UQ leads new entomology program
UQ staff and students with entrepreneurial ideas or early stage research projects are encouraged to enter UniQuest's annual Trailblazer competition, which offers $40,000 in cash prizes.

Trailblazer, now in its eighth year, aims to identify and reward original and innovative ideas that have the potential to benefit the community, industry or business as well as generate a financial return.

As well as competing for prizes in both Open and Student categories, entrants who are chosen as finalists gain the opportunity to learn how to develop their proposals into five minute presentations for pitching to a panel of commercialisation experts.

UniQuest's Managing Director, David Henderson, said entries are invited from all UQ research disciplines, whether they relate to businesses, products, services or scientific and communication technologies.

"Every year we receive more entries from a range of disciplines, which highlights the growing trend towards commercialisation across UQ's faculties and campuses, not just from the traditional science and technology centres," said Mr Henderson.

"The competition has been instrumental in helping UQ staff and students understand how commercialisation could help advance research and research careers, in addition to publishing and grants. The competition stimulates new ways of thinking about how an idea might translate into industry or community engagement," he said.

Feedback from previous Trailblazer finalists highlights the value of the competition:

"The pitch required a completely different framework than the social impact focus of my research, so UniQuest input not only helped me win the competition but also gave me valuable skills that are transferable in other aspects of my work, e.g. writing grant applications."

"The UniQuest crew are all very supportive and the feedback from the selection committee after the presentation was also very helpful."

"It is a very worthwhile event, and it is held with high regard ... Good for the CV!"

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2009 TRAILBLAZER WINNERS

Mr David Thomson
Concept technology for protein interaction analysis

Mr Simon Tennock
Gyrosopic Energy Generator

Mr Gregory Evans
with Associate Professor Shane Harris and Dr Judith Murray
The Applied Positive Psychology Program

Ms Amanda Rasmussen
with Dr Christine Beveridge
Plant-derived Propagation Innovation

Dr Gethin Thomas
Ms Ran Duan
Prof Matthew Brown
Ankylosing Spondylitis Diagnostic

Dr Muhsen Alidad
Novel Flat Screen TV and Display Panels

Prof Paul Burn
Mr Andrew Clulow
Prof Justin Cooper-White
SHIELD rapid explosives detection
MESSAGE FROM THE VICE-CHANCELLOR

Here are a couple of home truths about the future of UQ: our reputation will stand or fall on our performances in research and teaching, and our reputation will feed into funding for these pursuits.

The reasons are national and global, social and structural. Nationally, we have the government’s Excellence in Research for Australia (ERA) and plans for a My University website. Globally we have a mushrooming of university “rankings” systems, and everywhere we have people with access to a growing body of information by which they might judge universities.

In recent years several international ranking systems have emerged. UQ fares well, especially given that the United Nations Educational, Scientific and Cultural Organisation (UNESCO) recognises more than 9000 universities.

We have been in the coveted top 50 for each of the six years since the birth of the annual Times Higher Education Supplement worldwide rankings, and the research-focused Shanghai Jiao Tong University index places us in the top 100–120 globally and the top 19 of Asia Pacific universities.

Despite doubts about methodologies, it is beyond doubt that such systems have influence. A high rating can help attract strong international students, who – while making invaluable contributions to campus life and academic quality – help resource research.

ERA begins in earnest this year, and is primarily the government’s research quality assessment scheme. This month the government proposed to implement the My University website in 2012, “to help inform students about institutions, courses and pathways”. Details will be thrashed out in consultation with the sector, but the projected thrust is learning outcomes and teaching quality.

In terms of discovery, ERA might as well be called “Excellence in Reputation for Australia”. As a detailed comparison of university performance, it will influence prospective staff and students, philanthropists, collaborators, corporations and commenters. In other words, the role of reputation in Australian higher education is about to increase. This is not a complaint. Publicly funded bodies have a duty to deliver results for public benefit, and the additional accountability and transparency inherent in ERA and My University is welcome.

However, I understand why arguments that community and industry perceptions will feature in university funding will rankle with some people. Part of the answer is that we all have some say in the outcome. The deeds of individual staff, their teams, schools, faculties, institutes and the university as a whole will have an effect.

We must not lose sight of the fact that the immediate priority for most UQ students and their families is teaching, rather than research. One of the ongoing challenges for Australian universities is to limit classes to a scale that is conducive to learning.

Doctoral and Master of Philosophy candidates also expect and deserve excellent supervision.

It is a matter of deepening the integration between exemplary teaching and outstanding research. Our people already have a strong reputation in this regard, and we must continue to both earn and enhance that image. Reform can be difficult, but UQ will continue to seek and find better ways to support staff who rise to the challenges of national and international change.

Professor Paul Greenfield AO
University of Queensland researchers are calling on Ipswich locals to share their life stories.

Coordinated through the Healthy Communities Research Centre, The Ipswich Study is a long-term health research program that will unravel the health histories of volunteer families at regular intervals over 10 years and potentially beyond.

The research team needs 10,000 households to volunteer information about how they live, work and study.

“There are just a few cities in the world where people volunteer like this but the benefits are enormous and being part of a long-term research study can be surprisingly good fun,” Centre Director Professor Robert Bush said.

BUDDING BOTANISTS

UQ’s annual Sunflower Competition hosted by the School of Land, Crop and Food Sciences (LCAFS) is once again looking to be a success with more than 45 high schools registered from as far north as Cooktown to Griffith in New South Wales.

With more than 1000 students involved, the competition is designed to encourage budding agriculturalists and is a great way for students to learn about plant science in a fun and interactive way.

Schools participating in the competition will grow their sunflowers over an 11-week period, with the goal of producing the largest sunflower by May 25.

Agricultural teacher from Yeronga State High School, Mr Brad Barrett, has entered a team for the first time this year.

“At the recent Ag Teachers Conference held at UQ Gatton, I found out about the competition and was very interested in entering a team as we have a diverse range of students at the school including 64 different nationalities who may never have experienced experiments like this,” he said.

Provided with information from Dr Doug George from LCAFS, the students are encouraged to experiment with various ideas and conditions including different potting mixes, soils, fertilisers and light levels.

BLOGGING AROUND NZ

It may seem like a really long holiday, but Nicquel Rhoden is taking her role as the New Zealand “dream job” winner very seriously.

The recent graduate from UQ’s School of Tourism flew to Christchurch in February for three months of touring, attending functions and flying the flag for New Zealand on her blog.

But the 20-year-old is not only thinking of her chance to go scuba diving, visit the remnants of The Lord of the Rings movie set and try skydiving.

Miss Rhoden said she was aware the trip was also a golden opportunity to set up the building blocks for a successful career in tourism.

“Few people ever get the chance to shape their city’s story, but the residents of Ipswich will have this chance."

The Ipswich Study will officially launch its fundraising campaign on April 22 at the Ipswich Art Gallery.

Professor Bush said Ipswich’s strong community spirit made it the perfect location to conduct this type of research.

“It’s been two years in the making but in 2010, The Ipswich Study will commence and we need vital support and funding to make this happen,” he said.

“The Ipswich Study will look at a city that is undergoing rapid change and enormous growth, with the population expected to double over the next 20 years.

“It provides us with a unique place at a unique time to see how old and new parts of the city change and develop to support our health needs.”

Former UQ Chancellor Sir Llew Edwards, born and educated in Ipswich, has been appointed the first “Friend of The Ipswich Study” and knows only too well how research can play an integral part in providing evidence and solutions that benefit communities.

Sir Llew and Professor Bush will speak at a dinner hosted by the Ipswich Chamber of Commerce on April 13 as a preview to the study.

INFO → www.uq.edu.au/ipswich

CONSERVING KOALAS

UQ researchers have joined university colleagues and those from government, industry and interest groups to stop the imminent extinction of koalas in South-east Queensland.

At an inaugural meeting in January at UQ, the group, calling itself the Koala Research Network (KRN), agreed drastic action was urgently needed to preserve the species.

“We are so concerned about the plight of koalas that we are banding together to share our research findings and collaborate to save this iconic species,” UQ School of Geography Planning and Environmental Management Associate Professor Clive McAlpine said.

“The 36 researchers from across the state agreed unanimously that koala populations faced imminent local extinction, especially in coastal South-east Queensland, unless drastic actions were taken.”

He said the recent senseless shooting and subsequent death of “Doug” the baby Koala at Morayfield had generated widespread media attention both within Australia and overseas.

“While the public outrage at the shooting of koalas is understandable, habitat-clearing, disease, dog attacks and vehicle collisions kill more than 1000 koalas in South-east Queensland each year,” Dr McAlpine said.

“Around 2000 hectares of koala habitat is cleared in the region annually for urban development, forcing animals to move into developed areas where they are killed by cars and dogs.”

The Commonwealth Government is currently assessing whether the koala should be listed as threatened nationally. The plight of Queensland’s koalas will have an important bearing on this decision.

“Helping bring about this possibility is a custom-painted van, which she is currently driving around New Zealand.

INFO → entirelyworldfamousniquel.blogspot.com
**DIVERSITY ON SHOW**

UQ staff and students could win $1000 by expressing their creativity in the name of diversity.

The University’s annual Diversity Week (May 24–28) poster design competition closes on May 3 and all staff and students (except staff of the Office of Marketing and Communications and the Equity Office) are encouraged to enter.

Designs should link to the 2010 UQ Diversity Week theme, “Our Global Community”.

To celebrate the event, the University is challenging its staff, students and the wider community to reflect on UQ’s development in an increasingly globalised world, what directions this might take in the future, and the impact of globalisation on our university community and society.

Entries may include typographic, illustrative, graphic, sculptural and photographic elements. A written rationale explaining the concept behind each design is recommended.

The poster competition is just one part of what promises to be an informative and diverse program.

On May 27, renowned broadcaster and columnist Phillip Adams will once again chair the featured panel discussion with guest speakers Professor Mary Kalantzis and Dr Anna Giccarelli. All are welcome at this free event, which doubles as the ceremony for the Vice-Chancellor’s Equity and Diversity Awards.

**INFO** → To attend the panel discussion or enter the design competition visit [www.uq.edu.au/diversity-week](http://www.uq.edu.au/diversity-week)

**A WATERY EDUCATION**

UQ researchers and UniQuest have developed Australia’s first water-education resource website to increase sustainability awareness.

A wide range of materials, including more than 700 online resources were provided by private and public Australian organisations, as well as government departments. This collection now offers a single point of access for teachers and students from pre-school through to secondary school.

Funded through the Australian Government’s $12.9 billion water reform initiative Water for the Future, and hosted by the Department of the Environment, Water, Heritage and the Arts, the website is designed to support the curriculum of each state and territory.

With water not generally specified in school curricula, key concepts and themes were used to connect the online water resources to required learning objectives, according to project leader Will Kershaw from UQ’s Faculty of Science.

**FACTS + FIGURES**

80,000
– number of Australians affected by aphasia, a language disorder. UQ has developed a phone app to improve the communication skills of those affected

$7.57M
– amount of Federal Government funding awarded to UQ to develop treatments for painful bone conditions

91%
– percentage of women that want children, according to a new report co-authored by a UQ researcher

$14M
– value of a UQ-led international consortium to further scramjet research

8.15m
– the length of commerce/law student Mitchell Watt’s record jump at the recent Brisbane Athletics Classic

26
– the number of iconic Australian symbols, including the great white shark, explored in a new book co-edited by UQ lecturer Dr Melissa Harper

*“Our brief was to make it easy for all Australian pre-school, primary and secondary teachers to access online water education resources from across Australia and incorporate these into their lesson plans,” Mr Kershaw said.*

The website was launched last month.

Funding to ease the pain

Recently announced national funding will go towards developing new treatments for painful bone conditions.

Back and neck pain, knee osteoarthritis, and sports and occupational injuries such as tennis elbow will be targeted under a new National Health and Medical Research Council Program Grant awarded to a University of Queensland research team.

Professor Paul Hodges (pictured) of UQ’s School of Health and Rehabilitation Sciences and Centre for Clinical Research Excellence in Spinal Pain, Injury and Health (CCRE SPINE) leads the team which has been awarded $7.57 million in funding to improve health outcomes through treatment management.

“Musculoskeletal pain and injury is a major health issue facing our ageing society,” Professor Hodges said.

“The cost in terms of health care and lost productivity is second only to cardiovascular disease.”

“Neck pain affects 10 to 20 percent of people at any one time. Shoulder pain affects 15–30 percent of adults, while tennis elbow can impact on 20 percent of people in specific workplaces.

“In 2007, 7.8 percent of people suffered knee osteoarthritis, with a health expenditure of $2.03 billion.”

Professor Hodges said these conditions were major contributors to the burden of musculoskeletal disorders.

“Alone, each of these conditions is a major public health problem: they are associated with significant pain and disability, contribute to workplace absenteeism, reduced productivity, and have a propensity to become chronic,” he said.

“There is considerable work to be done to identify the most appropriate and cost-effective conservative treatments within a multidisciplinary framework.”

UQ Deputy Vice-Chancellor (Research) Professor Max Lu congratulated Professor Hodges and his team on their success.

“This program grant will add to the already strong research effort in this area under the leadership of Professor Hodges to enable his team and collaborators to make breakthrough discoveries and innovative treatments,” Professor Lu said.

The project brings together Professor Hodges, Professor Kim Bennell, Professor Gwendolen Juli and Professor Bill Vicenzino, their large multidisciplinary research teams, and their national and international collaborators.

INFO → www.uq.edu.au/ccre-spine

SQUASHING A SUPER BUG

A new fellowship presented by the Governor of Queensland will be used by a UQ researcher to try to combat an extreme super bug even more aggressive than resistant Staphylococcus strains.

Queensland Health and University of Queensland researcher Professor David Paterson received a Senior Clinical Research Fellowship to stem the invasion of mega super bugs, which are resistant to all antibiotics and current treatments.

Professor Paterson – an infectious diseases researcher at UQ’s Centre for Clinical Research (UQCCR) and the Royal Brisbane and Women’s Hospital – received the fellowship from the Office of Health and Medical Research.

Professor Paterson said the new strain of bacteria had “extreme drug resistance” or XDR.

“These are real super bugs, far worse than MRSA (the Methicillin Resistant Staphylococcus aureus) and even the more aggressive community-acquired MRSA strain,” he said.

“There are currently no treatment options at all.”

Professor Paterson is one of three researchers to receive a total of $8.5 million in the inaugural fellowships scheme.

The recipients were chosen from a pool of national and international applicants, with their awards presented at the UQCCR by Her Excellency Dr Penelope Wensley AO in February.

Fellow UQ and Queensland Health researchers Professor Peter Sly and Professor Thomas Marwick will research respiratory diseases in children and diagnostic testing in rural areas respectively.

Professor Sly will relocate from Western Australia to conduct his research at the Royal Children’s Hospital and Professor Marwick will continue his work at the Princess Alexandra Hospital.

The awards represent a significant funding boost for Queensland’s health research sector.

Deputy Premier and Health Minister Paul Lucas said the research would help provide more dependable and better health care for Queenslanders.

“These fellowships will increase collaboration between our health facilities and universities, help translate research into practice and support junior researchers,” Mr Lucas said.

Professor Paterson said the mega super bug was already a health issue in parts of Asia, with outbreaks in some major hospitals in the region.

“There’s the potential to see these strains in Australian travellers returning home after hospitalisation in these areas,” he said.

Professor Paterson will work to find a chink in the super bug’s armour to determine why it is so resistant and how it is being spread, and develop a new antibiotic to combat it with colleagues from UQ’s Institute for Molecular Bioscience.

Her Excellency Dr Penelope Wensley AO with Professor Paterson during a recent tour of the UQCCR
The University of Queensland has a new Senate for its new century, with a team that includes a global resources CEO, a former Queensland Treasurer and a senior judge.

Chancellor John Story said the 22-member governing council was finalised late February.

“I thank the new and continuing members for volunteering to serve an institution that has responsibilities to a community including 40,000 students from more than 120 countries,” Mr Story said.

“Dr Mary Mahoney AO, is congratulated for being elected Deputy Chancellor. Mary brings the wisdom of a Senator of 20 years standing, including a term as Deputy Chancellor (1996-98).

“Among other things she is a medical doctor, a contributor to community and professional organisations, an adjunct professor and a highly respected member of UQ’s network of alumni. She continues her family’s distinguished association with UQ, which began formally when her grandfather became a member of the first Senate 100 years ago.”

Mr Story said the Senate included a balanced representation of expertise and interests, and was “well placed to make decisions about the business of a modern globally ranked university”.

“Many members are alumni who want to give back to their alma mater and their community,” he said.

One member of the new look Senate is the Hon Dr David Hamill, who also previously served in 1989–1990. Dr Hamill, now a company director, held the ministerial portfolios of Treasurer, Education, Transport, and Minister Assisting the Premier on Economic and Trade Development.

Members of the 32nd Senate who have not previously been Senators are:

– Professor Fred D’Agostino, Associate Dean (Academic) Faculty of Arts;
– Mrs Margaret Brown, Consultant, Minter Ellison;
– Mr Brandon Carter, undergraduate student;
– Justice Martin Daubney, Judge of the Supreme Court of Queensland;
– Mr Phil Hennessy, Queensland Chairman, KPMG;
– Ms Katherine Hirschfeld, a company director who until recently was Managing Director, BP Refinery (Bulwer Island);
– Ms Catherine Lawrence, postgraduate student;
– Mr Grant Murdoch, Partner, Ernst & Young;
– Mr Charlie Sartain, CEO, Xstrata Copper.

Mr Story also recognised members of the 31st Senate who finished at the end of 2009:

– Professor Paul Bailes, Ms Sarah Collins, Mr Ben Riley, Dr Norbury Rogers, Mr Nick Stump, Dr Robert Wensley, Justice Dr Margaret White (Deputy Chancellor 2006-2009) and Ms Nerolie Withnall.

The 32nd Senate will run until December 2013.

Leading the way

The University of Queensland recognised two of its most outstanding leaders at an inaugural awards ceremony held last month.

UQ Chancellor Mr John Story and Vice-Chancellor Professor Paul Greenfield presented the winners of two new awards, the Chancellor’s Award for Individual Excellence and the UQ Leadership Award.

Anne Louise Bulloch (pictured left) of the School of Medicine received the Chancellor’s Award at a special ceremony at the Queensland Brain Institute. The honour recognises a professional staff member’s outstanding achievement.

Nicole Thompson (pictured right), Deputy Director of the Research and Innovation Division, was recognised as the winner of the UQ Leadership Award.

Both awards are part of the University’s response to feedback from the Staff Engagement Survey held in 2008.

Heather Kingston, Deputy Chief Financial Officer, received a special commendation at the ceremony.

Mr Story and Professor Greenfield congratulated all the nominees, and thanked staff across the University who took time to nominate their colleagues.

The University will invite nominations for the next round during the second half of 2010. Staff are encouraged to nominate a colleague, in order to help the University recognise the outstanding work of deserving staff.
New students on the quest to make friends need look no further than The Queensland University Exchange Students Society.

As the 2010 academic year gets into full swing, QUEST is welcoming new exchange and international students to take part in its events. President Dana Nipperess said the society was also open to locals interested in meeting students from overseas.

“Anyone who is interested in meeting new people, making life long friends from around the world and having some fun should join,” Ms Nipperess said.

“We have a huge amount of Australian students who are as excited about meeting UQ’s international students as the internationals are about meeting us,” QUEST has organised a range of social events, allowing its members to get to know their adopted city while making new friends...

Parties, day trips, Indigenous cultural demonstrations and movie nights all feature on the 2010 calendar.

QUEST was inspired by Ms Nipperess’s own exchange experience – she spent a year at Glasgow University and was impressed with the support offered to students from overseas.

“When you’re on exchange you have to make friends quite quickly and the Glasgow University International Society was the way we all did that and survived what would be a pretty tough time otherwise,” she said.

“When I found out there wasn’t an equivalent group at UQ I figured that there had to be other returned Aussie exchange students who felt the same way as me so I started QUEST.”

INFO ➔ www.questsociety.net

What would you like to change?

I would like to see a shift in social perception from the view that others in far away countries are strangers who we cannot significantly help... to seeing them as human beings, as part of our one common humanity, for whom we must do something.

Catherine Drummond
University of Queensland 2009 winner

PricewaterhouseCoopers Excellence Award 2010

At PricewaterhouseCoopers (PwC) we encourage our people to achieve excellence in their work whilst maintaining a balanced life. PwC are looking to identify high calibre students who do the same, regardless of what career you would like to pursue. For example, if you are combining full time university with a passion for the environment, achieving success in your course of study and on the sporting field, or spending your time juggling studies with a commitment to a charitable organisation then the PwC Excellence Award is your chance to be recognised.

Development package

The professional development package is designed to assist you in bridging the gap between university and the workforce, whatever profession you decide to take. This includes: financial assistance towards the course or cause of your choice, membership to the Australian Student Leadership Association, a personal development session, a bookshop voucher and lots more! Also, the winner from each university will be invited to our Sydney Office to attend the award ceremony hosted by Mark Johnson (our CEO) and guest representatives from organisations and senior university staff. Please see our website for more details.

How to apply...

simply log on to the website, enter your details and tell us in 200 words why you think you should win this Award.* The 2010 PwC Excellence Award is open to all students from all degree disciplines who have at least one year of study remaining. Applications open 22nd February and close 3rd May. So if you have demonstrated achievement in your studies and beyond... enter now!

* Further information will be required if you progress to Stage 2.
Bumper crowds made the most of this year’s O-Week activities to begin the academic year with a bang.

Market Days were held at UQ’s campuses at St Lucia, Gatton and Ipswich, allowing thousands of students to familiarise themselves with the University and the support services on offer.

UQ Student Centre Manager Ken Aberdeen said the St Lucia event benefitted from a new layout, with stalls snaking down Campbell Place to create a carnival atmosphere.

“On display were more than 100 UQ Union Clubs and Societies, various adventure, sports and recreational clubs and activities, and lots of services within the University and the wider community,” Mr Aberdeen said.

“Faculty welcomes, academic advising sessions, workshops on study skills, UQ Library workshops, and computer training sessions assist students to connect with their faculty and familiarise themselves with the University’s facilities and support networks.”

Roving performers roamed the Great Court, with students making the most of giveaways from the UQ Union and local businesses.

Mr Aberdeen said UQ staff were ready to assist students with any further enquiries they may have throughout the semester.

“Students can visit their campus Student Centre or faculty office for further assistance and advice about the University. The friendly staff will be more than happy to help,” he said.

Thousands of UQ students made the most of 2010 Market Days at St Lucia, Ipswich and Gatton.
BRIGHT FUTURE FOR NEW SCHOLARS

The University of Queensland welcomed its first Wotif Scholarship recipients at a special ceremony at the St Lucia campus earlier this month.

Made possible through a generous donation by UQ graduate and co-founder of the online accommodation website Wotif.com, Andrew Brice, the scholarship program provides support to deserving students who might not otherwise have been able to take up their place at UQ.

Late last year, the Brice family committed three million Wotif.com shares for the scholarship program, which is open to students in all disciplines.

The Wotif Scholarships aim to provide financial support to students who demonstrate that their studies will have benefits for them professionally and also for the Australian community.

The Wotif scholarships are valued at $6000 per year for up to four years.

For Indigenous student Catherine Roth (pictured), the scholarship has not only made her move from Gympie to Brisbane feasible, but has also helped her make her dream of becoming a foreign aid doctor more achievable.

Graduating from Victory College last year, Miss Roth said she would be the first in her family to study a Bachelor of Medicine/Bachelor of Surgery at the University.

“Ultimately I want to become a doctor, as I want to go overseas and help people affected by disaster, abandonment, war or other political conflicts causing poverty and poor living conditions,” she said.

“I heard that UQ’s medicine program is recognised at other universities and institutes around the world so it makes it easier for me to realise this dream.”

Having been brought up by her grandmother for most of her life, Miss Roth said the scholarship would help ease the financial burden of starting university and give peace of mind to her grandmother.

“It just makes life easier being that little bit more independent of my ABSTUDY and my grandmother’s income," she said.

“I’ll still have to learn how to manage my money but I won’t have to worry as much about finding a part-time job during first semester.

“Just trying to get to my lectures on time and learn where everything is will keep me busy enough.”

INFO ➔ www.uq.edu.au/scholarships

A FREE FOURTH ESTATE

Associate Professor Martin Hadlow
Convenor – World Press Freedom Day Conference 2010

Sometimes, to quench a thirst demands more than a glass of water. In post-Taliban Kabul, the thirst amongst ordinary Afghans, traumatised after years of oppressive rule, was for personal freedom, for access to impartial news and information without fear of retribution. For youngsters, it was a privilege as simple as the right to take up the traditional pastime of kite flying.

The desire for individual freedom, personal dignity and a functioning, independent media is common among citizens in societies where turbulence and uncertainty has caused civil insurrection, ethnic divisions, political chaos and the collapse of institutions of government. Where life-saving information can be vital to personal safety and security, a free press is a critical adjunct to daily life. Newspapers hit the streets, community radios go on-air, television stations are established.

As part of my role heading UNESCO’s activities and operations in Afghanistan, it was of critical importance to encourage journalism training and free press development opportunities. Supporting the editorial staff of the Kabul Weekly newspaper to start publishing again was a priority and their first edition was distributed just a few months after the departure of the Taliban. Across the Middle East, there is currently little optimism for the development of a free press, despite the influence of such respected institutions as the satellite TV Network Al-Jazeera.

Without access to a diversity of news and information sources, it is difficult for citizens to adequately participate in the democratic process, while the whole notion of nation-building can become a manipulated and cynical diversion. And yet, the international donor community is often reluctant to fund the equipment and training needed, during emergency or political transition, to support the development of an independent, local media. Without that input, an information vacuum can exist and entrenched voices are able to return to dominate the news agenda.

Often, the fledgling media in a country which has just undergone upheaval presents a raw, naive and even unprofessional face to the public. But that it exists at all is, in itself, evidence that healing may have begun and that democracy could yet flourish. At the cornerstone of any democracy is freedom of expression and the right of an independent media to report without fear or favour. These basic rights are enshrined in Article 19 of the UN’s Universal Declaration of Human Rights and will be discussed at the forthcoming UNESCO World Press Freedom Day conference to be held at UQ in May.

All too often, these rights are disregarded. Quenching the thirst for information comes at a price and often that price is a life. The protection of media professionals as they seek to gather news and support the public’s “right to know” is a paramount responsibility of all who value democracy.

INFO ➔ World Press Freedom Day will be held at UQ from May 1–3. Details at www.wpfd2010.org
A group of UQ nursing and midwifery students have realised a unique New Year’s resolution – using their studies to assist those in need in Cambodia.

The 13 final-year students and two staff members left Brisbane on January 2 with donated medical supplies, clothing and toys for a four-week placement in Siem Reap in a village known as Mondul 3.

“The Cambodian placement was hands down the best experience of my life. I not only learnt a lot personally, but professionally as well,” nursing student Emma Cervetto said.

“I learnt a lot about children, culture and communication. I will definitely take these skills with me everywhere, and believe they will assist me in becoming a better nurse.”

The experience counts towards the students’ clinical coursework and was organised as part of the school’s International Community Health Placement program.

The students worked as interns for New Hope, a group which provides free medical assistance to the local population.

Students assisted in referring and transferring patients to a number of hospitals in Siem Reap, assisting local medical staff in a number of environments including the New Hope Community Clinic and Orphanage.

Mondul 3 was originally the home of the Cambodian army, and illnesses including HIV/AIDS, hepatitis, typhoid, tuberculosis and dengue fever are prevalent.

Clinical lecturer Peta Crompton said the team had completed approximately 1500 health checks while overseas, and had assisted New Hope in detailing the local community’s medical and housing needs to improve their quality of life.

“The students were divided into groups which enabled them to participate in many facets during the placement, including assisting the doctor in the clinic, assessing the health and wellbeing of members in the community of Mondul 3 and also demonstrating basic health promotion activities,” she said.

“The clinical placement was an extremely beneficial experience professionally and personally for all concerned.”

As part of the trip, students learnt about Cambodian culture and history, visiting sites including the Angkor Wat Temple complex and the S-21 Tuol Slang Museum – a former prison under the Khmer Rouge regime.

An unexpected highlight came when the group were invited to take part in a Khmer wedding, complete with traditional costumes.

Before leaving Brisbane, University staff and students collected gifts of soft toys, surgical supplies, stationery and children’s clothing to donate to the local communities and orphanages in Siem Reap. The nursing students and UQ Ipswich staff further fundraised more than $US4000 to donate to New Hope.

INFO ➔ www.newhopecambodia.com
GEOTHERMAL POWER not just hot air

In the wake of mining billionaire Clive Palmer’s announcement to build six mines in the Galilee Basin, UQ research is investigating the possibility of emission-free electricity from a plentiful underground energy source to power the development.

Research at UQ’s Queensland Geothermal Energy Centre of Excellence (QGECE) is directed towards a combination of clean coal and geothermal technologies which could produce zero-emission electricity for the future development of the Galilee Basin using coal-fired and geothermal power plants.

Centre Director Professor Hal Gurgenci said to fuel future growth in Galilee Basin, a new 1000-MW power station may be needed.

“Is it possible to power the development of the present and future mining prospects in the Galilee basin by zero-emission electricity? The research by The University of Queensland says yes,” Professor Gurgenci said.

“There are indications, which still need to be confirmed, that a significant geothermal heat source may exist in the Drummond Basin – the late Carboniferous granite structure underneath the Galilee Basin.”

The centre is working with American and Japanese colleagues towards a new geothermal technology which harnesses and stores carbon dioxide.

Professor Gurgenci said he believed the technology could provide an environmentally friendly energy source for the Galilee Basin development.

“This is a new geothermal concept where, instead of water (which is traditionally used in conventional geothermal power plants), supercritical CO2 is sent down to extract the reservoir heat,” Professor Gurgenci said.

“The hot CO2 rises to the surface and drives a turbo-generator to produce electricity, and then is cooled and sent back underground to repeat the cycle.

“The favourable thermodynamic properties of CO2 make it possible for the two wells to operate as a self-sustaining heat pump that brings the subterranean heat to the surface and transforms it to electricity.”

During the last round of geothermal stimulus funding in the United States, four projects received funding to pursue different aspects of supercritical CO2 thermosiphon with a total project funding of $15 million.

Professor Gurgenci said the QGECE was working to develop turbines, heat exchangers and other plant equipment for supercritical CO2 cycles at the power conversion laboratory at UQ’s School of Mechanical and Mining Engineering.

“The concept has the potential to increase the geothermal power conversion efficiencies by up to 50 percent,” Professor Gurgenci said.

“Sequestration of CO2 captured from coal-fired power plants is an auxiliary benefit since access to large quantities of CO2 is essential; first to start the reservoir and, then possibly, to make up for the fraction of CO2 trapped underground.”

“All of our research is showing that the expected development in the Galilee Basin could be powered by a zero-emission CO2 geothermal siphon plant exploiting the heat of the Drummond geothermal resource by using the CO2 emissions captured from coal-fired power generation.”

The QGECE is funded by the Renewable Energy Fund and the Climate Change Fund established as part of Queensland’s ClimateSmart 2050 climate change strategy.

INFO ➔ www.uq.edu.au/geothermal

New phone app for aphasia

A UQ study will employ a unique mobile phone application to improve the “communicative fitness” of brain-injured patients.

Led by Professor Linda Worrall from UQ’s Clinical Centre for Research Excellence (CCRE) in Aphasia Rehabilitation, the study will be the first of its kind to use the technology in combining two complementary approaches to rehabilitation into one optimal treatment outcome.

Aphasia, a language difficulty attributed to injury of the brain, usually from stroke, is estimated to affect 80,000 Australians. It can vary from mild difficulties with finding words, or reading text, to not being able to understand what people are saying and being unable to speak.

As part of the study, 50 participants with aphasia will wear voice-activated recorders for four weeks to record the amount of time they talk each day.

The small device, to be incorporated into their mobile phone, will function in a similar way as a pedometer is used in the 10,000 steps program, by keeping track of the users “communicative fitness”.

Professor Worrall said participants would then be allocated to appropriate speech pathology programs based on their communicative fitness, which would help them gradually communicate more often.

“Our study aims to examine whether people with aphasia can improve their language and life participation by increasing the amount of time they talk during their everyday lives,” she said.

“The benefits of this program for people with aphasia and their families is that it not only aims to improve language function but also to prevent or overcome the effects of social isolation that come from not being able to understand or communicate clearly with others.

“We envisage that this study will lead to better communication outcomes, less social isolation, and better quality of life for people with aphasia and their families.”

Professor Worrall said that the CCRE had recruited all known available researchers associated with aphasia in Australia and relevant international experts to achieve this goal, and anticipated that the size of the team would double during the program.

The major outcome from research within the CCRE would be the development of the Australian Aphasia Clinical Pathway in close collaboration with speech pathologists and consumers, she said.
UQ CENTENARY CELEBRATION DAY PROGRAM

SUNDAY 18 APRIL, 9.00AM – 6.30PM
ST LUCIA CAMPUS
I invite you, your friends and relatives to join us at the St Lucia campus on Sunday, April 18. The day will be a touchstone of the Centenary, when we celebrate 100 years of achievements by students, graduates and staff.

Geared to entertain and inform, the program is anchored to UQ’s past, present and prospective contributions to scholarship, innovation, sport, culture and all aspects of society.

Everybody will be welcomed at the many free events available on the day – including visitors who have never been to a UQ campus. The program is designed for new-comers as well as the many thousands of people who are part of the University’s lifeblood. UQ was established in 1909 as the “People’s University” and remains so today.

Professor Paul Greenfield AO

THANK YOU

UQ would like to thank all volunteers, supporters, and the team behind UQ’s Centenary Celebration Day.

In the 100 years since The University of Queensland was established, we are proud to have delivered teaching and research to not only the people of our state, but also to Australia and the world.

From developing a cancer vaccine and scramjet technology, to winning an Academy Award and penning several best-selling works of literature – this is just a tiny fraction of the success achieved by the many wonderful people who have worked and studied at UQ.

Join in the celebrations, and be part of our second century, as we continue to deliver learning and discovery that has the capacity to make a difference globally.
Main picture: The Forgan Smith Building, which was completed in 1939 and remains one of the University’s landmarks.

1. Aerial view of the St Lucia campus, 1959, with the Goddard Building under construction.
2. UQ’s Gatton campus, which started life as Queensland Agricultural College in 1897.
3. Building 12 at UQ’s Ipswich campus. UQ Ipswich began operation in February 1999, and boasts state-of-the-art facilities.
4. UQ Customs House, Queen Street, downtown Brisbane, circa 1898.
5. Aerial view of Mayne Medical School, formerly known as the UQ Medical School, at UQ’s Herston campus.
6. The new Advanced Concept Teaching Space within the Sir Llew Edwards Building, St Lucia campus. The space combines research, interactive technology and innovative teaching.
7. The Great Court Cloister, 1964, St Lucia campus.
8. Exterior of the UQ Art Museum, open to the public at the St Lucia campus.
10. The Biological Sciences Library and Darwin’s Cafe, UQ St Lucia campus. The building was designed in the mid-1970s and has been refurbished in several stages since that time. The recent refurbishment was completed at the end of 2006.

Photos 1, 4, 7 and 9: UQ Archives. Photos 2, 3, 5, 6, 8 and 10: OMC

1926
Dr James O'Neil Mayne and his sister, Miss Mary Emelia Mayne, provide £55,000 to the Brisbane City Council to resume 210 acres of riverside land at St Lucia to provide a new site for the University.

1948
The move from George Street to St Lucia begins and is completed in 1972.

1990
The University of Queensland consolidates with Queensland Agricultural College (now UQ Gatton, a 1068ha campus 80km west of Brisbane).

1999
UQ Ipswich opens as one of Australia’s first totally web-enabled campuses and about 500 students commence studies.

2010
UQ celebrates 100 years of learning, discovery and engagement with its Celebration Day, Oration Series, Alumni Reunion Weekend, and various other events and activities.
PROGRAM HIGHLIGHTS

For the full program or to tell us your UQ story visit www.uq.edu.au/centenary

WRITERS’ HUB

Whether you are an aspiring writer, published author, or avid reader, this series of author presentations, in-conversation sessions, and panel discussions is bound to inspire.

The UQ Library is proud to present more than 20 authors in the Writers’ Hub, from Nick Earls to Kate Morton, Rosamond Siemon and Kim Wilkins. Visitors will also be treated to performances of Half-Hour Hamlet at 12.30 and Instant Romeo and Juliet from The Queensland Shakespeare Ensemble at 15.30.

For further details see page 7 or visit ‘Writers’ Hub’ at uq.edu.au/centenary/celebration

UQ graduates and published authors Kim Wilkins and Kate Morton are taking part in the Writers’ Hub.

THE FINALE:

DUSK SPECTACLE

The Dusk Spectacle, produced by Brisbane-based J2 Ideas & Events, will be an unforgettable 45-minute performance of rich lighting, projection elements and powerful music, delivered against the sandstone backdrop of UQ’s iconic Forgan Smith Building. The renowned 16-piece deep blue orchestra will deliver an orchestral mix of classical, pop and film music, combined with magnificent light and imagery.

Location: In front of the Forgan Smith Building, map reference H6, 17.45 - 18.30.

INNOVATIONS IN HEALTH AND SCIENCE SEMINARS

UQ’s Australian Institute for Bioengineering and Nanotechnology (AIBN) focuses on developing new products, processes and devices for improving human health and quality of life. In these seminars, AIBN researchers will reveal how the research projects they undertake could impact our lives. Tours of this world-class research institute will also be running from 10.00 – 16.00.

10.00 – 10.30: Introduction to the AIBN, Professor Peter Gray
10.30 – 11.00: Engineering an end to influenza, Professor Anton Middleberg
11.00 – 11.30: Life without needles: Nanopatches for improved vaccines, Professor Mark Kendall
11.30 – 12.00: The Meniscus (knee) project, Professor Justin Cooper-White
12.00 – 12.30: Personal regenerative medicine, Associate Professor Ernst Wolvetang
12.30 – 13.00: Biologic medicines: a panacea for the new millennium? Associate Professor Stephen Mahler
13.00 – 13.30: Nanomaterials in the service of human health, Professor Andrew Whittaker
13.30 – 14.00: Bizarro-Weightlifting on Planet Nano: How tiny dumbbells transform medical diagnostics, Dr Krassen Dimitrov
14.00 – 14.30: From the lab to the market: Innovation and commercialisation, Dr Craig Belcher
14.30 – 15.00: We can read the newspaper on the moon, Professor John Drennan
15.00 – 15.30: Soft, stretchy, strong and stable nanotechnology, Professor Darren Martin
15.30 – 16.00: Learning from nature: Ever wondered what nanotechnology has in common with butterfly wings? Associate Professor Michael Monteiro
16.00 – 17.00: Three minute thesis presentations from AIBN PhD students

Location: Australian Institute for Bioengineering and Nanotechnology (AIBN), Building 75, map reference H11

For further details visit ‘Science, Innovation and Discovery Program’ at uq.edu.au/centenary/celebration

Professor Mark Kendall from the AIBN is working to engineer needle-free vaccinations

Deep blue’s performances are dynamic, breaking the rules of the traditional orchestra.

Location: Australian Institute for Bioengineering and Nanotechnology (AIBN), Building 75, map reference H11

For further details visit ‘Science, Innovation and Discovery Program’ at uq.edu.au/centenary/celebration
GETTING HERE ON THE DAY

LOCATION
UQ’s St Lucia campus is located on the river at St Lucia. The Eleanor Schonell Bridge links the campus to Dutton Park. This bridge is for pedestrians, cyclists and buses.

PARKING
Free parking is available on campus all day. Check the map on the back cover for parking locations.

BUSES
Brisbane City Council buses run regularly to UQ’s St Lucia campus, including routes 109, 169, 209, 402, 411, 412, and 428. The UQ bus stops are located at Chancellor’s Place (map reference F9) and UQ Lakes (map reference L9).

TRAIN
UQ’s St Lucia campus is located between the Toowong and Indooroopilly train stations, and close to the Park Road and Dutton Park stations, with connecting buses to the campus. From Toowong station, take the 411 or 412 bus. From Indooroopilly station, take the 428 bus. From Park Road station take buses 139, 169 or 209.

CITYCAT
CityCats operate between Apollo Road and St Lucia, approximately every 15 minutes.

INFORMATION
For transport information, contact TransLink on 13 12 30 or visit www.translink.qld.gov.au

ENTERTAINMENT & FOOD GALORE

Head to the Great Court to tempt your tastebuds, enjoy a cold drink, meander through the markets, or relax and enjoy live music from an array of talented UQ staff, students and alumni. This entertainment hub will feature a licensed bar from 12.00 to 17.00*, international food stalls, a coffee shop, a program packed with live music and roving performers, and a variety of craft markets in Campbell Place.

* UQ promotes the responsible service of alcohol and encourages visitors to catch public transport or assign a designated driver.

POSITIVE AGEING SERIES

In a joint initiative between UQ Sport, the School of Psychology and the School of Human Movement Studies, the Positive Ageing Series will provide practical information and demonstrations for men and women over 55. This series covers a wide range of topics, from the therapeutic benefits of working with plants to clever gadgets that can improve everyday living and ‘super foods’ that can enhance health and wellbeing.

Location: Alumni Court, Building 16, map reference H9, 9.30 - 16.00.

For further details see page 6 or visit ‘Health and Wellbeing’ at uq.edu.au/centenary/celebration

GLOBAL CHANGE SERIES

Some of UQ’s finest researchers will share their knowledge and expert opinions on local, national and international environmental issues impacting on our community.

9.00 – 10.00: CoralWatch display: Act now for the future of our reefs
9.30 – 10.00: Moreton Bay: Beautiful one day, rubbish bin the next, Dr Kathy Townsend, UQ Centre for Marine Studies
10.15 – 10.45: Biofuels, Professor Lars Nielsen, AIBN
11.00 – 11.30: Reducing your plastic footprint, Professor Peter Halley, AIBN
11.45 – 12.15: Renewable energy: A UQ vision, Professor Max Lu, Foundation Director of the ARC Centre of Excellence for Functional Nanomaterials and UQ’s Deputy-Vice-Chancellor (Research)
12.30 – 13.00: Health-e-Waterways: Global online report cards, Professor Jane Hunter, UQ’s School of I.T. and Electrical Engineering
13.15 – 13.45pm: Green business makes good business, Professor Andrew Griffiths, UQ Business School
14.00 – 14.30: Meeting the challenges of our rapidly changing world, Professor Ove Hoegh-Guldberg, Director, Global Change Institute

Location: Abel Smith Lecture Theatre, Building 23, map reference J7

For further details visit “Global Change and the Environment” at uq.edu.au/centenary/celebration

OTHER HIGHLIGHTS:

UQ Sport salsa dancing............. p. 6
It’s magic and it’s science ........ p. 7
Vote for your favourite UQ treasure and win ...................... p. 8
1001 Tales: UQ stories open mic session ..................... p. 9
Schonell Theatre: Behind the curtain tour .......... p. 10

couriermail.com.au

Proud sponsors of The Courier-Mail Community Talks: Global Change Series; Innovations in Health and Science Seminars; and Positive Ageing Series.

Get your commemorative UQ Centenary lift-out in The Courier-Mail on Friday 16 April
## ENTERTAINMENT IN THE GREAT COURT

During Queensland’s 150th birthday celebrations, the public voted the University’s Great Court as a Queensland icon. See for yourself, as this architectural masterpiece hosts an eclectic mix of live music, international food stalls, a licensed bar, markets, roving performers and kids’ activities.

<table>
<thead>
<tr>
<th>TIME</th>
<th>ARTIST</th>
<th>ARTIST</th>
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</thead>
<tbody>
<tr>
<td>9.30 - 9.55</td>
<td>UQ STRING ORCHESTRA</td>
<td>UQ String Orchestra has attracted some of the most promising young musicians. In 2010, the Orchestra will be under the direction of UQ Lecturer in Composition, Dr Robert Davidson. In celebration, UQ String Orchestra will perform Carl Philip Emmanuel Bach’s ‘Symphony in Eb for string orchestra’ and Dr Robert Davidson’s ‘Elegy’.</td>
</tr>
<tr>
<td>10.10 - 10.30</td>
<td>SO-LA VOCE CHAMBER CHOIR</td>
<td>Formed in 2004 by UQ music students, the choir draws on polyphonic vocal works of the Western European Renaissance and Early Baroque period, along with 20th century and contemporary genres – delivering an enchanting experience for the listener.</td>
</tr>
<tr>
<td>11.00 - 11.45</td>
<td>UQ BIG BAND</td>
<td>From Sinatra to Michael Bublé, Robbie Williams, Brian Setzer and Phil Collins, the UQ BIG BAND is sure to add some pizazz to the centenary celebrations. Directed by the award-winning trumpet player Clint Allen, the band is due to release its second CD in 2010.</td>
</tr>
<tr>
<td>12.10 - 12.40</td>
<td>MARK CRYLE AND THE REDEEMERS</td>
<td>Recently described by Rhythms Magazine as “one of Australia’s finest singer songwriters”, Mark Cryle launched his career with the band Spot the Dog. He has since emerged as a force to be reckoned with, with his recent release ‘House of Cards’ voted Folk Alliance Australia’s CD of the year in 2009.</td>
</tr>
<tr>
<td>13.00 - 13.40</td>
<td>PHILL MCKENNA AND THE WATER SIGNS</td>
<td>When you hear Phill McKenna’s songs, you hear Australia – not only in the distinct sound of his voice, but in the openness of his arrangements and honesty of his writing. His songs are full of Australian imagery and stories and his approach to creativity goes to the very heart of his song writing.</td>
</tr>
<tr>
<td>14.00 - 14.30</td>
<td>JOHN MEYER</td>
<td>John Meyer is one of Australia’s most intriguing and surprising artists. He combines pop, rock, folk and country flavours in unusual and delicious ways, leading to comparisons with artists like Neil Finn, Rufus Wainwright, Sufjan Stevens and Elvis Costello.</td>
</tr>
<tr>
<td>14.50 - 15.30</td>
<td>MONTPELIER</td>
<td>Brisbane based four-piece Montpelier create pop rock with purpose and clarity. Their unique sound is a combination of soaring harmonies and warm melodies, fresh electro-synth and sharp rhythms, and a captivating pop sensibility.</td>
</tr>
<tr>
<td>16.00 - 17.00</td>
<td>THE RIPTIDES</td>
<td>The Riptides began life in 1976 when five UQ Architecture students inspired by the new punk sounds of the time, began to dabble in making music. The group released their first single ‘Sunset Strip’ and became one of the most sought after live acts in the country. In 1988 the Riptides reformed briefly to release ‘Resurface’, which became one of Rolling Stone Magazine’s top 100 albums of all time.</td>
</tr>
<tr>
<td>17.45 - 18.30</td>
<td>THE FINALE: DUSK SPECTACLE FEATURING DEEP BLUE</td>
<td>UQ’s iconic Forgan Smith Building will provide the magnificent sandstone backdrop to what promises to be an unforgettable finale. The Dusk Spectacle will deliver rich lighting, projection elements and an orchestral experience by the renowned deep blue orchestra. Sound, light and imagery, all interspersed with a recognisable mix of classical, pop and film music – this is one finale you won’t want to miss!</td>
</tr>
</tbody>
</table>
### GENERAL PROGRAM

Whether you want to get involved, be entertained, or simply explore the campus and public facilities, we invite you to join in the free celebrations. From environmental presentations to author panel discussions, dance demonstrations and art exhibitions, there’s something for everyone at UQ’s Centenary Celebration Day.

### HEALTH & WELLBEING

Discover the keys to positive ageing, find out just how fit you really are, or simply explore the facilities at UQ that are available for you, your friends and family to use, all year round.

<table>
<thead>
<tr>
<th>TIME</th>
<th>EVENT</th>
<th>LOCATION</th>
<th>MAP REF</th>
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<tbody>
<tr>
<td>8.00 - 13.00</td>
<td>UQ Tennis: Fastennis Tournament</td>
<td>UQ Tennis Centre (Building 28)</td>
<td>K5</td>
</tr>
<tr>
<td>9.00 - 9.30</td>
<td>Morning Nature Walk</td>
<td>Tour departs from Abel Smith Lecture Theatre (Building 23)</td>
<td>J7</td>
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<tr>
<td>9.30 - 16.00</td>
<td>Positive Ageing Series:</td>
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<td></td>
<td>9.30 - 10.00: Relaxation through horticulture</td>
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<td></td>
<td>10.00 - 10.30: The benefits of exercise and activity</td>
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<td></td>
<td>10.30 - 11.30: Pet therapy</td>
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<td>11.30 - 12.00: Tips on safer driving</td>
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<td>12.00 - 13.00: Healthy AND delicious cooking demonstration</td>
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<td></td>
<td>13.00 - 13.30: The benefits of exercise and activity</td>
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<td></td>
<td>13.30 - 14.00: If you can walk, you can dance</td>
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<td></td>
<td>14.00 - 15.00: Innovations in the home</td>
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<td></td>
<td>15.00 - 15.30: The joys of being a grandparent</td>
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<tr>
<td>10.00 - 10.30</td>
<td>UQ Sport Salsa Demonstration</td>
<td>Grassy Knoll, Campbell Place (Near Building 2)</td>
<td>J7</td>
</tr>
<tr>
<td>10.00 - 10.45</td>
<td>Do you Have the Talent of a Sports Star?</td>
<td>Connell Gym, Connell Building (Building 26)</td>
<td>K5</td>
</tr>
<tr>
<td>10.00 - 14.00</td>
<td>Test your Fitness: All levels</td>
<td>Room 329, Human Performance Lab, Human Movement Studies Building</td>
<td>K5</td>
</tr>
<tr>
<td>10.00 - 10.45</td>
<td>Experience Active Tribes: Activity Circuit For 4 - 12 Years</td>
<td>Next to the Great Court INFO tent</td>
<td>I8</td>
</tr>
<tr>
<td>10.45 - 11.15</td>
<td>UQ Sport Capoeira Demonstration</td>
<td>Grassy Knoll, Campbell Place (Near Building 2)</td>
<td>J7</td>
</tr>
<tr>
<td>11.00 - 11.45</td>
<td>Experience a Disability</td>
<td>Connell Gym, Connell Building (Building 26)</td>
<td>K5</td>
</tr>
<tr>
<td>11.00 - 12.00</td>
<td>UQ Sport Tour</td>
<td>Tour departs from the Great Court INFO tent</td>
<td>I8</td>
</tr>
<tr>
<td>11.00 - 16.00</td>
<td>Meet the Neuroscientists at the Queensland Brain Institute</td>
<td>Queensland Brain Institute (Building 79)</td>
<td>G10</td>
</tr>
<tr>
<td>11.30 - 12.00</td>
<td>UQ Sport Tango Demonstration</td>
<td>Grassy Knoll, Campbell Place (Near Building 2)</td>
<td>J7</td>
</tr>
<tr>
<td>12.00 - 12.45</td>
<td>How Good is your Hand-Eye Coordination (U12a)?</td>
<td>Connell Gym, Connell Building (Building 26)</td>
<td>K5</td>
</tr>
<tr>
<td>12.15 - 13.30</td>
<td>Experience Active Tribes: Activity Circuit for 4 - 12 years</td>
<td>Next to the Great Court INFO tent</td>
<td>I8</td>
</tr>
<tr>
<td>12.30 - 13.00</td>
<td>UQ Sport Feldenkrais Bones For Life Demonstration</td>
<td>Grassy Knoll, Campbell Place (Near Building 2)</td>
<td>J7</td>
</tr>
<tr>
<td>13.00 - 13.45</td>
<td>Do you Have the Talent of a Sports Star?</td>
<td>Connell Gym, Connell Building (Building 26)</td>
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<td>13.00 - 14.00</td>
<td>UQ Sport Tour</td>
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<tr>
<td>13.15 - 13.45</td>
<td>UQ Sport Boxing Demonstration</td>
<td>Grassy Knoll, Campbell Place (Near Building 2)</td>
<td>J7</td>
</tr>
<tr>
<td>14.00 - 14.30</td>
<td>UQ Sport Hip Hop Dance Demonstration</td>
<td>Grassy Knoll, Campbell Place (Near Building 2)</td>
<td>J7</td>
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<td>14.00 - 14.45</td>
<td>Experience a Disability</td>
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<tr>
<td>14.30 - 15.15</td>
<td>Experience Active Tribes: Activity Circuit for 4 - 12 years</td>
<td>Next to the Great Court INFO tent</td>
<td>I8</td>
</tr>
<tr>
<td>14.45 - 15.15</td>
<td>UQ Sport Hatha Yoga Demonstration</td>
<td>Grassy Knoll, Campbell Place (Near Building 2)</td>
<td>J7</td>
</tr>
<tr>
<td>14.45 - 15.15</td>
<td>Afternoon Nature Walk</td>
<td>Tour departs from Abel Smith Lecture Theatre (Building 23)</td>
<td>J7</td>
</tr>
<tr>
<td>15.00 - 15.45</td>
<td>Test your Motor Control and Reaction Time to Visual Stimuli (13+)</td>
<td>Connell Gym, Connell Building (Building 26)</td>
<td>K5</td>
</tr>
<tr>
<td>15.00 - 16.00</td>
<td>UQ Sport Tour</td>
<td>Tour departs from the Great Court INFO tent</td>
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</table>
## SCIENCE, INNOVATION & DISCOVERY

From finding a cure for Alzheimer’s to turning sorghum into bio-fuels – we invite you to discover a range of UQ research projects and facilities, and learn how they can help you and your family into the future.

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<tr>
<td>10.00 - 14.00</td>
<td>Future Teaching Space Tours</td>
<td>Advanced Concepts Teaching Space, Sir Llew Edwards Building (Building 14)</td>
<td>I6</td>
</tr>
<tr>
<td>10.00 - 14.00</td>
<td>Meet the Neuroscientists at the Queensland Brain Institute</td>
<td>Queensland Brain Institute (Building 79)</td>
<td>H10</td>
</tr>
<tr>
<td>10.00 - 15.00</td>
<td>eDiscovery Quest and Competition</td>
<td>The Great Court INFO tent</td>
<td>I8</td>
</tr>
<tr>
<td>10.00 - 16.00</td>
<td>Tours of the Institute for Molecular Bioscience, depart hourly</td>
<td>Level 3 Auditorium, Queensland Bioscience Precinct (Building 80)</td>
<td>E8</td>
</tr>
<tr>
<td>10.00 - 16.00</td>
<td>Angstrom Art 2: The Centenary Collection</td>
<td>Auditorium Foyer of the John Hay Building (Building 80)</td>
<td>E8</td>
</tr>
<tr>
<td>10.00 - 16.00</td>
<td>100 Years of Physics Exhibition</td>
<td>Physics Museum, Room 219, Parnell Building (Building 7)</td>
<td>H9</td>
</tr>
<tr>
<td>10.00 - 17.00</td>
<td>Talks and tours of the Australian Institute for Bioengineering and Nanotechnology: See page 3 for details</td>
<td>Australian Institute for Bioengineering and Nanotechnology (Building 75)</td>
<td>H11</td>
</tr>
<tr>
<td>10.00 - 10.30</td>
<td>Introduction to the AIBN</td>
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<td>Biologic medicines: a panacea for the new millennium?</td>
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<tr>
<td>13.00 - 13.30</td>
<td>Nanomaterials in the service of human health</td>
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<tr>
<td>13.30 - 14.00</td>
<td>Bizarro-Weightlifting on Planet Nano: How tiny dumbbells transform medical diagnostics</td>
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<tr>
<td>14.00 - 14.30</td>
<td>From the lab to the market: Innovation and commercialisation</td>
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<tr>
<td>14.30 - 15.00</td>
<td>We can read the newspaper on the moon</td>
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</tr>
<tr>
<td>15.00 - 15.30</td>
<td>Soft, stretchy, strong and stable nanotechnology</td>
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<tr>
<td>15.30 - 16.00</td>
<td>Learning from nature: Ever wondered what nanotechnology has in common with butterfly wings?</td>
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<td></td>
</tr>
<tr>
<td>16.00 - 17.00</td>
<td>Three minute thesis presentations: Short, sharp and sweet from AIBN PhD students</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## WRITERS’ HUB

Enjoy presentations, in-conversation sessions, panel discussions and readings from more than 20 authors, including writers of childrens’ and young adult fiction, playwrights, poets, novelists and writers of non-fiction.

<table>
<thead>
<tr>
<th>TIME</th>
<th>EVENT</th>
<th>LOCATION</th>
<th>MAP REF</th>
</tr>
</thead>
<tbody>
<tr>
<td>9.00 - 17.00</td>
<td>Authors include: Sue Abbey; Christina Alexander; Michael Bauer; Ian Callinan; Stephen Carleton; Ross Clark; Simon Cleary; Matthew Condon; Nick Earls; Annette Henderson; Manfred Jurgen; Bronwyn Lea; Humphrey McQueen; Kate Morton; Craig Munro; Richard Newsome; Toni Risson; Pam Schindler; Rosamond Siemon; Andrew Stafford; and Kim Wilkins.</td>
<td>In front of the UQ Art Museum (Building 11) and Fryer Library, Level 4, Duhig Building (Building 2)</td>
<td>G7, J7</td>
</tr>
<tr>
<td>12.30 - 13.00</td>
<td>Half-Hour Hamlet, The Queensland Shakespeare Ensemble</td>
<td>In front of the UQ Art Museum (Building 11)</td>
<td>G7</td>
</tr>
<tr>
<td>15.30 - 16.00</td>
<td>Instant Romeo and Juliet, The Queensland Shakespeare Ensemble</td>
<td>In front of the UQ Art Museum (Building 11)</td>
<td>G7</td>
</tr>
</tbody>
</table>
# MUSEUMS, MOVIES & MUSIC

UQ's movie theatre, art gallery and museums are open to the public, year round, and welcome you to join in their special Centenary celebrations.

<table>
<thead>
<tr>
<th>TIME</th>
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</tr>
</thead>
<tbody>
<tr>
<td>9.00 - 17.00</td>
<td>Visit the Fryer Library</td>
<td>Fryer Library, Level 4, Duhig Building (Building 2)</td>
<td>J7</td>
</tr>
<tr>
<td>9.30 - 18.30</td>
<td>Entertainment in the Great Court: See page 6 for details</td>
<td>Great Court</td>
<td>H8</td>
</tr>
<tr>
<td>10.00 - 16.00</td>
<td>You Decide: Vote for your Favourite UQ Treasure and Win</td>
<td>UQ Art Museum (Building 11), UQ Anthropology Museum (Building 9), R.D. Milns Antiquities Museum (Building 9), Physics Museum (Building 7), Fryer Library (Building 2)</td>
<td></td>
</tr>
<tr>
<td>10.00 - 11.00</td>
<td>Schonell Theatre: Behind the Curtain Tour</td>
<td>Schonell Theatre, meet at The Candy Bar (Building 22)</td>
<td>K7</td>
</tr>
<tr>
<td>10.00 - 16.00</td>
<td>Angstrom Art 2: The Centenary Collection</td>
<td>Auditorium Foyer of the John Hay Building (Building 80)</td>
<td>E8</td>
</tr>
<tr>
<td>10.00 - 16.00</td>
<td>100 Years: Highlights from the UQ Art Collection</td>
<td>UQ Art Museum (Building 11)</td>
<td>G7</td>
</tr>
<tr>
<td>10.00 - 16.00</td>
<td>Fiona Foley: Forbidden</td>
<td>UQ Art Museum (Building 11)</td>
<td>G7</td>
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<tr>
<td>10.00 - 16.00</td>
<td>Visit the R.D. Milns Antiquities Museum</td>
<td>Level 3, Michele Building (Building 9)</td>
<td>G8</td>
</tr>
<tr>
<td>10.00 - 17.00</td>
<td>The Social Life of Things Exhibition at the Anthropology Museum</td>
<td>Anthropology Museum Gallery, Level 1, Room 117, Michele Building (Building 9)</td>
<td>G8</td>
</tr>
<tr>
<td>10.00 - 16.00</td>
<td>Movie Memorabilia: Yes, I Remember it Well, Schonell</td>
<td>Schonell Theatre, Cinema 2 (Building 22)</td>
<td>K7</td>
</tr>
<tr>
<td>10.10 - 14.20</td>
<td>Queensland University Musical Society Performances</td>
<td>Various</td>
<td></td>
</tr>
<tr>
<td>11.00 - 12.00</td>
<td>1001 Tales: Tales Across Time Storytelling hosted by</td>
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<td>J7</td>
</tr>
<tr>
<td>14.00 - 15.45</td>
<td>Movie Screening: Home of Strangers Bookings essential: <a href="mailto:schonell.theatre@uq.edu.au">schonell.theatre@uq.edu.au</a></td>
<td>Schonell Theatre 1 (Building 22)</td>
<td>K7</td>
</tr>
<tr>
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<tr>
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<td>Morning Nature Walk</td>
<td>Tour departs from Abel Smith Lecture Theatre</td>
<td>J7</td>
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<td>CoralWatch: Act Now for the Future of our Reefs</td>
<td>Abel Smith Foyer (Building 23)</td>
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<tr>
<td>9.30 - 10.00</td>
<td>Moreton Bay: Beautiful One Day, Rubbish Bin the Next</td>
<td>Abel Smith Lecture Theatre (Building 23)</td>
<td>J7</td>
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<tr>
<td>10.15 - 10.45</td>
<td>Biofuels</td>
<td>Abel Smith Lecture Theatre (Building 23)</td>
<td>J7</td>
</tr>
<tr>
<td>11.00 - 11.30</td>
<td>Reducing your Plastic Footprint</td>
<td>Abel Smith Lecture Theatre (Building 23)</td>
<td>J7</td>
</tr>
<tr>
<td>11.45 - 12.15</td>
<td>Renewable Energy</td>
<td>Abel Smith Lecture Theatre (Building 23)</td>
<td>J7</td>
</tr>
<tr>
<td>12.30 - 13.00</td>
<td>Health-e-Waterways: Global Online Report Cards</td>
<td>Abel Smith Lecture Theatre (Building 23)</td>
<td>J7</td>
</tr>
<tr>
<td>14.00 - 14.30</td>
<td>Meeting the Challenges of our Rapidly Changing World</td>
<td>Abel Smith Lecture Theatre (Building 23)</td>
<td>J7</td>
</tr>
<tr>
<td>14.45 - 15.15</td>
<td>Afternoon Nature Walk</td>
<td>Tour departs from Abel Smith Lecture Theatre</td>
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</tr>
</tbody>
</table>

# GLOBAL CHANGE & THE ENVIRONMENT

UQ continues to break new ground with research into global change, and as we celebrate the past 100 years, find out what is making a difference and how you can positively influence the next 100 years. See page 4 for details.

<table>
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</tr>
</tbody>
</table>
## OUR HISTORY

Uncover the history of the University with these special Centenary exhibitions, tours and talks, or share your own recollections of life at UQ at the open mic session.

<table>
<thead>
<tr>
<th>TIME</th>
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</thead>
<tbody>
<tr>
<td>9.00 - 17.00</td>
<td>UQ Law Graduates: Contributing to the Profession Exhibition</td>
<td>Law Library, Level 1, Forgan Smith Building (Building 1)</td>
<td>I7</td>
</tr>
<tr>
<td>9.30 - 10.30</td>
<td>The Great Court Carvings with Dr Rhyl Hinwood</td>
<td>Tour departs from the Great Court INFO tent</td>
<td>I8</td>
</tr>
<tr>
<td>10.00 - 16.00</td>
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<td></td>
</tr>
<tr>
<td>10.00 - 16.00</td>
<td>100 Years of Physics Exhibition</td>
<td>Physics Museum, Room 219, Parnell Building (Building 7)</td>
<td>H9</td>
</tr>
<tr>
<td>10.00 - 16.00</td>
<td>Angstrom Art 2: The Centenary Collection</td>
<td>Auditorium Foyer of the John Hay Building (Building 80)</td>
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Uncover the history of the University with these special Centenary exhibitions, tours and talks, or share your own recollections of life at UQ at the open mic session.

## KIDS’ CORNER

What do science, laser lights, ghosts and sports have in common? The University of Queensland! Kids won’t be bored at UQ’s Centenary Celebration Day, with this range of activities just for them.

<table>
<thead>
<tr>
<th>TIME</th>
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</tr>
</thead>
<tbody>
<tr>
<td>10.00 - 10.45</td>
<td>Experience Active Tribes: Activity Circuit for 4 - 12 years</td>
<td>Next to the Great Court INFO tent</td>
<td>I8</td>
</tr>
<tr>
<td>10.00 - 15.00</td>
<td>eDiscovery Quest and Competition</td>
<td>Next to the Great Court INFO tent</td>
<td>I8</td>
</tr>
<tr>
<td>11.00 - 11.45</td>
<td>Experience a Disability</td>
<td>Connell Gym, Connell Building (Building 26)</td>
<td>K5</td>
</tr>
<tr>
<td>11.00 - 11.30</td>
<td>Laser Light Fantastic Show</td>
<td>Room 222, Parnell Building (Building 7)</td>
<td>H9</td>
</tr>
<tr>
<td>11.00 - 12.00</td>
<td>It’s Magic and It’s Science Show</td>
<td>Raybould Lecture Theatre, Hawken Building (Building 50)</td>
<td>I11</td>
</tr>
<tr>
<td>11.00 - 12.00</td>
<td>1001 Tales: Tales Across Time Storytelling hosted by</td>
<td>Library Conference Room, Level 1, Duhig Building (Building 2)</td>
<td>J7</td>
</tr>
<tr>
<td>12.00 - 12.45</td>
<td>How Good is your Hand-Eye Coordination (U12a)?</td>
<td>Connell Gym, Connell Building (Building 26)</td>
<td>K5</td>
</tr>
<tr>
<td>12.15 - 13.30</td>
<td>Experience Active Tribes: Activity Circuit for 4 - 12 years</td>
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</tr>
<tr>
<td>15.00 - 15.45</td>
<td>Test your Motor Control and Reaction Time to Visual Stimuli (13+)</td>
<td>Connell Gym, Connell Building (Building 26)</td>
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</table>
## Campus Walks & Tours

Explore different aspects of the campus on foot with our guided walks and tours.

<table>
<thead>
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<th>Time</th>
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<tr>
<td>9.00 - 9.30</td>
<td>Morning Nature Walk</td>
<td>Tour departs from Abel Smith Lecture Theatre (Building 23)</td>
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<td>Schonell Theatre: Behind the Curtain Tour</td>
<td>Schonell Theatre (meet at The Candy Bar) (Building 22)</td>
<td>K7</td>
</tr>
<tr>
<td>10.00 - 14.00</td>
<td>Future Teaching Space Tours, depart hourly</td>
<td>Advanced Concepts Teaching Space, Sir Llew Edwards Building (Building 14)</td>
<td>I6</td>
</tr>
<tr>
<td>10.00 - 16.00</td>
<td>Tours of the Institute for Molecular Bioscience, depart hourly</td>
<td>Level 3 Auditorium, Queensland Bioscience Precinct (Building 80)</td>
<td>E8</td>
</tr>
<tr>
<td>10.00 - 16.00</td>
<td>Tours of the Australian Institute for Bioengineering and Nanotechnology (AIBN)</td>
<td>AIBN (Building 75)</td>
<td>H11</td>
</tr>
<tr>
<td>10.30 - 15.30</td>
<td>Tours of Micro Imaging Labs and Whole Body Scanner, depart half-hourly</td>
<td>Reception, Level 2, Centre for Advanced Imaging (Building 60)</td>
<td>H11</td>
</tr>
<tr>
<td>11.00 - 12.00</td>
<td>UQ's Architectural Marvels Tour</td>
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<tr>
<td>11.00 - 12.00</td>
<td>UQ Sport Tour</td>
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<td>11.00 - 11.30</td>
<td>Next Generation Library Tour</td>
<td>Biological Sciences Library (Building 94)</td>
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</table>

## Other Centenary Events

### The Centenary Oration Series

Throughout the year the University will host a number of local, national and international speakers – all of whom are leaders in their fields. Free to the public, the series will cover a variety of topical issues within the fields of science and innovation, medical research, social science and business. The next speakers in the Centenary Oration Series are:

**Dr Tony Haymet: The Coming Robotic Exploration of the Biology of the Global Ocean**

14 April, 6.00 – 7.00pm, Schonell Theatre, UQ

Dr Tony Haymet, Director of Scripps Institution of Oceanography at the University of California, San Diego, will introduce and describe a variety of robots that can function in diverse environments. Dr Haymet will reference some of his Institute's work on climate change and ocean acidification. He will also highlight the opportunities for Australian laboratories to expand their research collaboration in these areas.

**Jack Manning Bancroft: Tomorrow’s Children**

21 April, 6.30pm – 7.30pm, UQ Centre

Hear the truly inspirational story of the 2010 Young Australian of the Year finalist, Jack Manning Bancroft. Mr Manning Bancroft is the founder and CEO of the Australian Indigenous Mentoring Experience (AIME). In 2005, at just 19 years of age, he began AIME with 20 Indigenous kids in Redfern, and is now changing the way educational institutions help Indigenous children succeed in school.

Free to the public. To register and for details on upcoming orations visit uq.edu.au/centenary/oration

### Alumni Reunion Weekend: July 2 – 4

The Centenary Alumni Reunion Weekend will be held at UQ’s St Lucia campus and provide alumni with the opportunity to catch up with old friends from academic, sporting, cultural and social interest groups. Included in the program is the Courting the Greats dinner and a thank you brunch. There will also be individual school and college reunions happening over the weekend – check www.uq.edu.au/centenary for details.
VISITOR INFORMATION

- INFO Tent
- Parking
- BCC Bus Terminal
- Taxi Stand
- Events & Activities
- Eating Facilities
- Student Union Complex/Shops

MULTI-LEVEL CARPARKS

ENTERTAINMENT GREAT COURT

TO CITY

BCC BUS STOP

SECURITY

BUILDING 87A
EMERGENCIES ONLY 3365 3333
SECURITY ENQUIRIES 3365 1234

www.uq.edu.au/centenary
The University of Queensland will lead a $14 million international consortium to help develop scramjet-based access-to-space systems, flying an autonomous scramjet vehicle at eight times the speed of sound – Mach 8, or 8600 km/h.

In parallel, scramjet concepts will be tested at even greater speeds, up to Mach 14, in UQ’s hypersonic ground-test facilities.

Scramjets are air-breathing engines capable of travelling at hypersonic speeds, greater than Mach 5.

Scramjet-based launch systems offer considerable promise for safe, reliable and economical access to space.

The project has been awarded $5 million in phase one of the Australian Space Research Program and also attracts $9 million from an international partnership consortium.

Chief investigator and project director Professor Russell Boyce said the project would answer key scientific and technological questions and build an industry-ready talent pool for a future Australian scramjet-based access-to-space industry.

Professor Boyce said current flight programs conducted in Australia were tackling the fundamental issues related to scramjet-powered atmospheric flight, at up to Mach 8.

“The ultimate aim, however, is to reach high technology readiness levels for access to space.

“This requires scramjet vehicles that can operate at much higher Mach numbers, up to say Mach 14, as part of a multi-stage rocket/scramjet system to accelerate a vehicle to the speed required to leave the earth’s atmosphere.

“No scramjet designs have been flight tested at these extreme speeds before now.

“The gap cannot be easily closed in one leap, and a stepping-stone approach is required.

“Our flight will build on the hypersonic flight experiments that have already been conducted by Australia, and will fly an exciting scramjet concept at the entry point to the scramjet access-to-space Mach range.

“The knowledge we gain will position us for future, higher speed flights, but will also feed back into current efforts at the lower speeds.

“Importantly, we will be training the talent pool for a future space-access industry with the hard core experience that only hypersonic flight experiments can provide.

“In addition, the testing in UQ’s X3 expansion tunnel will push two of our scramjet concepts up through the Mach range, up to Mach 14. No-one has ever done that before for a complete scramjet flowpath.”

Professor Boyce said the project represented the first phase of a 20-year program that ultimately would include ground testing, the development of new materials and flight testing at Woomera in South Australia.

Partners in the new program include four Australian universities — UQ, the University of Adelaide, the University of New South Wales, and the University of Southern Queensland — and the University of Minnesota.

It also includes three international aerospace organisations — DLR in Germany, JAXA of Japan and CIRA of Italy; Australia’s Defence Science and Technology Organisation; the Australian Youth Aerospace Association; and industry partners including Brisbane firm Teakle Composites Pty Ltd, Cairns firm AIMTEK Pty Ltd, BAE Systems Australia, and Boeing Research and Technology Australia.

INFO ➔ www.uq.edu.au/hypersonics
Babies in high demand

The Minister for Health and Ageing, the Honourable Nicola Roxon MP has released a new report involving UQ researchers and focusing on women’s reproductive health.

The study is the latest research from the ground-breaking Australian Longitudinal Study on Women’s Health (ALSWH).

Now in its 16th year, the ALSWH has surveyed more than 40,000 women drawn from three age groups. Women in the youngest age group – born between 1973 and 1978 – were aged 18 to 23 when the first survey was made in 1996 and 28 to 33 when Survey 4 was conducted in 2006.

Report co-author Associate Professor Jayne Lucke from the University’s School of Population Health said the report provided an interesting insight into women’s desires for children.

The report found that 91 percent of the women wanted to have children but at the time they were surveyed in 2006, aged 28 to 33, only half had a child.

For every 10 women, five had at least one child, four had not been pregnant and one had been pregnant but lost the baby.

More than a third (39 percent) of women who had a child also reported having had a pregnancy loss at some time.

“Women do want children, but circumstances sometimes intervene,” Dr Lucke said.

The report found that one in six women experienced fertility problems and of these women, two-thirds had sought advice but only half had pursued fertility treatment.

Marriage remains on the agenda for most women, and this has remained consistent over time.

Women who hoped for marriage were more likely to want two or more children compared to other women.

While the most common desire was for two children, the number of women aiming for just one child increased over time as they grew older.

“Decisions to have fewer children reflect the later ages at which women are having their first child, as well as other aspects of their lives such as career aspirations and whether they have a partner,” Dr Lucke said.

“The report highlights the ongoing need for support for women who are or want to become mothers.”

The ALSWH has been funded by the Commonwealth Government through the Department of Health and Ageing since 1995.

Study Director, UQ’s Professor Annette Dobson, said the research provided an evidence base to Government to assist health policy and programs to keep pace with the evolving needs of Australian women.

Researchers at UQ’s Queensland Brain Institute have uncovered how antidepressants stimulate the brain to improve a person’s mood.

They have discovered the class of drugs that increase levels of a neurotransmitter known as “norepinephrine” triggers neurogenesis – the growth of new neurons – in a brain region called the hippocampus.

“If you block hippocampus neurogenesis, antidepressants no longer work,” lead researcher Dr Dhanisha Jhaveri said.

“That suggests antidepressants must up-regulate neurogenesis in order for them to actually have any affect on behaviour,”

However, the neuroscientists also found not all antidepressants worked in the same way. Dr Jhaveri said surprisingly, the class of antidepressants that increased levels of the neurotransmitter called serotonin – Prozac is a common example – failed to stimulate neurogenesis.

“Norepinephrine is basically binding directly on to the precursors which then initiate a signal which leads to the production of more neurons,” she said.

“Serotonin just doesn’t do that. Prozac doesn’t work by regulating the precursor activity – it may work outside that region, but it isn’t regulating the hippocampus directly. More research is needed to find out what serotonin actually does.”

Using rodent models, the research, published in the Journal of Neuroscience, established that selectively blocking the re-uptake of norepinephrine directly activated hippocampal stem cells, thereby discovering a much larger pool of dormant precursors in the hippocampus than previously thought to exist.

Armed with this information, fellow researcher and team leader Professor Perry Bartlett said the researchers would be able to explore improved treatments for depression as well as dementia.

“Since dementia, especially in the ageing population, appears to be related to a decrease in neurogenesis, this discovery opens up exciting new ways to stimulate the production of new neurons to alleviate the devastating effects of dementia in our society,” Professor Bartlett said.

Dr Jhaveri said the findings would also allow researchers to develop specific and more effective antidepressants.

“Depression is such a complex disorder, so we are going to test different behavioural outcomes to see whether the compounds that increase norepinephrine levels or stimulate beta3 adrenergic receptors work only for certain aspects of depression. We just don’t know yet but it may, for example, improve learning and memory, or reduce anxiety,” Dr Jhaveri said.
Insects are of direct importance to humans as pests, carriers of disease, pollinators, nutrient cyclers, sources of new bioactive compounds, and indicators of environmental change.
There are more species of insects on the planet than any other group. While they are not everyone’s favorite topic, they fascinate UQ entomology lecturer Dr David Merritt, who leads Entomology Curriculum Australia (ECA), a project making an education in entomology available to anyone, anywhere in Australia.

“Most people don’t realise that insects have an enormous impact on the environment, human health, and world economies,” Dr Merritt said.

“Insects are of direct importance to humans as pests, carriers of disease, pollinators, nutrient cyclers, sources of new bioactive compounds, and indicators of environmental change.

“Australia needs entomologists, and the way to provide well-trained specialists is to offer a curriculum that biology students can undertake from anywhere in Australia.

“The key has been to collaborate with other institutions to offer subjects in their area of scholarly expertise.”

Dr Merritt said there was demand for trained entomologists: people who can identify insects and make informed decisions about their pest status and control.

Entomologists are employed in biosecurity, quarantine (including border security), the integrated pest management industry, in pest control, and in universities and museums.

From 2010, a set of four tertiary-level entomology subjects will go online, available in distance education format.

First off the rank is the subject, Insect Physiology, from UQ.

In second semester, Charles Sturt University will offer Integrated Pest Management and University of New England Insect–Plant Interactions.

In summer semester, UQ will offer the subject, Insect Identification (offered the year after at the University of Adelaide).

The advantage of the subjects being offered by distance education is that a student enrolled at any one university can enrol in all four courses.

The subjects are geared toward students with a background in general biology enrolled in a Bachelor of Science or similar program.

The subjects are also available to be taken for the purpose of professional development, for example, by biology teachers and people working in insect-related fields.

“The team has taken great pains to make the distance education experience an engaging and memorable experience for students,” Dr Merritt said.

“We use mini-lectures that students can listen to and watch on their iPods. We have comprehensive websites for each subject where students can interact, view the mini-lectures, view interviews with experts and complete the learning activities.

“We want students to feel they are part of a learning community so we encourage them to form online discussion groups where they figure out ways of tackling a research project.”

In Insect Physiology, real data-sets are made available to students from a server at the host university and students analyse the data and report their findings.

President of the Australian Entomological Society Professor Jonathan Majer said a new generation of scientists were urgently needed to correctly identify and control insect populations.

“Without well-trained entomologists, we could potentially lose a third of our crop production,” Professor Majer said.

“We would be ill-prepared to combat new diseases and pests which enter the country, and we will soon have insufficient taxonomists to identify and name the massive variety of insects that exist in Australia.”

The project was made possible by a partnership between The University of Queensland, the University of Adelaide, the University of Western Australia and Charles Sturt University, supported by a grant from the Australian Learning and Teaching Council.

The website also has guides on how to identify different insects, insect-related news, featured research pages and resources for teachers and insect enthusiasts.

INFO ➔ www.entomology.edu.au
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TRUST IT TO A SAINT
Reef resource encourages action

WITH CONFLICTING REPORTS CIRCULATING ABOUT THE FUTURE OF OUR CORAL REEFS, UNIVERSITY OF QUEENSLAND MARINE EXPERTS ARE HELPING TO SET THE SCIENCE STRAIGHT.

A new book which demystifies the science surrounding coral reefs and climate change will be officially launched at a media event at Customs House at the end of March.

The fully illustrated Coral Reefs and Climate Change: the guide for education and awareness has been published by CoralWatch and supported by The University of Queensland.

Co-authors are educator Craig Reid, Professor Justin Marshall and designer Diana Kleine of UQ, and environmental education officer Dave Logan.

Professor Marshall, an ARC Professorial Fellow at the Queensland Brain Institute and President of the Australian Coral Reef Society and founder of CoralWatch, said many people were confused by conflicting statements about climate change and how this might impact on areas such as the Great Barrier Reef.

“There’s been a big swing back towards climate change sceptics, and we wondered why that was,” he said.

“One of the main reasons appears to be that a lot of people don’t understand the complex scientific arguments put forward.

“In effect, this book helps convey the messages from the Great Barrier Reef Outlook report, data from the Australian Institute of Marine Science and the International Panel on Climate Change for anyone to read.”

Professor Marshall said the book was aimed at anyone wishing to explore the natural wonder and beauty of coral reefs and understand the forces that created and destroyed them.

“Reefs are already beyond 40 percent lost or unrecognisable and are disappearing five times faster than rainforests,” he said.

“Our current aim for carbon emission reduction, with 450 parts per million CO2 in the atmosphere, is a future with no reefs. The best science published in late 2009 tells us that 350ppm CO2 must be our upper limit.”

Professor Marshall said the Native American proverb saying that “We do not inherit our environment from our ancestors but borrow it from our children’s” was nowhere more pertinent than our coral reefs.

The 256-page book is aimed at providing solutions and practical exercises and includes a CD with a workbook for teachers, classrooms and anyone interested in learning more through activities.

INFO → The book is available for $49.50 through CoralWatch (www.coralwatch.org) and the CSIRO.

Doing the maths on climate change

How much does it really cost to stop deforestation?

A UQ economics expert will help answer the complex question when he gives a public lecture at St Lucia this month.

Dr Colin Hunt, a visiting fellow in the UQ School of Economics will present “The real costs of deforestation” at 3pm on March 26.

Dr Hunt said although no binding agreement had been reached at the recent climate change conference in Copenhagen, one bright spot was the agreement by countries including Australia to slow down deforestation, a major source of greenhouse gases.

Last year Dr Hunt published a book on the topic – Carbon sinks and climate change: forests in the fight against global warming. Prior to Copenhagen, he assisted the Papua New Guinean government on the costs and benefits of slowing down deforestation and helped devise its greenhouse policy.

“What is intriguing is the assumption by many researchers that it will be cheap to stop the clearing of tropical forests,” Dr Hunt said.

“This is because of a poor understanding of the multiple beneficiaries of logging, agricultural production and processing.”

Dr Hunt will present the methodology and the results of his research at the seminar to illustrate the economic and social costs of stopping deforestation in Papua New Guinea.

“Companies must be compensated for loss of profits, but so also must governments for loss of taxes. And then there are the working people who are expected to give up the income and employment opportunities of exploiting their forests,” he said.

Dr Hunt will also discuss the problems of underestimating the cost of conservation, using the expansion of “no-take” zones in the Great Barrier Reef as an example.

INFO → The lecture takes place in room 103 of the Colin Clark Building, St Lucia. All welcome.
IN BRIEF

DISNEY TRIP
UQ student Ellen Cunneen has just started a six-month internship at Walt Disney World in Florida, and plans to make the most of the experience.
As part of the trip she has set an ambitious goal: to experience every ride at each of the six theme parks.
The 19-year-old is working at a resort restaurant, greeting and seating guests, taking reservations, reconciling income, analysing revenue reports and paying servers.
Ms Cunneen hopes the placement will give her a better idea about which field she would like to enter on completing her international hotel and tourism management degree next year.

Why are flags featuring kangaroos taken to the Olympic Games? And how did the Sydney Opera House survive early controversy to become a national symbol equal to the Eiffel Tower?
In their new book Symbols of Australia, editors Dr Melissa Harper and Richard White answer these questions and decode dozens of symbols that have come to help define Australian culture.
"These symbols help to define who we are as Australians and our country," said Dr Harper, a lecturer from UQ's School of English, Media Studies and Art History.
"They embody our attitudes, characteristics and values for Australians and to outsiders." The list covers icons in food, fauna, flora, architecture and culture.
"It wasn't an easy selection process. We started with over 40 and worked our way down to 26," Dr Harper said.
She said the history behind some of the symbols was quite complex, with the iconic wattle flower being a case in point.

Archibald entry inspired
One of Queensland's most respected sculptors has turned from artist to muse to make a UQ graduate's entry to this year's Archibald Prize possible.
Artist Terry Bouton has created Nil Sine Labore: Conversation with Rhyl, turning the tables on Dr Rhyl Hinwood, whose iconic sandstone sculptures decorate the St Lucia campus.
Having met two years ago through Sculptors Queensland, the artists' friendship has grown from their shared love for capturing the likenesses and inner characters of their models in stone, ceramic and oil.
"Rhyl is such an amazing artist who has a wonderful ability to capture a likeness and offer her works personality that viewers can understand without knowing who the person behind the stone or metal is," Ms Bouton said.
"She also offers so much inspiration to budding artists, especially women, having sculpted more than 700 artworks for churches, organisations, institutions and federal, state and local governments in over five decades.
"Such a career would not be possible without hard work and determination, which the title of the portrait suggests." Ms Bouton said.
Ms Bouton completed a Bachelor of Arts in 1996 after several years working as an art teacher.

However, even though she knew of Rhyl and her works, Ms Bouton has no recollection of seeing her friend working away in UQ's Great Court, where Rhyl has created more than 300 of the grotesques, coats of arms and flora and fauna carvings over the last four decades.
Fittingly, in 2001, Rhyl was awarded an Honorary Degree of Doctor of Philosophy for her outstanding contribution to the University and to the visual arts in Queensland.
Visitors to UQ’s Schonell Theatre on UQ Centenary Celebration Day next month could be forgiven for getting chills up their spines.

Since the theatre’s opening in 1970, there have been six sightings of the same ghost as well as numerous reports of her playing tricks, especially on cleaners late at night.

Dubbed “Sophea” by theatre staff, she has been sighted by cleaners, a maintenance man and the theatre’s manager and projectionist Ross Martin, a self-confessed sceptic when it comes to matters supernatural.

The Schonell Theatre has a number of events lined up for the event on April 18 including “Behind the Curtain Tours” where members of the public can tour the production box, backstage and orchestra pit. These tours will be held at 10am and 1pm on the day and be led by Mr Martin.

The theatre will also screen Home of Strangers, a feature film made by UQ staff and students in 2009 to raise funds for a Vietnamese orphanage.

To help celebrate the theatre’s own 40th anniversary as well as the University’s Centenary, Theatre Two will host a display of movie and Schonell memorabilia including old projectors, movie posters, film reels and newspaper articles blended with a reel of previews for upcoming movie releases.

And if all this leaves visitors with an appetite, they can enjoy a pizza at the adjoining Pizza Caffe. Mr Martin said the tours provided the best opportunities for spotting “Sophea”.

“Sophea” just looks like a real flesh-and-blood human being which is why it’s easy to be fooled.

“She just looks like a real flesh-and-blood human being which is why it’s easy to be fooled. The spookiest sighting was one night when two of us saw this lady go in to a dressing room after a show. When we went into the dressing room right behind her, it was empty and there were no other exit points from the room.”

UQ alumnus, former Deputy Chancellor and current Senator, Robert Wensley QC, chaired the committee that organised the building of the Schonell Theatre in 1970 and was instrumental in organising its opening production, an original musical entitled Bacchus, based on the legend of Dionysus. Mr Wensley played one of the lead roles in the production with a young Geoffrey Rush as a fellow cast member.

The Schonell Theatre consists of Theatre One – a 420-seat space capable of hosting projected films, musical performances, plays and lectures, and Theatre Two – a 180-seat cinema.

INFO ➔ A full program is available in the centre of this edition and at www.uq.edu.au/centenary

– SHIRLEY GLAISTER
UQ student Mitchell Watt has continued his world beating form in long jump, taking out the event at the Brisbane Athletics Classic last month with a massive leap.

Mr Watt’s jump of 8.15m was a meet record and sealed his second title for the year.

The 21-year-old commerce/law student and UQ Sport scholar has gone from strength to strength since his world championships bronze medal win in Berlin last August.

When Mr Watt took up casual long jump training in the summer holidays of 2007, little did he know that within two years he would be chasing Olympic silver medallist Jai Taurima’s Australian record of 8.49m.

His long jump career took off in 2009, kick-starting the year with a jump of 8.04m on the Gold Coast. He went on to leap 8.11m and finish second at the World Athletics Tour in Melbourne.

Mr Watt took five years out from track and field to try his hand at other sports including AFL and rugby, but with his long legs and sprint pace, his true talent shone in the long jump pit, and with just one year of training he was selected for the Australian 2009 World Athletics Championship team.

He now plans to move to Europe with his coach Gary Bourne to immerse himself in the world of professional sport.

“Life has changed a lot since my career took off and I am very grateful to the University for assisting me in achieving my goals and helping to build a base for my professional career after sport,” Mr Watt said.

“I have my sights set on Commonwealth, and maybe even Olympic Gold, but I believe it is important for athletes to have some other qualifications and career goals behind them because sporting careers can be cut short and always come to an end at some point.”

Mr Watt will compete for a place on the Australian Commonwealth Games team when he competes at the National Athletics Championships in April.

INFO ➔ www.uqsport.com.au

Active kids become part of the tribe

UQ Sport’s hugely popular junior sporting program, Active Tribes, has been taken over by hundreds of energetic children.

More than 1000 participants aged between six months and 17 years have enrolled in swimming, athletics and tennis programs designed to encourage a lifelong passion for physical activity and sport.

Committed to helping tackle problems such as childhood obesity, the Active Tribes program caters for all skill and fitness levels.

Operations Coordinator Sarah Cox said it was important for children of all ages to enjoy being active in a fun, supportive and safe environment.

“UQ Sport’s vision to create communities with a shared passion for physical activity is embodied by Active Tribes. It is important that children have a positive sporting experience at an early age. We want the kids to feel a part of the action.”

Active Tribes is offered at all UQ Sport-managed venues at St Lucia and the Queensland Tennis Centre at Tennyson.

Tennis Program Coordinator Alex Reeman-Clark said it was great to see such enthusiastic young participants.

“Having 25 kids bursting to get out on court is a testament to how well the Active Tribes program is going. Seeing the smiling faces of all of the children doing physical activity is really rewarding.”

Active Tribes programs are designed to progress a child’s development in a fun and inclusive environment. Children learn new skills, master current ones and develop confidence while socialising and having fun.

INFO ➔ www.activetribes.com.au

Fit and fun: children take part in an Active Tribes tennis class
**EVENTS/NOTICES**

- **Thursday, April 8**
  Peter Goodenough Memorial Lecture 2010 “Philanthropy and the Brain: Making Connections”. The lecture is named in honour of the late Mr Peter Goodenough, a QBI benefactor who provided an inspirational private bequest for scientific research into motor neuron disease (5–6pm Level 7, Queensland Brain Institute). Information: (07) 3346 6402, m.paiva@uq.edu.au

- **Saturday, April 13**
  Public seminar “Infectious Ideas: Memes and Metaphors”. Dr Peta Mitchell (2–3pm, Level 1, Duhig Building). Information: (07) 3346 7407 or r.ralph@uq.edu.au

**GENERAL CLASSIFIEDS***

*Classifieds are free, but are available only to staff, students and visiting academics. Please send listings to penny.robinson@uq.edu.au

- **Accommodation wanted**: New staff member looking for dog-friendly accommodation within cycling distance from St Lucia. Either house-sharing with a similar professional or affordable rental. Contact: 0414 246 683 or g.kelly4@.uq.edu.au

- **To rent**: Two bedroom, two bathroom townhouse in western suburbs. Available for rent to visiting academic from April to July. Fully furnished with linen provided. Contact: 0406 127 546 or b.ware@talk21.com

- **To rent**: Large room with built-ins in furnished house. Wooden floors, guest space downstairs and leafy garden. Close to shops, park, river and trains. Seeking responsible non-smoking woman. Rent includes electricity. Access to wireless can be added. $180 a week. Contact: 0407 925 176.

**SCHOLARSHIPS**

- **Constantine Aspromourgos Memorial Scholarship for Greek Studies**
  Available to students who hold a bachelor’s or master’s degree and are undertaking a postgraduate study program involving Greek Studies. Worth: approximately $3,860. Closing: March 26, 2010. Information: ugscholarships@uq.edu.au or 3365 1984.

- **Venerable Archdeacon Edward Leo Hayes Scholarship**
  Open to currently enrolled full-time UQ undergraduate students 25 years and older. Based on financial need and academic merit. Preference given to applicants who have lived or worked in the Darling Downs for a period of 12 months. Worth: $500 annually for minimum duration of program. Closing: March 31, 2010. Information: ugscholarships@uq.edu.au or (07) 3365 1984.

- **EOH Handy Memorial Scholarship**

- **WH & HW Harris Bursary 2010**
  Open to female students who are of lineal descendant to a person eligible to be accepted as a member of the War Widows Guild, Australia (Queensland Branch). Based on 2009 academic results. Worth: Approximately $990 for three years. Closing: April 30, 2010. Information: (07) 3365 1984.

- **RN Hammon Scholarships 2010**
  Open to assist Australian Aboriginal and Torres Strait Islander students who have successfully completed at least one year of a program. Preference given to applicants studying in the fields of science, engineering, medicine, dentistry, architecture, agriculture and veterinary science. Worth: $3000. Closing: March 19, 2010. Information: Phone (07) 3365 1984.

- **Salvatore Vitale Scholarships 2010**

**UQ NEWS DEADLINES**

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ARMY RESERVE. THE PART TIME OF YOUR LIFE.
Race relations, female sexuality and the history of opium in Queensland are among the issues tackled head on by the UQ Art Museum's latest exhibition. Fiona Foley: Forbidden opened last month and is the first survey of one of Australia's most prominent contemporary Indigenous artists.

One of the founding members of Boomalli Aboriginal Artists' Co-operative in 1987, Ms Foley has produced major public artworks, sculpture, photographs, artist prints, paintings and installations that have attracted national attention and respect.

"Fiona Foley is a Brisbane-based artist who is well known for the tough stance she takes on Indigenous history, but in her art she takes the phrase 'less is more' to heart, sometimes adding a sharp edge of humour," UQ Art Museum Director Nick Mitzevich said.

The exhibition is presented in partnership with the Museum of Contemporary Art in Sydney (MCA), and tracks the artist's work over the past 15 years.

The survey coincides with Ms Foley's recent completion of major public art commissions in Mackay and at the State Library of Queensland, the latter referring to the Aboriginals Protection and Restriction of the Sale of Opium Act of 1897.

"What I am trying to talk about is a notion of truth," Ms Foley said.

"I suppose my reputation has preceded me, because when I see something that doesn’t sit well, I always question it."

Ms Foley is of the Wondunna clan of the Badtjala people from the Hervey Bay region, with much of her work motivated by the systematic dispossession of Indigenous people in Queensland at the turn of the twentieth century.

"Foley's HHH series, for instance, presents a confronting inversion of the KKK (Ku Klux Klan) and was made when the artist was in New York in 2004," Mr Mitzevich said.

"The photographs depict African-Americans glaring at the camera, each cloaked in a black hood emblazoned with the initials HHH – "Hedonistic Honky Haters" – and their gowns made of wonderfully colourful Dutch-wax cloth that celebrates their African heritage."

Her recent film Bliss (2006) also features as does the photographic suite Wild Times Call (2001), created with the Seminole community in Florida, which is ambitiously installed within a sea of corn at the UQ Art Museum.

The exhibition proved popular at the MCA over summer, with more than 70,000 visitors. Fiona Foley: Forbidden is open free to the public, seven days a week, until May 2.