAICD

Ministerial appointments

Mr Matthew Grounds
BCom LLB *UNSW*

Dr Wallace King AO
BEng MEngSc Hon DSc *UNSW*,
Hon FIEAust, CPEng, FAICD,
FAIM, FAIB, FTSE

Mr Warwick Negus
BBus *UTS*, MComm *UNSW*,
FFin, MAICD

Mr Paul R. Pearce
MA *Syd*, LLB (Hons) *London*

Ms Jillian S. Segal AM
BA LLB *UNSW*, LLM *Harvard*, FAICD
Deputy Chancellor

One vacancy

Elected members

Dr Jennifer Alexander
MBBS (Hons), MHP, MComm *UNSW*,
FAFPHM (RACP), FRACMA, FACHSE,
FAIM, FAICD

Mr Nicholas Carney
BCom, LLB *UNSW*

Dr Christine Clifton
MB BS (Hons) BHA *UNSW*

Professor Anthony H. Dooley
BSc, PhD *ANU*

Ms Evelyn Douek

Ms Janina Jancu
BA, LLB *UNSW*, MBA *Syd*, GAICD

Professor Rakesh Kumar
MBBS *All-India IMS, New Delhi*, PhD MD
UNSW FRCPA (Hon)

Mr Geoffrey Lawson OAM
BOptom *UNSW*, OAA

Mr Simon Lindsay
BA, MA *UNSW*

Dr Elizabeth McMahon
BA (Hons), PhD *Syd*

Professor Joseph A. Wolfe
BSc *Qld*, BA *UNSW*, PhD *ANU*

Members appointed by Council

Mr Terry Davis
Mr Brian Long FCA

Former members

The Honourable Susan M. Ryan AO was a member from the beginning of the year and completed her term of office on 30 June 2011. Professor Janet Chan was a member from the beginning of the year and completed her term of office on 31 July 2011.

Academic Board

The Academic Board is the principal academic body of the University, responsible for academic standards and for formulating and recommending policy. Comprising 56 members, the Board advises the Vice-Chancellor and Council on matters relating to teaching, scholarship and research and takes decisions on delegation from Council. Its functions are conferred under the University By-Law.

Management

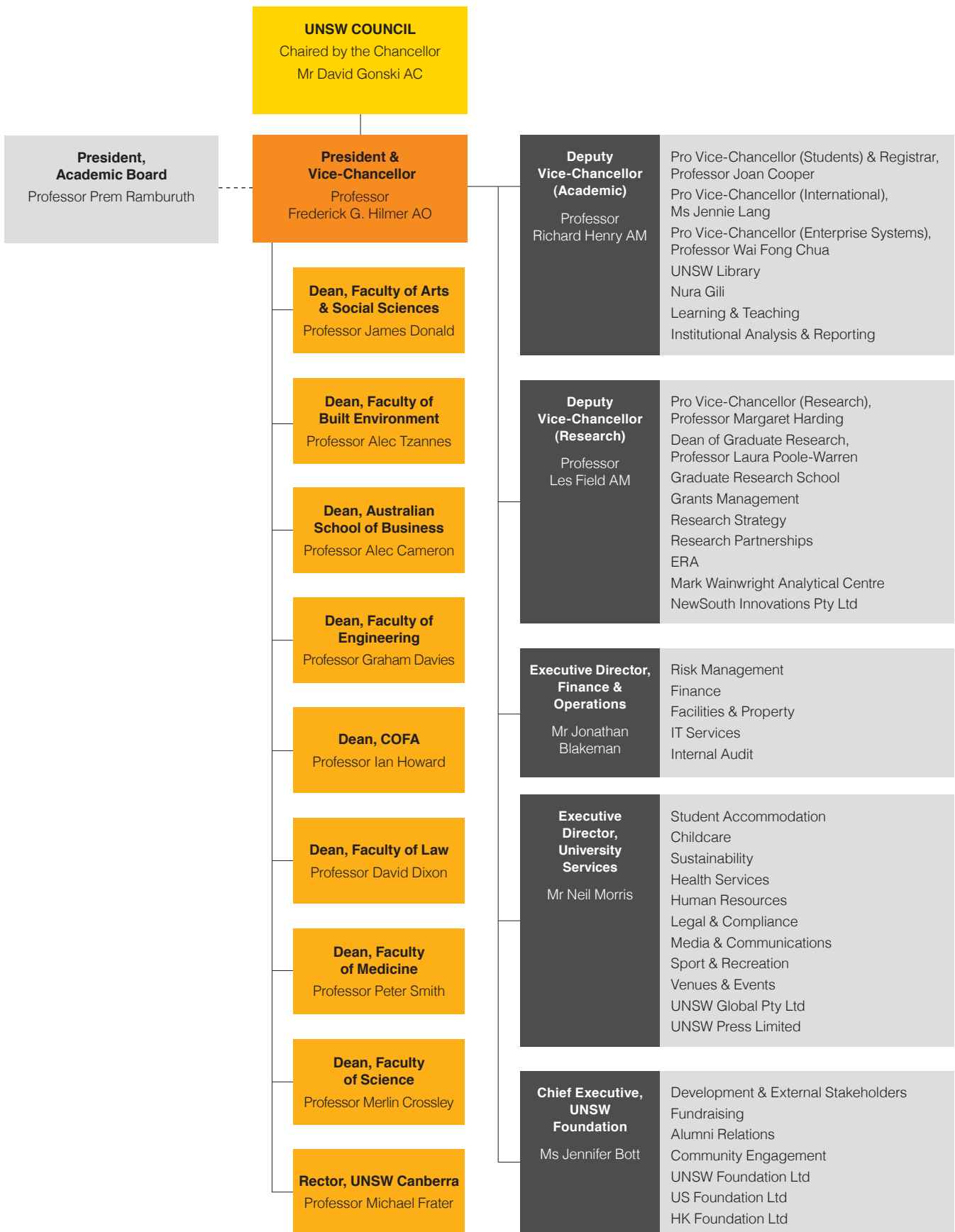
The Vice-Chancellor is the principal executive officer of the University and is responsible for the overall direction of corporate planning, budget activities and external relations. Under the Council, the Vice-Chancellor manages and supervises the administrative, financial and other activities of the University.

Reporting to the Vice-Chancellor is an Executive Team, eight Faculty Deans and the Rector of UNSW Canberra, who have significant delegated authority in relation to their areas.

More information on the Executive Team, Deans and senior officers can be found on p46.

Organisational chart

As at 31 December 2011



Our success in winning fellowships and major national and international awards reflects the depth of our research talent. In 2011, quantum computing trail-blazer Professor Michelle Simmons was named the NSW Scientist of the Year.



Research

UNSW's rankings confirm us as one of Australia's leading research-intensive universities. Our high-quality, real-world research combined with extensive industry partnerships ensure we make an impact nationally and around the globe.

TOP

**RANKED UNIVERSITY
IN NSW BY THE
EXCELLENCE IN
RESEARCH FOR
AUSTRALIA REPORT**

HIGHEST

CITATIONS PER PAPER
OF ANY AUSTRALIAN
UNIVERSITY IN 26 AREAS

BEST

RESULT IN NEW NHMRC
CENTRES OF RESEARCH
EXCELLENCE

GLOBAL

RANKED 49TH IN THE
WORLD BY GLOBAL QS
RANKINGS

FELLOWSHIPS

TWO NEW ARC LAUREATE
FELLOWSHIPS

PARTNERS

NEW AGREEMENT WITH
THE BLACK DOG INSTITUTE,
A LEADING MEDICAL
RESEARCH INSTITUTE
AFFILIATED WITH UNSW

EXCHANGE

LAUNCHED EASY ACCESS
IP, OFFERING MOST OF OUR
INTELLECTUAL PROPERTY TO
COMPANIES FOR FREE

Boost for low carbon future

A UNSW team headed by Professor Deo Prasad is leading the new Cooperative Research Centre (CRC) for Low Carbon Living, which won \$28 million from the Federal Government in 2011. The CRC brings together key property, planning and policy organisations working with several universities to develop tools for reducing greenhouse gas emissions in the built environment. "The CRC will help unlock barriers to cost-effective carbon-saving opportunities, empower communities and facilitate the widespread adoption of local renewable energy," says Professor Prasad, Program Director at the Faculty of Built Environment. UNSW researchers will also play a key role in the CRC for Polymers, which received \$14.5 million in funding.



L-R: Associate Professor Alistair Sproul and Professor Deo Prasad. Photo: Prudence Upton.

Research excellence

UNSW received the top ranking in NSW by the 2011 Excellence in Research for Australia report, the first ever assessment of its kind. We were one of only four universities nationally to receive an average rating greater than "above world standing". Our result – 4.04 out of a maximum five – was based on our performance in all broad fields of research. In 33 subject areas, UNSW received the highest or equal highest rating.

In other rankings we moved up a spot in The Times/Thompson table to fifth in Australia, maintained our position in the QS global ranking as one of the world's top 50 universities, and improved our position in the Shanghai Jiao Tong rankings.

These strong results highlight the quality of our researchers, whose work made an impact nationally and internationally and attracted numerous honours, prizes and fellowships.

Our strong industry links continue to position us as one of the top performers in our pursuit of real-world research and support of innovative partnerships in applied research.

Research funding

Our total research income reported in the 2011 HERDC return increased by \$12 million, securing our position in the top three in Australia. Overall, we were the only Group of Eight (Go8) university to increase its percentage share of the Commonwealth's Research Block Grant funding, a good relative measure of national research performance.

We were awarded the third highest of the Go8 in total ARC grant funding announced in 2011. Central to our success was the top result in the Linkage Infrastructure, Equipment

and Facilities (LIEF) scheme, winning \$3.9 million for 10 projects. The largest grant of \$1 million, led by Professor Andrew Dzurak in the Faculty of Engineering, will establish an advanced materials fabrication facility with application across physics, nanocomposites, energy storage and solar cells.

In Discovery Project grants, we recorded a significant increase in our share of total funding, winning the third-highest number of new grants nationally. We also increased the success rate of our applications to 27 per cent.

Researchers were awarded \$33 million for 110 projects, to be funded from 2012. The largest grant of \$750,000 was made to a team led by Professor Robert Kohn at the Australian School of Business, whose research will support the development of new models for analysing socio-economic and financial data.

UNSW was also awarded two projects under the Discovery Indigenous scheme. The largest grant of \$693,000 will support a cross-faculty team, led by Professor Martin Nakata at Nura Gili, to identify more effective ways of supporting Indigenous students moving from TAFE to university.

UNSW was successful in 14 Linkage Project grants, worth \$3.8 million, the best result in NSW. The largest – more than \$500,000 – was awarded to a team led by Professor Iain Suthers in the Faculty of Science to investigate the viability of artificial reefs off Sydney to enhance recreational fishing. The Linkage projects, undertaken in collaboration with industry and government agencies, attracted a further \$9.5 million from partner organisations.

We continued our strong performance in obtaining prestigious fellowships. Professor Michael Keane of the Australian School of Business and Professor Ian Petersen from UNSW Canberra were awarded ARC Laureate Fellows in 2011, taking the number of Laureates at UNSW to seven.



ARC Future Fellow Professor Jane McAdam. Photo Maja Baska.

Law's bright future

Of the six ARC Future Fellowships in law awarded nationally to the country's best and brightest mid-career researchers in 2011, UNSW won two. Professor Jane McAdam will look at potential legal responses to climate change displacement, in particular the feasibility of the relocation of whole communities in the Pacific. Professor Bronwen Morgan's grant will enable her to examine responses to environmental change at the intersection of rights and regulation. In total, 15 UNSW researchers were awarded Future Fellowships, worth \$10.8 million, along with 28 Discovery Early Careers Awards.

We were awarded 15 Future Fellowships, worth \$10.8 million, as well as \$10.5 million for 28 Discovery Early Career Researcher Awards.

Our researchers in medicine and science had a particularly successful year in National Health and Medical Research Council (NHMRC) grants, receiving a total of \$46 million in the October 2011 round. Overall, UNSW had the second-highest increase in total NHMRC funding among the Go8, with the average project grant size increasing by eight per cent over the previous year. These results helped push up our ranking from sixth to fourth nationally.

One of the largest Project grants, worth \$1.97 million, was awarded to Professor Richard Mattick, from the National Drug and Alcohol Research Centre, for a randomised controlled trial of a financial counselling intervention and smoking cessation assistance for disadvantaged groups.

Research partnerships

In 2011, we established the Research Partnerships Unit to identify, establish and manage Australian and international partnerships with industry, governments and affiliated organisations.

We completed an agreement with the Black Dog Institute, which joins our group of affiliated Medical Research Institutes: Neuroscience Research Australia, Victor Chang Cardiac Research Institute, Garvan Institute of Medical Research and Children's Cancer Institute Australia.

Centres of Excellence

A highlight in 2011 was the selection of UNSW to host the new national Centre for International Finance and Regulation, a consortium of leading Australian and international universities and research centres created to assist government, regulators and industry to meet the challenges and opportunities in the financial sector.

The Federal Government committed \$12 million over four years to establish the Centre, with the NSW Government providing an additional \$6 million. A further \$6 million has come from corporate sources and partner institutions along with \$17 million of in-kind support.

UNSW was awarded \$7.5 million for three NHMRC Centres of Research Excellence (CRE) to drive investigations into the treatment of traumatic brain injuries, immunising at-risk populations, and e-Health. They draw on expertise across a range of partner universities, hospitals and research institutes.

The CRE in Traumatic Brain Injury, led by Professor Skye McDonald, is the first centre in the world to take a multidisciplinary, multi-site approach to addressing the rehabilitation of people with brain injury.

Led by Professor Raina MacIntyre, the CRE in Immunisation will address research gaps in at-risk populations, such as older and Indigenous Australians, migrants and refugees, where targeted research is not commercially viable.

The CRE in e-Health will work to improve the quality, safety and effectiveness of health services. Led by Professor Enrico Coiera, the Centre will support the design, evaluation and use of e-Health systems.



PhD candidate Marie Attard with a thylacine skull. Photo: Christopher Hammang.

Tassie Tiger not guilty

Australia's iconic thylacine, or Tasmanian tiger, was hunted to extinction for allegedly killing sheep, but in fact it had such weak jaws its preferred prey was probably no bigger than a possum, a study found. "Our research has shown that its rather feeble jaw restricted it to catching smaller, more agile prey," says study lead author, ecologist and doctoral student Marie Attard from UNSW's Computational Biomechanics Research Group. Dr Stephen Wroe, the Group's Director, says it was possible to predict the likely body size of the prey by comparing the skull of the extinct thylacine with those of closely related living species.

Under the Commonwealth's Cooperative Research Centre (CRC) scheme, UNSW was selected as the lead institution in the Low Carbon Living centre, receiving \$28 million in funding in December 2011. Led by Professor Deo Prasad, the CRC aims to develop new social, technological and policy tools for reducing greenhouse gas emissions in the built environment. UNSW is also a key player in the new CRC for Polymers.

Leading researchers

Our success in winning fellowships, major national and international prizes and awards reflects the depth of our research talent.

Along with our two new ARC Laureate Fellowships, four UNSW researchers were elected in 2011 to the Australian Academy of Science, the highest number for any university in the round.

Early career researcher highlights included the Young Tall Poppy awards and the Edgeworth David Medal, awarded to a UNSW researcher for the third consecutive year. Associate Professor Angela Moles received the honour in 2011, along with the Eureka Prize for Outstanding Young Researcher. She was one of 11 UNSW finalists in the 'Oscars' of science run by the Australian Museum, our best showing in the program's 22-year history.

Major fellowships and prizes awarded in 2011

ARC Australian Laureate Fellowships

Professor Michael Keane, Australian School of Business
 Professor Ian Petersen, School of Engineering and Information Technology, UNSW Canberra

Australian Academy of Science Fellowships

Professor David St Clair Black, School of Chemistry
 Professor Staffan Kjelleberg, School of Biotechnology and Biomolecular Sciences
 Professor Ian Petersen, School of Engineering and Information Technology, UNSW Canberra
 Professor Aibing Yu, School of Materials Science and Engineering

Edgeworth David Medal

Associate Professor Angela Moles, School of Biological, Earth and Environmental Sciences

NSW Scientist of the Year

Professor Michelle Simmons, School of Physics and ARC Centre of Excellence for Quantum Computation and Communication Technology

NSW Science and Engineering Awards

Climate Change and Environment: Professor Stuart Wenham, School of Photovoltaic and Renewable Energy Engineering

Biomedical Sciences and Engineering: Professor Michelle Haber, Children's Cancer Institute Australia

Emerging Research: Professor Rose Amal, School of Chemical Engineering



ACT Young Tall Poppy of the Year, Dr Sameer Alam. Photo: David Paterson.

High flyer

Dr Sameer Alam's research in advanced air traffic systems won him the 2011 ACT Young Tall Poppy of the Year Award and the ANU Science Medal. Based in the School of Engineering and Information Technology at UNSW Canberra, Dr Alam was recognised for developing the Air Traffic Operations and Management Simulator. "This award motivates me to further my research efforts towards enabling safe, efficient, robust and green air transportation," he says. The Young Tall Poppy awards, presented by the Australian Institute of Policy and Science, recognise early career researchers across Australia who have achieved significant scientific milestones and communicated their work to the broader community. Three UNSW-affiliated researchers, Melissa Green, Eddy Pasquier and Nicola Smith, were honoured in the NSW awards.

Invention: Associate Professor Thorsten Trupke, School of Photovoltaic and Renewable Energy Engineering

Mathematics, Earth Sciences, Chemistry, Physics and Astronomy: Professor Michelle Simmons, School of Physics and ARC Centre of Excellence for Quantum Computation and Communication Technology

Officer of the Order of Australia (AO)
Scientia Professor George Williams, Gilbert + Tobin Centre of Public Law, Faculty of Law

Member of the Order of Australia (AM)
Dr Michael Dudley, Senior Lecturer (Conjoint) School of Psychiatry
Professor Les Field, Deputy Vice-Chancellor (Research)
Professor Lisa Jackson-Pulver, School of Public Health and Community Medicine
Professor Kerryn Phelps, (Conjoint) School of Public Health and Community Medicine
Scientia Professor Perminder Sachdev, School of Psychiatry

Eureka Prizes for Scientific Research
Scientia Professor Andrew Dzurak and Dr Andrea Morello, School of Electrical Engineering and Telecommunications

Eureka Prize for Outstanding Young Researcher

Associate Professor Angela Moles, School of Biological, Earth and Environmental Sciences

ACT Young Tall Poppy of the Year

Dr Sameer Alam, School of Engineering and Information Technology, UNSW Canberra

NSW Young Tall Poppy Awards

Dr Melissa Green, Faculty of Medicine
Dr Eddy Pasquier, Children's Cancer Institute Australia
Dr Nicola Smith, Victor Chang Cardiac Research Institute

Nokia Business Innovation Award

Professor Veena Sahajwalla, Sustainable Materials and Research Technology Centre

Priestley Medal of the Australian Meteorological & Oceanographic Society

Dr Lisa Alexander, Climate Change Research Centre

Cornforth Medal of the Royal Australian Chemical Institute

Dr Mohammad Choucair, School of Chemistry, for best PhD thesis

Research outputs

In 2011, UNSW improved its ranking to become the top-placed university in the Go8 for publications. We had a nine per cent increase in unweighted research publications from 4,004 in 2009 to 4,367 in 2010.

In 26 areas, UNSW has the highest citations per paper of any Australian university (2006-2010). We ranked number one in a number of specific areas including psychiatry, psychology, evolutionary biology, criminology and penology, neuroscience and nanotechnology, chemical engineering, Asian studies and substance abuse.

In 2011, UNSW became the first university in Australia, and one of the first in the world, to offer the majority of its intellectual property to companies for free.

Three minutes to change the world

Jenny Liu from the Prince of Wales Clinical School won the UNSW Three Minute Thesis (3MT) competition for her presentation on folate and bowel cancer prevention. She was one of 24 of our best and brightest PhD candidates to pitch their research discoveries to a panel of high-profile judges, Professors Nicholas Cowdery and Keith Mason, science communicator Bernie Hobbs and TV host Lily Serna. "Our research students are the engines of the research 'machine' at UNSW and Three Minute Thesis is a fantastic opportunity for them to let the rest of the world know what great research is happening here," says Professor Laura Poole-Warren, Dean of Graduate Research.



Professor Laura Poole-Warren and Jenny Liu. Photo: Jayne Ion/B-Side Design.

Intellectual property

In 2011, UNSW became the first university in Australia, and one of the first in the world, to offer the majority of its intellectual property (IP) to companies for free. A new and more liberal approach to IP management, Easy Access IP aims to turn more university research into real-world applications. The strategy is being implemented by NewSouth Innovations (NSi), the university's commercialisation company.

The first deal forged under the new framework was signed in December. A commercial wind power forecasting system called Wind Insight, based on the work of former engineering PhD student, Nicholas Cutler, was released to an industry partner. The system aims to provide greater security to Australia's electricity power systems.

Higher degree research

A comprehensive review of our doctoral program was conducted in 2011 with the aim of identifying the strengths and weaknesses of the current system.

The review found that the PhD remains our premier research degree and continues to meet the needs of candidates and employers.

A new UNSW Joint PhD Policy was approved and an agreement signed with Go8 partners in Australia as well as with our U21 partners internationally.

Higher Degree Research (HDR) completions increased by eight per cent between 2009 and 2010, putting us third in the Go8 on this measure.

Our postgraduate research commencing load continued to increase and we recorded the second highest growth rate in the Go8. Acceptances from top domestic candidates (Honours I and Honours I equivalent) for Australian Postgraduate Awards increased by six per cent in 2011. For high performing international candidates (Honours I and Honours I equivalent) there was a 26 per cent increase for International Postgraduate Research Scholarships.

Research training

There was a nine per cent increase in the number of high quality HDR candidates supported by the UNSW Postgraduate Research Support Scheme to present at international conferences.

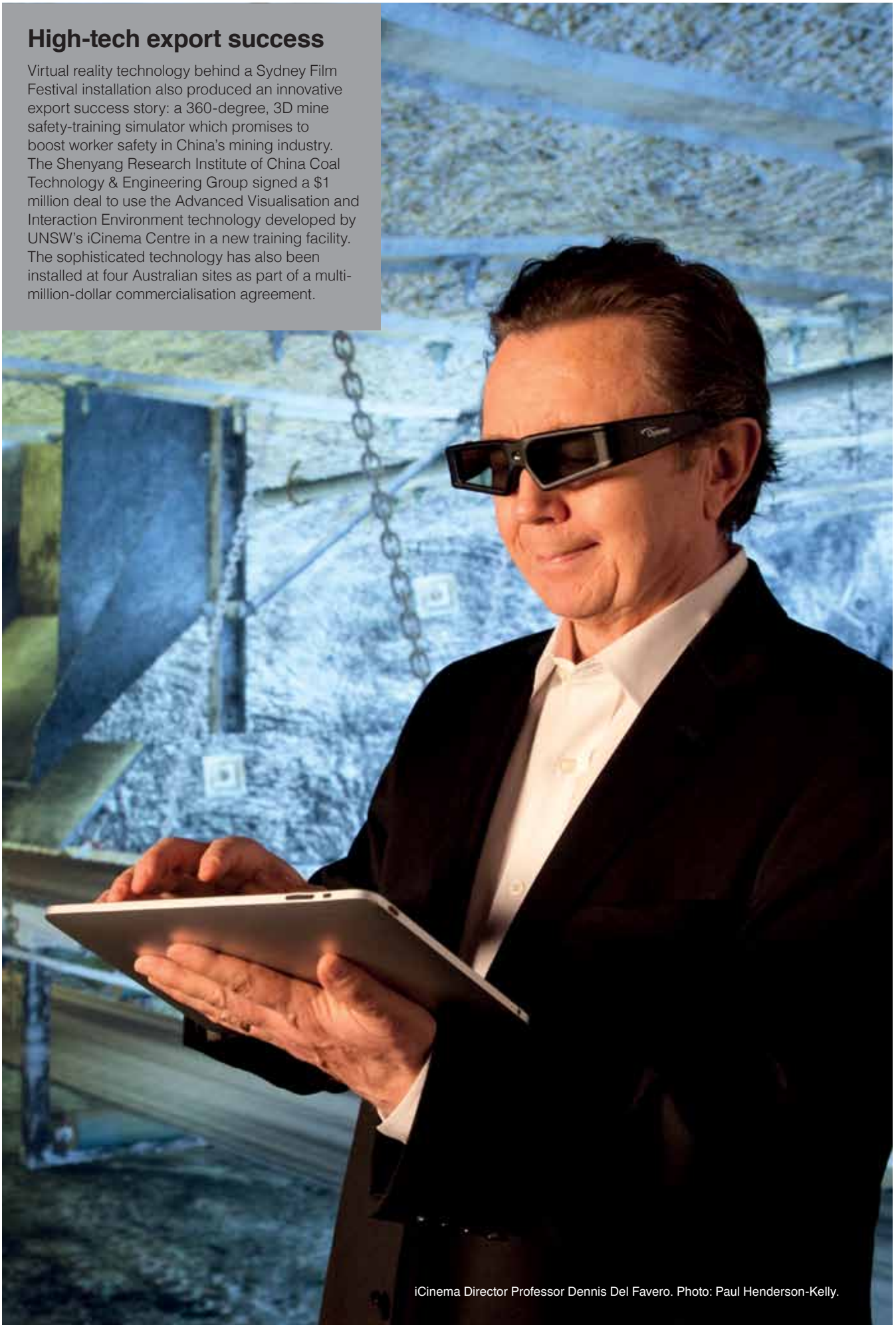
More than 90 per cent of HDR students attended Graduate Research School (GRS) induction programs on the range of services and support available. Seminars for HDR candidates on thesis submission and the annual progress review process were well attended at both the Kensington and Canberra campuses. The inaugural Postgraduate Coordinator Practice Sharing Workshop on 'Developing Research Communities' was also well attended.

The 2011 UNSW 3 Minute Thesis Competition, hosted by the GRS, was a great success with a record number of participants across all Faculties. The competition provides a unique opportunity to hone communication and presentation skills.

The supervisor program delivered by the Researcher Development Unit was redesigned in consultation with the Dean of Graduate Research and significantly expanded in 2011.

High-tech export success

Virtual reality technology behind a Sydney Film Festival installation also produced an innovative export success story: a 360-degree, 3D mine safety-training simulator which promises to boost worker safety in China's mining industry. The Shenyang Research Institute of China Coal Technology & Engineering Group signed a \$1 million deal to use the Advanced Visualisation and Interaction Environment technology developed by UNSW's iCinema Centre in a new training facility. The sophisticated technology has also been installed at four Australian sites as part of a multi-million-dollar commercialisation agreement.



iCinema Director Professor Dennis Del Favero. Photo: Paul Henderson-Kelly.



UNSW graduates enjoy some of the highest median starting salaries and employment rates in the country. Our postgraduates ranked first at \$90,000 and our undergraduates equal second at \$55,000.

Student Experience

Our diverse student population is globally focused and in high demand. Innovative teaching and extensive international and industry links give our graduates a competitive edge.

RECORD

NUMBER OF OFFERS TO
**THE STATE'S TOP 500
HSC STUDENTS**

HIGHEST

MEDIAN STARTING
SALARIES FOR
POSTGRADUATES IN
AUSTRALIA, AT \$90,000

\$4.6M

FEDERAL FUNDING BOOST
TO THE ASPIRE PROGRAM,
AN INNOVATIVE SOCIAL
INCLUSION INITIATIVE

FIVE STARS

SCORED MAXIMUM FIVE-
STAR RATING FOR EIGHT
KEY PERFORMANCE
INDICATORS IN THE LATEST
GOOD UNIVERSITIES GUIDE

ADVANTAGE

STUDENTS CAN CHOOSE
FROM MORE THAN 500 CO-
CURRICULAR ACTIVITIES TO
GAIN EXTRA SKILLS

GLOBAL

100 NEW AGREEMENTS
WITH OVERSEAS PARTNERS
AND A RECORD NUMBER
OF EXCHANGE STUDENTS

SUPPORT

MORE SCHOLARSHIPS
OFFERED IN 2011, INCLUDING
OVER 100 CO-OP PLACES
SPONSORED BY INDUSTRY

Design wave

The drowning tragedy of a fellow Queenscliff surf club member led Chris Fox to design a self-inflating life jacket, winning him a coveted James Dyson Award. The '9th Life' wetsuit jacket monitors oxygen levels and automatically inflates when the user is at risk of drowning, bringing them into a safe upright position and signalling for help via GPS. "I like the challenge of solving problems and looking for solutions that will make a difference to people's lives. I also enjoy the hands-on experience of designing, testing and building products." Chris, 23, graduated with a Bachelor of Industrial Design with first-class honours. He was one of four finalists from the Faculty of Built Environment vying for the awards.



Graduate Chris Fox with his award-winning life jacket design. Photo: Craig Sillitoe/fairfaxphotos.com.

High demand

Continued strong demand from school leavers pushed up ATAR cut-offs. We made a record number of main-round offers to the state's top 500 HSC students.

Offers to the Elite Athletes and Performers Program almost doubled in the past year to 277. The program offers bonus entry points to students who have demonstrated excellence in sport, performing arts, scholastic achievement or leadership at a national or international level.

Five-star rating

We again scored the maximum five-star rating for eight key performance indicators in the Good Universities Guide, which describes UNSW as having "an international focus, and believes that it is important to be open to the world through education and research".

We were ranked in the top group for all three measures of graduate employment: getting a job, starting salaries and positive graduate outcomes. We also achieved five-star results in student demand, research grants, research intensity, staff qualifications and cultural diversity.

Graduate outcomes

UNSW maintained a leading position with postgraduates achieving the highest median starting salaries in the country, at \$90,000, and one of the highest employment rates at 92 per cent. For undergraduates, the median starting salary was \$55,000 with an employment rate of 84 per cent, according to the Australian Graduate Survey 2011.



International Student of the Year

Stephen Chikazaza's work as a peer mentor, student advocate and fundraiser was recognised by the NSW Government with a 2011 International Student of the Year Award. The Zimbabwean postgraduate has now completed a Master of Integrated Design at COFA. "Stephen exemplifies community spirit and has maintained an excellent academic record while being involved in all aspects of student life in Sydney," notes the citation in the Higher Education category. "Winning the award is a great honour for my family and those that have invested in me, especially Student Development International at UNSW," Stephen said. Two other UNSW students were among the finalists for the inaugural awards – Telma Joana and Melody Wang. Joana, a GP from Timor-Leste, won an AusAID scholarship to UNSW to study a Master of International Public Health and Health Management. She also received a Prime Minister's Pacific-Australia Award. Wang, from China, is studying music and education.



Francesca Garnett with her mother Jan Schlunke. Photo: Rural Health Workforce.

Rural medicine blitz

Fourth-year arts/medicine student Francesca Garnett's passion for rural medicine saw her named the 2011 Rural Medical Student of the Year. Now studying a Masters in Public Health based in Wagga Wagga, Francesca is co-chair of the National Rural Health Students Network, which aims to recruit students to work in the bush and equip them with the skills to live there. "Joining the Rural Health Club has linked me up with students all over the country who will become my future colleagues," says Francesca. Rural Doctor of the Year was awarded to UNSW alumnus Dr Grahame Deane. UNSW has Rural Medicine Schools in Wagga Wagga, Port Macquarie, Coffs Harbour and Albury Wodonga.

Staying relevant

UNSW launched the Advantage program to give students an even stronger competitive edge in the job market. Students can choose from more than 500 co-curricular activities to gain additional attributes such as communication, problem-solving and teamwork skills. We were the first university to introduce supplementary transcripts to recognise student achievement outside formal study. Advantage takes this a step further, providing a one-stop shop for students. All activities completed – from voluntary work, internships and peer mentoring – appear on their Australian Higher Education Graduation Statement (AHEGS).

Undergraduate program simplification

In 2011 a major review of all undergraduate programs was undertaken to ensure that a consistent curriculum philosophy was applied across all Faculties. This philosophy emphasises student choice with the ability to study in other Faculties, flexibility of study with dual degrees, and ease of program transfer. It will also enable UNSW to provide high quality self-help options in important areas such as academic advice, enrolment, progression and graduation.

Academic programs

Our new programs and specialisations approved in 2011:

- Bachelor of Engineering / Master of Engineering (dual degree)
- Master of Engineering (Satellite Systems)
- Master of Marine Science and Management
- Graduate Diploma/GradCert of Conservation Biology (exit programs to Masters)

- Master of Financial Economics
- Master/GradDip/GradCert of Financial Planning
- Master of Capability Management
- Master of International Law and Security
- Master/GradDip of Law, Media and Journalism
- Master of Public Health – new specialist stream, Aboriginal Health and Wellbeing

International students

In 2011, we welcomed our largest cohort of full-degree international students, with more than 12,000 enrolments. Despite turbulence in the international sector due to strong competition, the high Australian dollar and uncertainty surrounding visa reform, growth was strong from China, Iran, Saudi Arabia, Myanmar, The Philippines, Oman, Libya and Korea.

We further expanded our extensive global links, signing 101 new and renewed agreements including Memoranda of Understanding, Student Exchange, Practicum Exchange and Articulation Agreements with a range of leading universities in 26 countries. A number of strategic staff appointments offshore were created to bolster our recruitment reach in North America, Indonesia, Hong Kong, Vietnam and Germany.

In recognition of the high level of student demand for global education, we worked with key partner institutions such as the Universitas 21 network to increase our capacity for student exchange.

In 2011, a record 577 UNSW students embarked on outbound exchange placements. An additional 590 students participated in international internships, summer school, study tours, exchange and volunteer abroad opportunities and we welcomed 210 students from some of the world's top universities through the Practicum Exchange Program.



Head start for industry scholars

Valued at \$16,750 a year, the prestigious UNSW Co-op Program scholarships give students real workplace experience on multiple industry placements, putting them ahead of the competition when it comes to graduate recruitment. Rachel Folder, pictured, started her degree in Actuarial Studies in 2011: "What's really unique about the Co-op Program is meeting so many like-minded people, studying across such a wide range of areas."



Photo: Maja Baska.

More student space

A major capital upgrade program to expand student study and lounge spaces is being rolled out across the University. With the clear aim of enhancing the student experience, 500 external seats have been installed in seven campus locations with the new outdoor study spaces supported by wireless network access and power points to charge laptops and other portable devices. This builds on the state-of-the-art student hubs in the main library and Eora Exchange centre.

Scholarships

We expanded our scholarship support to students in 2011, with the total number of places on offer now exceeding 1,500.

Successful UNSW Alumni Appeal campaigns in 2011 contributed towards 20 new equity scholarships and the Federal Government allocated 89 new scholarships for Indigenous students.

UNSW Scientia Scholarships and Academic Achievement Awards (AAA) continued to grow in popularity, with an 11 per cent increase in the number of students nominated for AAAs by high schools in NSW and the ACT.

Industry partners

The UNSW Co-op Program offered 102 scholarships in 2011, a growth of 20 per cent on 2010. More than 130 of Australia's leading companies take part in professional and career development for top UNSW students and provide more than \$6 million a year in funding. The Co-op team also expanded the Graduate Advantage Program (GAP), which accepted 61 students. GAP is a series of lectures, workshops and assessments delivered by industry partners in their workplace to assist students in applying for internships and entering the job market.

UNSW Library

Building on the success of a major expansion of the Library in 2009, an additional student lounge was added along with a new service area known as the Help Zone. This area has staff roaming and interacting directly with library users. This more welcoming approach has received very positive feedback. The model will be extended to the Freehills Law Library in 2012.

Significantly, more of the Library's collection is now available online, with a doubling of the number of ebooks to more than 180,000 in 2011.

Student equity

We have a diverse student population. The Student Equity and Disabilities Unit reports annually to the Federal Government on the University's student equity initiatives. A full report is available on the UNSW website.

Indigenous support

There were 206 Indigenous students enrolled at UNSW in 2011. Our goal is to increase enrolments to 500 by 2015. Students are currently concentrated in Medicine, Law, and Arts and Social Sciences. Highlights in 2011 included:

- A record 49 high school students completed the Nura Gili Indigenous Pre-Program. The month-long intensive residential course acts as the admissions pathway for entry into undergraduate programs in Business, Law, Medicine and Social Work.
- The Phase 2 Pilot of the Spring Forum program for TAFE and mature-age students was held in collaboration with the Australian School of Business. The program expanded in 2011 to include additional Faculties.
- The new Indigenous Studies Major and Minor, and related new courses, were approved in 2011. The Major in Indigenous Studies is a cross-curricula suite of courses designed to enhance existing degree program options at UNSW.



Law student Natalie Karam.

Future leader

Winning a coveted Prime Minister's Australia Asia Award tops off a list of stellar achievements for Jurisprudence/Law student Natalie Karam. The prize provides up to \$53,500 to study and undertake an internship in Asia. "I have had a great time at UNSW, from studying in the Faculty of Law, to being involved with UNSW's student association, Arc, and making wonderful friends." Natalie will be based at the University of Hong Kong for two semesters before undertaking several internships with a Hong Kong corporate law firm and the Department of Foreign Affairs and Trade. Natalie was one of only 20 students across Australia to receive the award, which aims to develop internationally aware, skilled future leaders. Natalie is currently the Chair of the Board of Directors of Arc, was Co-President of the UNSW Law Society, on the executive of the Australian Law Students' Association, Vice-President of the UNSW Debating Society and a tutor for disadvantaged high school students.

Transition to university

We expanded our Network Schools Program, which aims to attract the best and brightest students to the University. Students from 68 Sydney high schools took part in a wide range of specialised classes and events on campus. In 2011, UNSW offered a special Science Information Day and introduced a debating program in collaboration with the UNSW Debating Society.

ASPIRE

ASPIRE is an innovative social inclusion initiative that actively promotes university to primary and high school students from low socio-economic backgrounds. It has grown rapidly since its inception in 2007 and in 2011 received a significant funding boost of \$4.6 million from the Federal Government. More than 30 primary and secondary schools from across the state, including regional and rural areas, are currently involved in the scheme, which has so far assisted several thousand students. In 2011, 414 university offers were made by UAC to Year 12 school leavers from ASPIRE-affiliated schools, up from 253 in 2009.

U@UNSW

More than 200 year 11 and 12 students from 14 schools participated in the U@UNSW pilot project, designed to increase access to the University for disadvantaged students. Rather than relying solely on the ATAR for ranking, the program uses multiple selection criteria, such as aptitude testing through Unitest, recommendations from school principals and demonstrated ability in broad-based, tertiary level, academic skills. The program also develops participants' overall preparedness for university study and incorporates transitional support for students who secure offers at UNSW.

Learning and teaching

A major project to support and improve assessment practices developed a range of online resources for staff. The Learning and Teaching Unit hosted two university-wide seminars on best practice approaches. The UNSW Assessment Policy and UNSW Assessment Procedures were drafted, to be presented to the Academic Board in 2012.

We also conducted a range of workshops and seminars to enhance technology-enabled learning and teaching.

In collaboration with the Faculties and IT, we commenced a pilot of the alternate learning management system Moodle 1.9, in addition to piloting a range of other educational technologies including Mahara, WebEx, Wimba Classroom and Omnium.

The UNSW Teaching Gateway, launched in 2011, will be expanded to encompass the Student and Learning Gateway.

Teacher training

Enrolments continue to be strong for the Masters of Philosophy (Higher Education), offered in collaboration with the School of Education, now in its second year. This initiative is designed to develop the research capability of those who teach, work or lead in higher education. The Graduate Certificate in University Learning and Teaching program, which dovetails with the MPhil (HE) program, saw a 27 per cent increase in student enrolments in 2011.

UNSW's Foundation of Learning in Teaching program for UNSW staff had close to 100 enrolments in 2011, a 36 per cent increase.

Mastering space research

UNSW has teamed up with a major space industry partner, Thales, to establish an innovative new postgraduate program that will give students a deep understanding of satellite systems and their many applications. The two-year masters degree in satellite systems engineering at UNSW's Australian Centre for Space Engineering Research will be tailored to Australia's strategic and commercial interests. The degree is sponsored by Thales Alenia Space and Thales Australia, key players in the aerospace and defence markets.



Teaching honours

Australian Learning and Teaching Council (ALTC) citations

Dr Chinthaka Balasooriya, School of Public Health and Community Medicine
Associate Professor Elizabeth Fernandez, School of Social Sciences
Dr Mark Hill, Faculty of Medicine
Ms Kerry Humphreys, School of Accounting
Dr Sidney Newton, Faculty of Built Environment
Dr Helen Pringle, School of Social Sciences
Dr Kerry Thomas, School of Art History and Art Education

ALTC Innovation and Development Grants

Dr Catherine Suttle, School of Optometry and Vision Science
Professor Joe Wolfe, School of Physics

ALTC Special Initiatives

Professor Stephen Marshall, Learning and Teaching Unit/School of Education

Vice-Chancellor's Awards for Teaching Excellence

General Category

Dr Tania Bucic, School of Marketing
Associate Professor Wendy Green, School of Accounting
Ms Kerry Humphreys, School of Accounting
Associate Professor Nicodemus Tedla, School of Medical Sciences
Dr Ron Haines, School of Chemistry
Dr Claudia Tazreiter, School of Social Sciences

Postgraduate Research Supervision

Dr Paul Dawson, School of English, Media and Performing Arts
Professor Paul Patton, School of History and Philosophy

Sessional Teaching

Dr Lynn Gribble, Australian School of Business
Dr Dominic Fitzsimmons, School of Law



Education innovator

A substantial international audience grew even bigger in 2011 when two awards put the spotlight on the physics website *Physclips*, developed by Professor Joe Wolfe, pictured, and colleagues George Hatsidimitris and Associate Professor John Smith. The freely available multimedia resources are a hit with academics, high school teachers and students alike. The interactive platform provides a very flexible, individual learning experience, combining text, short lectures, video clips and animations to communicate physics. The team won an innovation grant from the Australian Learning and Teaching Council as well as the education award at the Innovation Challenge, sponsored by *The Australian* newspaper.

Thanks to the generous support of donors, we can invest extra funds in research, capital works, scholarships and prizes. Engineering student and para-cyclist Alexandra Green is a new world champion, putting her on track for selection to the London Paralympics team. She holds a Ben Lexcen sports scholarship.



Community Engagement

Partnerships with the community in Australia and overseas ensure the benefits of our knowledge, learning and research extend beyond the campus gates.

\$21M

CASH SECURED IN FUNDRAISING INCOME, UP BY \$3 MILLION FROM 2010

SCHOOLS

2 MILLION-PLUS STUDENTS ENTER THE INTERNATIONAL COMPETITIONS AND ASSESSMENTS FOR SCHOOLS

30%

AVERAGE ANNUAL GROWTH IN FUNDRAISING INCOME OVER PAST 5 YEARS

\$10M

PLEDGE FROM THE ATLANTIC PHILANTHROPIES TO SUPPORT THE KIRBY INSTITUTE

GIVING

NUMBER OF DONORS JUMPED FROM 2,166 IN 2010 TO 3,130 IN 2011

TOP BOOKS

SIX TITLES PUBLISHED BY UNSW PRESS WON MAJOR AWARDS

500,000

VISITS TO UNSW'S FITNESS AND AQUATIC CENTRE FROM SCHOOLS AND THE COMMUNITY IN 2011

International schools competitions

The International Competitions and Assessments for schools, run by UNSW Global, is the world's largest independent assessment program and attracts more than two million entrants from around the world. One of the highest achievers was Karthika Mohan, who made the top one per cent of Indian students in Computer Skills, English, Mathematics and Science. She received a scholarship to UNSW to study engineering, won the Warwick Slade Royal Aeronautical Society Prize for the top team performance in Aerospace Design, and is about to graduate.



High achiever Karthika Mohan.

Fundraising

In 2011 the UNSW Foundation secured \$21.02 million in fundraising income for the University, a \$3 million increase over 2010 and up from \$5.6 million in 2006. The Foundation also secured \$33.8 million in new pledges. The number of donors increased from 2,166 in 2010 to 3,130 in 2011.

Over the past five years the average annual growth rate for fundraising income received by UNSW is 30 per cent.

UNSW's total donated fund balance stood at \$123 million on 31 December 2011, of which \$78 million is held in Endowment and \$45 million is held in Beneficial funds. These funds support research, Chairs, capital works, scholarships and prizes.

In 2011, major philanthropic giving to the University included:

- A pledge of \$10 million from The Atlantic Philanthropies (Australia) over three years to support the Kirby Institute for infection and immunity in society.
- A \$2.2 million commitment from the Kids' Cancer Project to fund research in drug discovery and muscle stem cells under the leadership of Professor Peter Gunning in the Faculty of Medicine.
- A pledge of \$1.5 million from The Balnaves Foundation towards the consolidation and relocation of Nura Gili to a new facility for Indigenous education and student support.
- A \$1.25 million commitment from the Commonwealth Bank to sponsor a Chair in Finance at the Centre for International Finance and Regulation.
- A pledge of \$1.2 million from Mr Andrew Roberts for a Chair in Real Estate in the Australian School of Business.
- A gift of \$1.1 million from the estate of the late John Anthony Gilbert for three postdoctoral fellowships in

theatre and/or film studies at the Centre for Modernism Studies in the Faculty of Arts and Social Sciences.

- A pledge of \$665,000 from Sir Moses Montefiore Jewish Home towards research into healthy brain ageing in the Faculty of Medicine, to match the 2009 challenge pledge for \$1 million from the Thomas Foundation.
- An additional commitment for \$650,000 from the Cure For Life Foundation towards a Chair and a Visiting Fellow in Neuro-Oncology in the Faculty of Medicine.
- A gift of \$550,000 from Dr Michael Crouch AO towards his \$2 million pledge to support the Chair of Innovation and Entrepreneurship in the Australian School of Business.
- A pledge of \$500,000 from John and Jenny Green to provide scholarships to disadvantaged law students over a period of seven years in the Faculty of Law.
- A \$450,000 commitment from the United Nations Foundation to support the work of the Pacific Friends of the Global Fund, located in the Kirby Institute, to fight AIDS, tuberculosis and malaria.
- A gift of \$200,000 from Vittoria Coffee to support the Chair and Head of the Adult Cancer Program in the Faculty of Medicine.

The UNSW Foundation developed a plan to focus on capital fundraising campaigns in the next five years covering new capital works such as the Institute of Virology, Wallace Wurth refurbishment, the Tyree Energy Technologies Building, the Material Sciences Building, residential colleges and Gateway@COFA.

We developed UNSW-wide projects including Indigenous programs, Sport@UNSW and scholarships for excellence and disadvantaged students. We also introduced increasingly sophisticated communications with donors through electronic newsletters including video materials and social media.



Living to 150

Drugs to help people live to 150 could be available within a decade, but the social and economic consequences of prolonged life will change Australia forever, experts told a 1,000-strong capacity audience at UNSW. The 2011 Medicine Dean's Lecture on happy and healthy ageing was delivered by Harvard University's Professor David Sinclair, Oxford University's Baroness Susan Greenfield and UNSW Professor Henry Brodaty. The event was hosted by Alzheimer's Australia's Ms Ita Buttrose and the Dean of Medicine, Professor Peter Smith.

L-R: Professor David Sinclair, Baroness Susan Greenfield, Ms Ita Buttrose and Professor Henry Brodaty.

UNSW Foundation

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Qantas chief Alan Joyce spoke to a packed audience at an Australian School of Business' Meet the CEO event in December. The series brings together alumni, sponsors and donors, giving access to business leaders whose innovation, entrepreneurship and leadership are changing the business landscape.



Celebrating graduation ... Eliza Sariaatmadja BCom '11 and her father, Eddy Sariaatmadja BE '79 MEngSc '81, who is the inaugural President of the UNSW Indonesian Alumni Chapter.



Generous donor John Green. Photo: Renee Nowytarger/Newspix.

The education elevator

The most generous scholarships program in the history of the Faculty of Law was established by John and Jenny Green to support disadvantaged students. Six scholarships, each worth \$100,000, will be awarded to eligible HSC graduates to complete an undergraduate dual law degree. "Education is a great elevator," says Mr Green. "My parents escaped war-torn Europe, arriving here with little education, no money, no English and no jobs, but passionate that their kids receive the education they couldn't. UNSW and its Law School were critical in opening the paths I have since taken, and helped inspire me and many of my classmates to make a difference in our later lives well beyond making money."

Alumni engagement

Several initiatives saw our large global alumni community reconnect. Alumni receptions, hosted by the Vice-Chancellor, were held in San Francisco and New York, London, Singapore, Beijing, Delhi, and a Regional Graduation Ceremony and Gala Dinner in Hong Kong.

In August, the annual Alumni Awards Dinner honoured four people for their outstanding achievements: Mr Nicholas Moore (BCom '81 LLB '82), Judge Andrew Haesler SC (BA '78, LLB '81), Associate Professor Charles Teo AM (MBBS '81) and Professor Glenn Murcutt AO (Dip Arch '62, HonDSc '95).

In November 2011 a reunion of alumni from the Kensington Colleges saw 600-plus former residents return to campus to celebrate the history of the colleges and the launch of the \$110 million redevelopment and building program.

The annual Town and Gown Dinner, hosted by the Chancellor and Vice-Chancellor, celebrates our partnerships with academia, business, industry, government and community organisations. In 2011, the event featured three leading researchers, Professor David Cooper AO, Director of the Kirby Institute, Professor Jane McAdam, Director at the Gilbert + Tobin Centre of Public Law, and Scientia Professor David Waite, Head of the School of Civil Engineering.

An increasing number of alumni are connecting with UNSWorld Alumni Online, launched in 2010. In 2011, online communities were set up in Hong Kong, Singapore, Vietnam, China, Malaysia, Indonesia, USA and the United Kingdom.

We acknowledge the generous support of thousands of alumni for the Vice-Chancellor's Annual Alumni Telephone Appeal, which has enabled 30 students from disadvantaged backgrounds to study at UNSW. The efforts of current UNSW students who staffed the Appeal over a 10-week period contributed significantly to its success in 2011.

Community outreach

Significant University partnerships in 2011 included:

- UNSW Institute of Languages worked closely with Austrade in a new initiative in Japan to develop customised programs to meet the global workforce needs of Japanese companies.
- UNSW's sporting facilities are very popular with the community, with more than 500,000 visits to the Fitness and Aquatic Centre in 2011, or more than 32,000 hours of usage of all sports facilities. Close to 70,000 local children participated in our Learn to Swim and School Sport programs.
- Telstra Foundation and film director Phillip Noyce joined forces with Football United to train young refugee footballers in digital film making. An initiative of UNSW's School of Public Health and Community Medicine, Football United works in partnership with councils, migrant resource centres and football clubs.
- The Crown Prince and Crown Princess of Denmark, with the Lord Mayors of Sydney and Copenhagen, launched an innovative exhibition, *Curating Cities: Sydney – Copenhagen*. It was produced by UNSW's National Institute of Experimental Arts at COFA in association with the Danish Arts Agency.



Shadow Minister Malcolm Turnbull.

Mining the future

Guests at a dinner for the Universitas 21 annual conference – hosted for the first time by UNSW – heard the Shadow Minister for Communications and Broadband, Malcolm Turnbull, call for Australia to invest the proceeds of its mining boom in education. At the event, attended by vice-chancellors and presidents of universities from Asia, Europe and the US, Mr Turnbull pointed to the critical importance of knowledge and innovation and the dire consequences for societies that neglect them.

- The UNSW Centre for Refugee Research, partnering with the Refugee Council of Australia and the United Nations High Commissioner for Refugees regional office in Canberra, hosted a major conference in June to mark the 60th anniversary of the 1951 Refugee Convention. The Centre was also selected by the UN to help international female refugees present their stories of survival at a major event in Geneva.
- US Ambassador Jeffrey Bleich delivered the UNSW Australian Human Rights Centre's Annual Public Lecture, 'The United States and Australia's commitment to human rights in the Asia-Pacific'.
- The Faculty of Built Environment will help to shape the Sydney of the future under an agreement announced by the Sydney Lord Mayor Clover Moore at the third Utzon Lecture for 2011, entitled 'Sydney in 2030'. She said the MOU would help foster leadership, vision and long-term planning as Sydney develops into the future.
- UNSW was the first university to be named a partner of the Sydney Writers' Festival, which hosts 300 writers and 80,000 visitors annually. Several UNSW academics from the Faculty of Arts and Social Sciences were panellists at the SWF in 2011.

Honorary degrees

In 2011, we awarded six honorary degrees in recognition of significant achievement and service to the community across a range of fields: Jennifer Allum (Hon.DLitt), Bertil Anderson (Hon.Dsc), Michael Hintze (Hon.DBus), Penelope Seidler (Hon.DLitt), Jane Halton (Hon DLitt), and John Coates (Hon.DLitt).

Public forums

UNSW led public debate through free public talks and conferences on diverse topics from media and population to healthy ageing and aviation reform.

The influential speakers who addressed audiences on campus included:

- ABC award-winning journalist Kerry O'Brien, who delivered the Wallace Wurth Memorial Lecture on 'Politics and Journalism: the race to the bottom'.
- Professor Paul Ehrlich, who presented the Jack Beale lecture on the global environment.

- The Australian School of Business' Meet the CEO series hosted Alan Joyce, Qantas CEO, Cameron Clyne, Group CEO National Australia Bank and Catriona Noble, CEO of McDonald's Australia.
- Stanford Professor Paula England, who delivered the keynote address, 'The Uneven Gender Revolution', at the Australian Social Policy Conference.
- UCLA Professor Lynn Stout, one of the world's leading scholars of corporate governance, who delivered the Faculty of Law lecture on 'What do shareholders really value?'
- David Fitzpatrick, Professor of Modern History at Dublin's Trinity College, who delivered the inaugural Patrick O'Farrell Memorial Lecture, established by the John Hume Institute for Global Irish Studies.

In 2011, we awarded six honorary degrees in recognition of significant achievement and service to the community across a range of fields.

Winter school warms up

A record 165 Indigenous high school students graduated from the Nura Gili Winter School at UNSW. The week-long residential program gives students an experience university life in their chosen field, ranging from business, built environment, fine arts, engineering, law, medicine, Indigenous studies, social work, education, performing arts and science. University pre-programs result in 80 per cent of participants going on to enrol in higher education, 40 per cent of them at UNSW. Nura Gili Indigenous programs are supported by founding partner UBS, which has provided \$1 million over four years.



L-R: Winter School students Jess Alexander, Cassey Lynwood and Murrie Kemp. Photo: Ben Ruston/fairfaxphotos.com.

UNSWTV

UNSWTV increased its viewing statistics and subscribers, consistently ranking in the top channels worldwide on YouTube EDU and one of YouTube Australia's most popular partner channels. Our combined channel views are now more than 5.3 million, making us the only non-American university to rank alongside MIT, Stanford, Berkeley and Harvard. We have 10,000 subscribers to our e-learning channel and 8,000 to our outreach channels.

In 2011, UNSWTV built on content-sharing arrangements with the ABC, Slow TV, SMH, news.com.au, and Sky TV's APAC channel.

- *Sydney* by Delia Falconer – 'The Nib': the CAL Waverley Library Award for Literature.
- *Savage or Civilised?: Manners in Colonial Australia* by Penny Russell – NSW Premier's History Awards Prize for Australian History.
- Michael Wesley's *There Goes the Neighbourhood: Australia and the rise of Asia* – John Button Prize for writing on public policy.
- *What Were They Thinking? The politics of ideas in Australia*, by James Walter – Henry Mayer Prize for an outstanding book on Australian politics.
- *Culture Crisis: Anthropology and Politics in Aboriginal Australia*, edited by Jon Altman and Melinda Hinkson – Australian Educational Publishing Award for best scholarly reference book.

UNSW Press

The quality and reputation of books published by UNSW Press was highlighted in 2011 with six titles winning major awards and 13 books shortlisted.

- *A Three-Cornered Life*, a biography of the historian WK Hancock by Jim Davidson, won four awards: *The Age* Book of the Year for Non-Fiction; the Ernest Scott Prize; the WA Premier's Book Awards for Non-Fiction; and the Prime Minister's Prize for Australian History (co-winner).



Australian Poetry Since 1788, the first book to be underwritten by donations to the UNSW Press Literary Fund, was published in October 2011. Edited by Geoffrey Lehmann and Robert Gray, this landmark anthology features more than 1,000 poems, as well as critical biographies of 170 poets.



UNSW has established a Strategic Priorities Fund to support the recruitment of 100-plus new staff in teaching and research positions.



Capabilities & Resources

Building capacity in leadership, strengthening operations and maximising our resources to create the best possible campus environment for learning and research underpins the pursuit of our strategic priorities across the University.

\$179M

INVESTED IN CAMPUS
INFRASTRUCTURE
ACROSS 104 PROJECTS

SUCCESSION

NEW TALENT
MANAGEMENT AND
SUCCESSION PLANNING
MODEL IMPLEMENTED

2,900

STAFF ATTENDED UNSW
SKILLS DEVELOPMENT
WORKSHOPS

BUILT

6 STAR GREEN STAR
RATED TYREE ENERGY
TECHNOLOGIES
BUILDING COMPLETED

LIGHT RAIL

SUPPORTED JOINT STUDY
INTO THE EXTENSION OF
LIGHT RAIL TO MAIN CAMPUS

\$1.47B

TOTAL CONSOLIDATED
REVENUE AND INCOME

SAFETY

EXCEEDED TARGET OF
25% REDUCTION IN
LOST-TIME INJURY

Child care travel fund

A month after the birth of her daughter in August, Associate Professor Angela Moles received the Eureka Prize for Outstanding Young Researcher then flew to the UK to deliver a keynote on the ecological strategies used by plant species. Her presentation would not have been possible without the support of her mother-in-law, who flew from Canada to the UK to help care for the newborn. Associate Professor Moles was one of 19 academics to receive financial assistance from the Vice-Chancellor's Child Care Travel Fund to subsidise the extra costs incurred to attend high profile conferences. "My attendance resulted in the initiation of new collaborative projects, which should translate to publications in peer-reviewed journals," says Angela. UNSW has been named an Employer of Choice for Women for the seventh consecutive year.



Associate Professor Angela Moles with her daughter, Sophie, and fellow UNSW Eureka Prize winner Professor Andrew Dzuras. Photo: Australian Museum Eureka Prizes and 247studios.com.au.

Leadership culture

Creating a dynamic work environment attractive to high-quality staff was a key focus of the University's operations in 2011. Across all work units, the development of staff capabilities continued to focus on improving the underlying leadership culture at UNSW and equipping supervisors to resolve staff issues at the local workplace level.

High-performing staff

As part of our focus on building long-term teaching and research capacity within the University, a new strategic priorities fund was established, to commence in 2012. The Academic Career Pipeline Initiatives Fund is designed to support the recruitment of 100-plus new staff in additional teaching and research academic positions to improve staff-to-student ratios, enhance teaching and research, and to build future leadership capability.

Over the past three years, more than 1,500 managers and staff across all Faculties and Divisions have participated in Performance Development Scheme training workshops. The Scheme has strongly contributed to better quality, two-way dialogue between supervisors and staff about professional and career development. Another outcome has been an increase in the number of staff undertaking skills-based training to develop capabilities.

In 2011, 2,900 academic and professional staff across the University attended senior leadership, management, professional and researcher development workshops, delivered internally by the Organisation and Staff Development Services team.

The inaugural Level B-C Academic Women in Leadership Program was successfully delivered in 2011, with very positive feedback from the 19 academics who completed it.

The program provided an opportunity for critical thinking about long-term career goals as well as the practice of leadership in an academic context.

Academic promotions

The overall promotion success rate across all academic levels was 83 per cent. The trend of high success rates for academic women continued and in 2011 we had the highest number ever of promotion applications to Professor from female academics.

Academic promotion information sessions and support workshops were delivered ahead of each promotion round, including at UNSW Canberra, attended by approximately 250 academic staff throughout the year.

Succession planning

The UNSW Talent Management and Succession Planning model was implemented across eight Faculties and one Division, with a total of 75 senior managers assessed up to the end of 2011. The model is designed to identify and develop our top and emerging leadership talent through an integrated approach to performance management, leadership development, recruitment and selection, and reward and recognition.

Enterprise agreements

The new UNSW (Academic Staff) Enterprise Agreement commenced in 2011, after it was approved by an overwhelming majority (96 per cent) of staff who voted. This followed the commencement of the UNSW (Professional Staff) Enterprise Agreement in December 2010.



Artist's impression of the redeveloped Kensington Colleges.

Place to call home

When the new \$110 million two-year redevelopment of our residential Kensington Colleges is finished in early 2014, UNSW will have more than doubled its on-campus student accommodation in four years. The three halls of residence that make up the Kensington Colleges – Basser, Philip Baxter and Goldstein – are being rebuilt with additional capacity to house 923 students. This work follows the recent opening of the UNSW Village (1,000 beds) and the New College Village (319 beds), while another self-catered complex providing 398 beds at Gate 2, High Street, is currently under construction, due to open in early 2013. UNSW currently offers more student beds than any other university in the state.

Safety at work

UNSW's new online OHS Awareness training course won the platinum award for Best Safety Training Program at the 2011 LearnX E-learning & Training Awards. Nearly 2,500 staff and students completed the online training, taking the total staff and students attending all forms of safety training in 2011 to 4,502. UNSW management has also been leading by example, with 321 supervisors completing the OHS for Supervisors Training Program.

2011 also saw UNSW achieve a better-than-target safety result of 4.1 lost-time injuries per million employee hours worked. This positive outcome exceeded the University's 2009–2011 target of a 25 per cent reduction in lost-time injury and can be attributed to the diligent work of many staff and students and a significant 94 per cent increase in hazard reporting, assisted by the introduction of a new reporting system. All of these initiatives indicate a strengthening of UNSW's safety culture and show progression towards our health and safety aim of 'Harm to Zero'.

Workplace diversity

UNSW is an equal opportunity employer that values and supports the rich diversity of its staff. Our global focus and long history of international engagement is reflected in the cultural profile of staff and students: 27 per cent of staff and 42 per cent of students speak languages other than English. Staff from employment equity groups are supported by a number of targeted best practice programs.

For the seventh consecutive year, UNSW was recognised by the federal Equal Opportunity for Women in the Workplace Agency with an Employer of Choice for Women award

Key achievements in 2011 included:

- The Vice-Chancellor hosted a consultation with early career academic women.
- There was continued promotion success for UNSW's academic women, with a 100 per cent success rate for women applying to Level B, and 75 per cent or more for all other academic levels.
- The Career Advancement Fund for Female Academics Returning from Maternity Leave provided 24 staff with a grant of up to \$10,000 to restart their careers.
- The Vice-Chancellor's Childcare Support Fund for Women Researchers assisted 19 staff to meet their additional childcare expenses when presenting papers at prestigious international and national conferences.
- The Reasonable Adjustment Guidelines for Managers of Staff and Potential Staff with Disabilities assists managers (including supervisors) with their legal and organisational responsibilities for providing workplace equality for employees with disabilities. The University contributed nearly \$16,000 towards workplace adjustments in 2011.
- The Workplace English Program (WEP) is available free to all UNSW staff wanting to improve their English language and communication skills. Run by the UNSW Institute of Languages, WEP is the only service of its kind at an Australian university. In 2011, it attracted 120 participants from 20 different language backgrounds.



Maja Baska



Photo: Maja Baska.

Student precinct

UNSW is set to become the first university in the country to formally partner with its student organisation, Arc, to deliver more student services and an enhanced campus environment. With the introduction of the Student Services and Amenities Fee, which restores the direct funding to universities lost through Voluntary Student Unionism, the University has agreed to allocate more than half of funds it collects in fees directly to Arc. The fees will allow us to further strengthen capacity in student services, and elected student representatives will be involved in discussions about priority areas for funding.

Indigenous cadetships

Nura Gili delivers a number of best practice programs that support the participation of Indigenous students at UNSW. Indigenous Cadetships, partially funded by the Commonwealth Government, allow full-time students to combine employment and study. In 2011, three Indigenous students received cadetships and were provided with employment opportunities at Nura Gili and in the faculties of Arts and Social Sciences and Law. The Indigenous workforce participation at UNSW has remained strong, with the number of Indigenous academic staff steadily increasing over the last five years.

Multicultural and EEO policies

UNSW's Multicultural Policies and Services Program (MPSP) sets out the diverse range of activities and key strategies to support staff and students from culturally and linguistically diverse backgrounds and to foster the University's community engagement. The MPSP is guided by the *Principles of Multiculturalism Act 2000* (NSW). UNSW's statement of Strategic Intent, *Blueprint to Beyond*, outlines a number of guiding principles that integrate cultural diversity into the University's core business. The full MPSP is available at the Workplace Diversity section of the Human Resources website.

In accordance with the *NSW Anti-Discrimination Act*, UNSW lodged its Equal Employment Opportunity Management Plan 2010–2014 with the NSW Government. A full EEO report is available at the Human Resources website. A statistical summary can also be found in the Statutory Report in Volume 2.

Sustainability

UNSW has a range of sustainability goals with the aim of improving our performance across all areas of the University.

Recycling

In an effort to further reduce waste, UNSW entered into a new waste management contract with Doyle Bros, who provide a materials recovery facility.

Numerous public place recycling stations were installed around the Kensington campus, with more to be installed at COFA. As a result, we are now extracting and recycling around 70 per cent of recyclable materials that would previously have gone to landfill. An innovative trial of food waste collection and composting with participating retail outlets is also under development.

Transport

Transport is a critical issue for our 50,000 students and staff. We supported a joint study into the extension of light rail to our main campus in Randwick.

We continued to lobby the NSW Government, Randwick Council and Sydney Buses for new and upgraded services. Following the trial of a free bus for staff and students from Green Square to UNSW to determine demand, we have requested alternative options and additional services from/to Green Square. We are also exploring options for bus shelters at Central Station.



David Phillips Field, home to UNSW Rugby.

Field of dreams

David Phillips Field, home to UNSW sporting clubs since 1964, was officially reopened after a \$10 million redevelopment to create some of the finest university sporting facilities in the state. Located in Daceyville, the grounds include a new synthetic hockey pitch, a multi-use soccer pitch and four tennis courts. There are also three grass fields for rugby, football, baseball, touch football in winter and cricket in summer. The project incorporates the latest in environmentally sustainable systems, including solar hot water and storm-water harvesting. The grounds will be used by UNSW sporting clubs as well as Sport and Recreation for its comprehensive school sport programs. The facilities will also be available for hire by community and sports groups.

Security

The Security team is involved in the Crime Prevention Partnership between UNSW, the Local Area Command and Randwick City Council, designed to implement a comprehensive approach by all parties to reduce crime in the area. Strategies include reviews of lighting adequacy on and off campus, information sharing to identify offenders, security assessments to identify risks, increased CCTV in identified 'hot spots', high visibility policing, and covert police operations.

Campus development

World-class facilities

A total of \$178.7 million was invested in the University's physical infrastructure in 2011 across 104 projects.

Major new infrastructure

Tyree Energy Technologies Building (TETB): The TETB project was completed at the end of 2011, with staff and students occupying the building prior to Semester 1, 2012. The \$125 million building has been certified 6-star Green Star by the Green Building Council of Australia, which is fitting for a building designed to support teaching and research in traditional and renewable energy sources under the umbrella of the Australian Energy Research Institute.

Solar Industry Research Facility (SIRF): Completed in 2011, SIRF will allow UNSW to showcase its world-leading solar cell research capabilities to the commercial world.

David Phillips Sports Fields: The major \$10 million redevelopment, completed in October 2011, has created a high-quality home for the UNSW Rugby, Football, Hockey, Tennis, Cricket and Baseball clubs, with extensive new fields, courts and pitches.

Capital upgrade program

In 2011, \$36.6 million was spent on capital upgrades and refurbishments, including lecture theatres. This program focuses on short to medium term 'tenancy' modernisations and space utilisation improvements driven by the needs of the Faculties, as well as major upgrades to UNSW's site services infrastructure, civil works and landscaping and base building structure, services, public areas and amenities. Among the many achievements of the program was the installation of approximately 500 external seats across seven campus locations – these new outdoor study spaces are supported by wireless network access and power points to charge laptops and other portable devices.

Major developments under construction

Gateway@COFA: The \$58 million redevelopment of the COFA site is expected to be completed early in 2013. The project includes a major new art gallery on Sydney's Oxford Street.

Wallace Wurth Expansion and Redevelopment: This \$146 million project, to be completed in stages over 2013-2014, will renew and expand the Wallace Wurth Building to accommodate the Faculty of Medicine and the Kirby Institute.



From top: Artist's impression of light rail on Anzac Parade; Wallace Wurth redevelopment; and Gateway@COFA project.

Planning for the future

UNSW, Randwick City Council and the Australian Turf Club co-funded a study to examine the feasibility of the proposed extension of Sydney's light rail network to Randwick. The route, running along Anzac Parade, would link major Sydney attractions including the sporting stadiums, Entertainment Quarter, Royal Randwick Racecourse, Centennial Park and Moore Park, UNSW, four major hospitals, NIDA and Randwick TAFE. "Extending light rail to Randwick is an issue of critical importance to the University," says Vice-Chancellor Professor Fred Hilmer.

Gate 2 Student Accommodation: Construction of the \$58.9 million, 399-bed independent living style accommodation development at Gate 2 on High Street commenced construction in 2011 and is due for completion prior to Semester 1, 2013.

The Kensington Colleges Redevelopment and Expansion: The 947-bed \$110 million project commenced on site late in 2011 and is due for completion prior to Semester 1, 2014. The development will accommodate rebuilt Basser, Baxter and Goldstein Colleges as well as a new self-catering Senior's Hall and a 160-bed college designed for the specific needs of Muslim students.

Allied Health Facility. Planning will be undertaken in 2012 with construction scheduled for 2013-2014.

Retail on Campus: UNSW is working towards a new retail master plan and campus strategy. The plan was developed throughout 2011 and followed an extensive survey of staff and students. It will be launched in 2012 and will focus on the retail precincts on lower, middle and upper campus, as well as a new cafe at COFA, aiming to improve the retail experience of staff and students.

Infrastructure planning

Materials Science and Engineering Building: Extensive planning for this new state-of-the art laboratory building concluded in 2011. The \$145 million project will unlock the lower campus for redevelopment and create significant open space.

Faculty of Engineering Accommodation Renewal Program: Extensive planning for a whole-of-Faculty capital renewal program identified the buildings occupied by the School of Mechanical and Manufacturing Engineering as the highest priority. Major building expansion and upgrading works will roll out over 2012-2014.

Australian Advanced Treatment Centre: Planning continued for the AATC, an early-phase clinical trials facility, which is now likely to be developed as a combined facility at the Prince of Wales Hospital campus in conjunction with the Comprehensive Cancer Blood Disorders Centre.

Rural medical clinical schools: UNSW was successful in securing \$20 million in Commonwealth funding for a Multi-Partner (University of Newcastle and North Coast TAFE) Medical and



A new cafe and bar for staff and students was opened by Arc in the heritage 'White House' building in May 2011, part of the Figtree precinct redevelopment. The venue has proven to be a very popular addition to the campus environment.

Leadership

UNSW is governed by the *University of New South Wales Act 1989* (NSW). The Council is the University's governing body and is responsible for acting on its behalf to promote its objectives and interests.

The Council has established the Finance, Audit, Risk (previously Risk Management), Nominations and Remuneration, Honorary Degrees and Student Affairs committees.

The Council is able to draw on additional specialised expertise by appointing external members to its committees. Council and Council committee members serve the University on a voluntary basis. Further information on Council, its membership and committees is available on the UNSW website.

Executive Team

President and Vice-Chancellor

Professor Frederick G. Hilmer AO LLB Syd, LLM Pennsylvania, MBA Wharton, FCPA

Deputy Vice-Chancellor (Academic)

Professor Richard Henry AM MB BS Syd, MD DipClinEpi N'cle NSW, FRACP

Deputy Vice-Chancellor (Research)

Professor Les Field AM BSc, PhD, DSc Syd, FAA, FRACI

President, Academic Board

Professor Prem Ramburuth BA, DipEd South Africa, MEd Syd, EdD UNSW, Licentiate RAM, London, GradDipEd, TESOL South Australia, MAICD

Executive Director, Finance and Operations

Mr Jonathan Blakeman BCom, Dip (LGA) Auckland, MPP Well, CA

Executive Director, University Services

Mr Neil Morris BA N'cle NSW, TGM INSEAD

Chief Executive, UNSW Foundation

Ms Jennifer Bott BA Syd, DipEd N.E.

Dean, Faculty of Arts and Social Sciences

Professor James Donald BA Oxon, PGCE DipEd MSc London, PhD Open University

Dean, Faculty of Engineering

Professor Graham Davies BSc PhD DSc Wales, CEng, FIET, FlInstP, FIOM3, FIEAust, FEng

Senior Officers

Pro Vice-Chancellor (Research)

Professor Margaret Harding BSc (Hons) PhD DSc Syd

Pro Vice-Chancellor (International)

Ms Jennie Lang BA BEd (Dist.) MEd N'cle NSW

Pro Vice-Chancellor (Students) and Registrar

Professor Joan Cooper BMath (Hons) PhD N'cle NSW

Pro Vice-Chancellor (Enterprise Systems)

Professor Wai Fong Chua BA (Hons) PhD Sheffield, FCPA, FCA, GAICD

Senior management appointments

Professor Chua was appointed Pro Vice-Chancellor (Students) and Registrar, to commence in January 2012, following the retirement of the incumbent, Professor Joan Cooper.

Vice-Chancellor's Advisory Committee

The key advisory body for the Vice-Chancellor meets fortnightly and comprises the Executive Team, Deans and senior officers.

Deans

Dean of Graduate Research

Professor Laura Poole-Warren BSc (Hons), PhD UNSW

Faculty of Arts and Social Sciences

Professor James Donald BA Oxon, PGCE DipEd MSc London, PhD Open University

Faculty of Built Environment

Professor Alec Tzannes BSc (Arch) BArch Syd, MSc Columbia, Hon. AIA, Hon. MRAIC, Hon. FNZIA, LFRAIA

Australian School of Business

Professor Alec Cameron BSc BE Syd, DPhil Oxon, MS (MgmtTech) Polytech Univ NY, FAICD

Faculty of Engineering

Professor Graham Davies BSc PhD DSc Wales, CEng, FIET, FlInstP, FIOM3, FIEAust, FEng

College of Fine Arts

Professor Ian Howard DipArtEd AMCAE, GradDip Film/TV Middlesex, MFA C'dia

Faculty of Law

Professor David Dixon BA Camb, BPhil Hull, PhD Wales

Faculty of Medicine

Professor Peter Smith RFD MD Qld, FRACP, FRCPA, FAICD

Faculty of Science

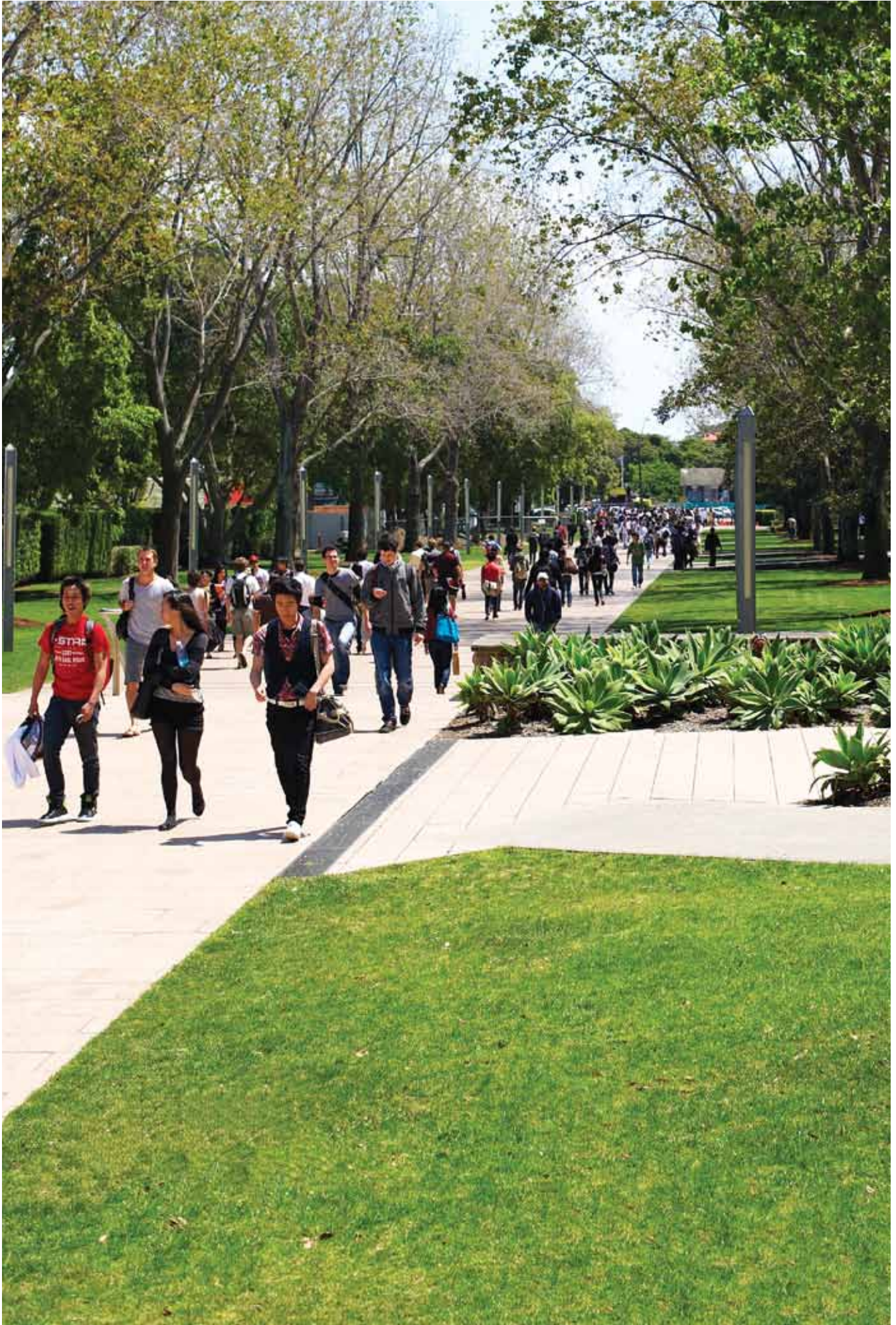
Professor Merlin Crossley BSc (Hons) Melb, DPhil Oxon

UNSW Canberra

Professor Michael Frater (Rector) BSc BE Syd, MEd UNSW, PhD ANU, MIEEE, FIEAust



**MODERN, WELL-EQUIPPED
TEACHING AND LEARNING
FACILITIES AND HIGH-QUALITY
SPORTING VENUES ARE VITAL
COMPONENTS OF A GOOD
STUDENT EXPERIENCE.**



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