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AUGUST 2003 NO. 528

ROLLING BACK ROCKS RECORD
Hadean era exposed

CROCODILE HUNTERS

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MESSAGE FROM THE VICE-CHANCELLOR

UQ’s Teaching and Educational Development Institute (TEDI) turned 30 recently (see story page 8) and the celebration was more than merely marking another birthday – it was an occasion to acknowledge the remarkable transformation in teaching at the University.

In the past three decades pedagogical and technological changes have driven TEDI’s approach. The shift away from what the teacher does to how the student learns influenced TEDI’s direction in teaching and learning strategies. Equally, technological advancements presented both challenges and opportunities, and the Internet now plays a key role in learning processes at UQ.

Among TEDI’s many achievements was its role in establishing the UQ Awards for Excellence in Teaching which are now a highlight in the University calendar. The Institute has made an important contribution to a range of multimedia and flexible learning initiatives over many years. Last year TEDI ran 167 teaching and learning courses for 1662 academic staff members; processed 125,151 student and 1045 course evaluations; and helped develop more than 150 e-learning courses.

In the midst of rapid change, TEDI’s emphasis has always been on service to people. With this approach and commitment, I am confident this vital unit will continue to support excellence in teaching at UQ.

Professor John Hay
Vice-Chancellor

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UQ's Dr Philip Baker has spent the past three years looking at how to prevent kidney failure in Aboriginals.

Dr Baker, who graduated with a PhD in July, completed his thesis among the Tiwi people of the Northern Territory (NT), who until recently had a renal failure rate 60 times higher than the non-Aboriginal NT population.

“Renal failure causes much suffering for Aboriginal and Torres Strait Islander people,” Dr Baker said.

“Treatment involves regular travel for medical care, frequent blood samples, the discomfort and often the need to relocate away from family members for dialysis.”

Dr Baker, in collaboration with the Menzies School of Health Research in Darwin, evaluated the effects and costs of a screening treatment program developed by his supervisor Professor Wendy Hoy from the School of Medicine.

The program operated in partnership with local health boards and health workers and focused on the administration of prescription medicines combined with rigorous blood pressure control. People at risk or with early renal disease in the Tiwi Islands were targeted.

Over the assessment period, clinical data indicated a marked improvement in the participants’ health and the need for dialysis fell.

Dr Baker’s research also found the annual cost of the treatment program was $1210 per person per year.

This was offset by cost savings, estimated at between $800,000 to $11.4 million over three years based upon a reduced need for dialysis.

The research was funded by a National Health and Medical Research Council scholarship and followed a World Health Organisation needs-based health technology assessment method.

Dr Baker said the findings highlighted the importance of funding health interventions which reduced an identified burden of illness rather than those driven by new technological breakthroughs.

UQ researchers have developed a new drug to modify blood-clotting that does not have the side effects of existing medications.

The researchers have received venture capital and government support to help commercialise their research.

The investment consortium was led by a $428,000 investment from UniSeed Pty Ltd, a dedicated pre-seed fund established by UQ Holdings Pty Ltd and Melbourne University Private.

The new Brisbane-based company, Thrombostat Pty Ltd, also received $250,000 through AusIndustry’s Biotechnology Innovation Fund, and $125,000 under the Queensland Government’s $3 million BioStart program.

UniQuest Pty Ltd, UQ’s main technology commercialisation company, formed Thrombostat earlier this year.

The company aims to develop several new compounds that inhibit blood clotting with potentially far less side effects than drugs such as aspirin, which were identified by researchers led by Professor Michael Roberts and Dr Daniel Hung of UQ’s School of Medicine.

“This is life-saving research, as more than 50,000 people die of cardiovascular disease each year in Australia,” said Queensland Government Innovation Minister Paul Lucas.

“Millions of patients worldwide are prescribed some form of anti-clotting medication to help prevent strokes and thrombosis, however up to 60 percent of patients have adverse reactions such as chronic stomach ulcers.”

He said the global market for anti-clotting agents to treat cardiovascular disease and thrombosis was worth about $4.3 billion.

The company Directors, UniSeed’s Dr Peter Devine, UniQuest’s Dr Lisa Bidwell and Professor Roberts, said the capital injection would propel the new drugs further along the commercialisation pathway.
A joint project being carried out by Queensland Parks and Wildlife Service (QPWS) and UQ is attempting to reduce negative human interaction with estuarine crocodiles by tracking their movements.

Former UQ PhD student Dr Mark Read from QPWS’s Crocodile Management Unit, is attempting to trace the movements of the world’s largest living reptile using satellite tracking systems placed on crocodiles in the Endeavour River in Cooktown, north Queensland.

He is collaborating with two internationally-recognised authorities on the biology and physiology of crocodiles – Professor Gordon Grigg and Associate Professor Craig Franklin from UQ’s School of Life Sciences, as well as QPWS’s Crocodile Management Advisory Committee.

Dr Read, who is chief investigator on the project, said the project would help with the management of the animals.

“We have limited information on the spatial requirements of large estuarine crocodiles so this project will make our knowledge and understanding of how they use space through time internationally significant,” he said.

“This information will not only increase our knowledge of the biology of these animals but also has implications for the management of this potentially dangerous species throughout its natural range.”

Professor Grigg said satellite transmitters had been attached to the large scales of the nuchal shield on the necks of two crocodiles after one 4.35 metre male and one 2.65 metre female had been caught in traps floating in the Endeavour River.

“Both crocodiles were released as close to their capture location as possible and on the same day they were taken from the floating traps so the time they were kept from the waterway was minimised,” he said.

Mr Tanner’s bequest to support crocodile research was instrumental in providing funding for the project.

The female crocodile was named Harriett after Professor Harry Messel, the first person to try to study the movement of estuarine crocodiles by radio telemetry and who, as Head of the University of Sydney’s School of Physics, first supported Professor Grigg’s interest in crocodiles.

Dr Franklin said the local people had great respect for crocodiles.

“It is about living with crocodiles and making sure the interactions are positive and not negative,” he said.

“Records show that males can grow in excess of seven metres with a body mass of around one tonne.”

Dr Franklin said the long-term plan was to attach between 10 and 20 transmitters to crocodiles residing in waterways around Weipa in the north-western Cape York Peninsula.
Teachers needed

The Institute of Continuing and TESOL Education (ICTE-UQ) is looking for people with relevant degrees and experience to offer short courses in its Community Education Program for 2004. Subjects include: human society; science and natural environment; the arts; literature and philosophy; effective writing; personal and professional development; business and finance; and computers.

Information: 07 3365 6739, www.icte.uq.edu.au

Vale Carolyn Baker

UQ Associate Professor Carolyn Baker died on July 12.

Dr Baker was appointed to UQ’s School of Education in 1991 and served as an elected member of Academic Board, a member of the Standing Committee of Academic Board and Director of Research and Postgraduate Studies in the School of Education.

She had an international reputation in the sociology of reading, literacy, ethnomethodology and the application of conversational analysis to educational talk.

Back to UQ Gatton

UQ Gatton graduates are invited to attend a Back to College Weekend on December 6–7.


Information: 07 5460 1724, gcpsa@uqg.uq.edu.au

Wells public lecture

Regenerative medicine will be discussed at the upcoming 2003 Wells Bequest Public Lecture.

It will be held on August 28 at 6pm in the Institute for Molecular Bioscience Auditorium, Queensland Bioscience Precinct, UQ St Lucia.

The Director of the Parker H. Petit Institute for Bioengineering and Bioscience in the United States, Professor Robert Nerem, will discuss Regenerative medicine: The science, the technology and in the industry.

RSVP: 07 3365 1950, gabrielle@uq.edu.au

ADHD research call

The UQ Psychology Clinic is asking parents of children diagnosed with Attention-Deficit Hyperactivity Disorder to help in an important research project.

The project will evaluate strategies from a new parenting program and measure the overall well-being and parenting style of participants.

The project may also result in new programs specifically designed for children with ADHD.

Parents will be asked to fill out questionnaires before attending one session at the clinic to view a video demonstration of parenting strategies from the new program.

Information: 07 3206 3074, reneeand@psy.uq.edu.au

Getting a roll on

UQ staff and students are invited to enter rolling devices with three or more wheels in various categories.

Donations of $20 per team (three to four people) will benefit research at the Royal Brisbane and Royal Women’s hospitals.

Volunteer marshalls are required and will receive a free breakfast.

Information: 07 3636 7748

History set in

Vanishing rocks could hold the secrets to the origins of life on Earth, according to a team of University researchers.

When did life on Earth originate and what kind of environment was it established in?

A team from UQ’s Advanced Centre for Queensland University Isotope Research Excellence (ACQUIRE) hope to discover the answers from their investigations into a time in the Earth’s history between 4.68 and 3.85 billion years ago known as the Hadean era.

ACQUIRE senior research fellow Dr Balz Kamber said the problem with finding answers was that the Hadean era left no rock record.

“The absence of rocks for the period we are trying to understand obviously determines the limited methods we can apply for studying this time window,” Dr Kamber said.

“Hence the situation is like a forensic problem where no witnesses can be found for a case.”

The team’s only alternative has been to study the oldest known rocks from the period immediately after the Hadean era in the hope they contain some memory of the time before they formed.

Using a combination of fieldwork, geochemical data and sophisticated radiogenic isotope data from a variety of rocks from south-west Greenland and northern Labrador, they have discovered a range of such memories.

Dr Kamber said the most important discovery was that the oldest known rocks chemically intact, contain an unexpected range of initial lead (Pb) isotope ratios.

These ratios provide important clues to how the Earth looked during the Hadean era.

“The bottom line of this finding is that not only do Pb isotopes in these rocks show that during the Hadean period the Earth was encased in a crust of basalt like the moon, but also that this crust must have formed by 4.4 billion years ago and then persisted until around 3.85 billion years ago,” Dr Kamber said.

“It is that persistence that is remarkable in view of the fact that it then all of a sudden completely disappeared.”

Dr Kamber said the key to the disappearance of the ancient terrestrial crust was the establishment of subduction where the edge of a crustal plate is forced below the edge of another.

ACQUIRE Director Professor Ken Collerson said the presence of an ocean permitted subduction of plates and caused the disappearance of the Hadean crust.

... the situation is like a forensic problem where no witnesses can be found for a case ...
“Towards the end of the late heavy meteorite bombardment between 3.95 and 3.85 million years ago, an ocean formed on the Earth’s surface which irreversibly changed the geology of the planet and provided the niche for life on Earth,” Professor Collerson said.

Dr Kamber said it was interesting that isotopic memories and mineral remnants of the Hadean crust could only be found in those regions of the Earth where rocks older than 3600 million years existed.

“This suggests to us that in areas where a lot of new crust rapidly formed between 3.8 and 3.6 billion years ago, remnants of the Hadean crust could accidentally have been preserved and may await discovery,” he said.

Dr Kamber said UQ researchers including Professor Collerson, Dr Robert Bolhar and Dr Alan Greig were examining rocks provided by Professor Collerson’s previous research in northern Labrador and from the University of Oxford where Dr Kamber began his research seven years ago.

He said the team’s discovery was made possible due to the superior analytical data obtained in the ACQUIRE laboratory.

The rocks are being examined alongside high-quality chemical and isotopic data obtained at the Centre and analyses provided by Dr Martin Whitehouse from the NordSIMS facility in Stockholm.

Professor Collerson, who first discovered the very ancient rocks in northern Labrador more than 30 years ago, is planning to return to this remote and logistically challenging region in 2004, providing funding can be found.

He said proposed new field mapping and sampling would provide further information about field relationships and additional important samples enabling the ACQUIRE team to characterise the cryptic record of early Earth processes.
Asperger’s study
The Behaviour Research and Therapy Centre at UQ St Lucia will be conducting small group interventions for anger management in children 10 to 13 years of age with Asperger’s syndrome.

The intervention consists of six two-hour sessions on consecutive Saturdays, plus one intake interview with parents before the intervention.

A parent is required to attend parent training sessions. Information: 07 3365 6411, kate@psy.uq.edu.au

Brain injury project
People with mild to severe brain injury are needed for a School of Health and Rehabilitation Sciences’ study into speech impairment.

Researchers are developing a speech therapy program for individuals following brain trauma.

People with or without speech difficulties older than six years are required, with travelling expenses paid for within south-east Queensland. Information: 07 3365 8876, y.cheng@shrs.uq.edu.au

A new gateway for lawyers to go online
A UQ institution has worked consistently for three decades to improve the quality of the University’s teaching procedures.

“WebLaw solves the key issues of provenance and trustworthiness of information, thus saving time and effort.”

Ms Thorsen said WebLaw was different from other legal websites because any site found in the database had been through an authentication process by expert staff at one of WebLaw’s contributing partners with only the best and most trusted sites making the cut.

Ms Thorsen said so far 21 institutions were involved in WebLaw with each one contributing records in its own area of expertise.

The database is constantly updated and links to full text legislation, organisations, publications, educational materials and other legal sites. New contributing partners are being sought to ensure the database continues to improve.

TEDI celebrates 30th birthday
TEDI was founded in 1973 with eight staff members. Today TEDI employs 45 staff, many in positions unheard of in the 1970s such as computer programming, desktop publishing, web development and instructional design.

Last year TEDI ran 167 teaching and learning courses for 1662 academic staff members; processed 125,151 student and 1045 course evaluations; and helped develop more than 150 e-learning courses.

Thirty butterflies were recently released by UQ’s Teaching and Educational Development Institute (TEDI) as part of its 30th anniversary celebrations.

The butterflies, one for each year, were released by the newest and longest-serving staff members to symbolise how TEDI had transformed, evolved, developed and grown.

UQ established TEDI in 1973 to improve the quality of its teaching and learning by research and practical means.

TEDI Director Denise Chalmers said despite a period of enormous change in the higher education sector, some of the Institute’s activities were surprisingly similar to those carried out in the 1970s.

“There’s no doubt that changes in technology such as the Internet, and a shift in the teaching and learning emphasis from what the teacher does to student learning, have had an impact,” she said.

“Government measures have also meant more benchmarking and accountability and a need to provide evidence of the quality of the University’s teaching and learning process.”

Many of TEDI’s activities have led to pioneering achievements.

In 1988, on TEDI’s recommendation, UQ was the first Australian university to establish Awards for Excellence in Teaching, funded initially by The Alumni Association of The University of Queensland Inc.

Setting a legal precedent
“WebLaw solves the key issues of provenance and trustworthiness of information, thus saving time and effort.”

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Mid-year welcome for new students

The Orientation program ran from July 21–27 with information sessions taking place at the University's St Lucia, Ipswich, Gatton and COTAH campuses.

Student Centre Manager Eril McNamara said the comprehensive program gives students the opportunity to find out more about study programs as well as the University's academic and personal support services.

"About 2500 students joined UQ in July and traditionally there are more new international than domestic students at this time," she said.

A free program guide, colour-coded by faculty, was produced to help students find both compulsory academic and optional information sessions, with the information also available online.

Ms McNamara said essential sessions covering course information, academic advising, Information Technology training and campus tours were available at all four campuses.

"Other information sessions which proved successful at the beginning of the year, such as Avoid Plagiarism and Transferring Programs, were also repeated for both new and continuing students," she said.

Favourite Orientation social activities such as Market Day, UQ SPORT demonstrations and a ReVitalize band concert took place during ReUnion Week from July 28–August 1, the first official week of semester.

Tips on finding accommodation, financial survival and avoiding plagiarism were some of the useful information sessions on offer to new and continuing students during UQ's mid-year Orientation program.

Opening doors

The University's St Lucia campus opened its doors to the wider community this month for its annual Open Day.

More than 25,000 people visited the campus on August 3 to learn about the various study options available.

"The day was a huge success and gave prospective students and their families the opportunity to talk one-on-one with representatives from all the programs available at UQ," said Dean of Students Dr Lisa Gaffney.

"It also provided them with the opportunity to have a look at our outstanding resources and facilities."

UQ's museums, libraries and cafes enjoyed a steady stream of visitors with students helping guide visitors around the campus and leading walking and bus tours throughout the day.

Activities on offer included robotic demonstrations, virtual tours through an underground mine, performances from the Queensland Shakespeare Ensemble, marine science displays, koala tracking and an UltraCommuter sustainable vehicle display.

Information sessions were held for all study areas as well as alternative and mature age entry and how to improve entry scores, change programs and transfer to UQ.

In addition to campus bus and walking tours, Library and UQ SPORT tours were on offer throughout the day.

More than 1100 people also attended the Postgraduate Expo in the UQ Centre at St Lucia on August 4.

The annual event is designed to provide UQ students with information about postgraduate study options.

Representatives from each of the University's postgraduate programs were on hand to answer questions and provide details about how postgraduate study can be used to upgrade qualifications, make a career change or pursue cutting-edge research.

UQ Ipswich's Open Day will be held on August 17 from 10am–2pm, and UQ Gatton's on August 24 from 9.30am–3pm.

www.uq.edu.au/opendays

Left: three-year-old Alex at the entomology display. Right: UQ environmental science student Cherie O’Sullivan (left) with Doonamay from Lindisfarne Anglican School. PHOTOS: KAYLENE BIGGS

Left: ausgym-atics instructor Vadym Kystalov. Centre: Market Day stalls. Right: UQ SPORT's Rowan Foster with Tina Skinner (centre) and Megan King.
UQ remains number one in uni guide

The independent consumer guide released in July provides ratings, rankings, comment and information about Australian higher education institutions.

The University received the maximum five-star rating for nine main categories: prestige; non-government earnings; student demand; research grants; research intensity; toughness to get in (UQ St Lucia); international enrolments; getting a job; and positive graduate outcomes.

UQ was the only Queensland university to receive the highest rating for prestige, student demand, research grants, research intensity, getting a job and positive graduate outcomes.

UQ NEWS, August 2003

Ipswich swings to musical beat

Country music stars helped launch four Australian-first courses at the University.

The culture of Australian country music will be under the spotlight in one of four new courses to be offered at UQ Ipswich.

The courses will focus on "music cultures", including popular and contemporary music.

John Williamson and other leading country music artists helped to celebrate the launch of the courses at a function on August 4.

The event was hosted by the Country Music Association of Australia (CMAA) at UQ Ipswich.

Dr Shirley Tucker from UQ's Contemporary Studies Program has been working in close consultation with the CMAA and said the organisation had been extremely supportive during the course development process.

She said she was delighted the Board had agreed to hold a function to celebrate the University initiative.

"Clearly the industry is motivated by the prospect of gaining graduates who can specialise in the industry and enhance research in contemporary music culture," she said.

"Country music in particular, as the longest sustaining popular music genre in Australia, has made an important contribution to our understanding of what being Australian means."

CMAA President John Williamson sang a duet with Golden Guitar-winning artist Sara Storer at the launch and country music artists Dobe Newton, Pat Drummond, Jim Haynes and Brendon Walmsley also performed.

"An academic approach to our music is not something a lot of people would have contemplated before now," Mr Williamson said.

Clearly the industry is motivated by the prospect of gaining graduates who can specialise in the industry...

"It’s an exciting move, one we are very pleased to see."

"The extension of country music into formal study will provide more substance to our industry, more pathways for people to examine and understand country music, and opportunities for people already in the industry to extend their involvement to this level if they wish."

The courses will be offered through UQ Ipswich’s Contemporary Studies Program and will be part of studies in media and culture.

Two first-year courses, examining aspects of music and popular culture, will be available from next year.

Two advanced courses are being developed for 2005 by Dr Tucker and Dr Keith Beattie from the Contemporary Studies Program.
The inaugural Vice-Chancellor’s Equity and Diversity Awards will be presented during UQ Diversity Week, planned for May 2004.

The prestigious awards, worth $5000 for an individual and $10,000 for an organisational unit, are designed to reward University staff or students who make a significant contribution to improving the work and study environment at the University.

The University’s strategic plan states that a key operational priority is to “promote equality of opportunity through a pro-active equity and diversity program”.

The awards, which will support this aim, enable significant recognition to programs, initiatives or strategies that advance the University’s capacity to provide a work and study environment appreciating and valuing the contributions of UQ staff and students.

“It’s important that people get involved now in order to be considered for these worthwhile awards,” said Equity Office Director Ann Stewart.

“I would like people to understand they don’t necessarily have to do anything on top of their current workload.

Rather, they could look at what they currently do and see if there are ways this can be modified, improved or enhanced to advance the University’s equity and diversity objectives.”

From left: PAH Foundation Chief Executive Officer Leighton Wood, Dr Beamish, Mr Jackson and CICR’s Associate Professor Ranjeny Thomas

Footy stars kick in for cancer

A donation to the University from a group of rugby league greats will contribute to the fight against cancer.

UQ cancer research has been given a major kick-along by a group of former State of Origin rugby league players.

The Former Origin Greats (FOGS) donated $35,000 to UQ’s Centre for Immunology and Cancer Research (CICR) at the Princess Alexandra Hospital (PAH) on July 15.

“The money will be used to purchase Brisbane’s first solar ultraviolet light irradiator, which will allow us to simulate the effects of sunlight on skin and greatly enhance research into melanomas,” said Head of the CICR’s Cell Cycle Group Dr Brian Gabrielli.

“We are very grateful for the funding. Melanoma and skin cancer in general is a major health problem in Queensland and the more we understand about how the ultraviolet component of sunlight effects the skin, the better we will be able to prevent and treat skin cancer in the future,” Dr Gabrielli said.

We are leading the world in this field by examining the normal role of these genes in their protective response to low doses of ultraviolet radiation so we can understand how mutations of the genes contribute to melanoma.”

New equity and diversity awards

The inaugural Vice-Chancellor’s Equity and Diversity Awards will be presented during UQ Diversity Week, planned for May 2004.

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Rather, they could look at what they currently do and see if there are ways this can be modified, improved or enhanced to advance the University’s equity and diversity objectives.”

The best papers, best posters and best sites will be announced at the end of the week.

UQ retains games title

UQ narrowly defeated Queensland University of Technology (QUT) to defend its title as Northern University Games champions in Brisbane last month.

The University, which co-hosted the 2003 games with Griffith University, swept to victory with a strong team boasting more than 300 student athletes.

UQ claimed 12 of the 16 gold medals to win the overall championship by 32 points.

Nearly 1200 degrees were conferred at three UQ graduation ceremonies held at the St Lucia campus last month.

There were smiles aplenty among students at graduation ceremonies held at the UQ Centre on July 21 and 23.

Guest speaker for the July 21 ceremony for Faculties of Arts and Social and Behavioural Sciences graduands was respected advisor on children’s television, Dina Browne AO.

Ms Browne’s speech to graduands focused on whether entrenched inequality, greed and racism were “too big” to tackle because they were the products of “human nature”.

“The huge changes in society mean new goals, different rules and extended boundaries for young people – the major challenge is to balance the practical with the ideal and that takes special courage,” she said.

Student valedictorian for the ceremony was Bachelor of Education graduand Ellena Papas.

Other graduands included UQ Union President for 2000 Sarah McBratney, who graduated with a Bachelor of Arts majoring in political science and German language.

Ms McBratney will continue studying towards her law degree and hopes to pursue a career in international law.

Sharyn Johnson graduated with a Bachelor of Behavioural Studies after enrolling at the Bremer TAFE to gain entry qualification to university five years ago having left school in Year 10 in 1978.

Her outstanding Grade Point Average (GPA) has seen her gain membership into the internationally recognised Golden Key National Honour Society.

Dedicated to excellence and service, membership is by invitation only and is extended to students in the top 15 percent of their field of study.

Ms Johnson currently works as a full-time counsellor at a correctional centre and hopes to continue her studies with an honours year in 2004.

Dr Marta Sinclair was one of 400 graduands who attended the 3pm ceremony for the Faculty of Business, Economics and Law (BEL) on July 23.

Dr Sinclair received a PhD for her internationally-recognised research into decision-making.

With more than 20 years of management experience in a number of industries, including Silicon Valley in the United States, Dr Sinclair’s research interest developed after witnessing decision-making in high-pressure work environments.

Her research found that better quality decisions require both analysis and intuition, and that people can develop the ability to switch between decision-making styles by learning how to manipulate their emotions.

Guest speaker at the ceremony was Haydon Coles, Head of Corporate Banking (Queensland) for the Commonwealth Bank of Australia.

He addressed students on the changes that have taken place in the finance sector and the challenge graduates faced to continue pushing for appropriate changes, with part-
icular consideration to environmental issues.

Before the ceremony, Mr Coles presented a cheque to the BEL Faculty towards a Chair in banking and finance.

The student valedictorian was Bachelor of Business Management (first-class honours) graduand Megan Axelsen, who plans to continue studying towards a PhD.

The 6pm ceremony on July 23 was for graduands of the Faculties of Biological and Chemical Sciences; Engineering, Physical Sciences and Architecture; Health Sciences; and Natural Resources, Agriculture and Veterinary Science.

Dr Alex Pudmenzky received a PhD for his research showing that creativity was part of an optimised search strategy used by molecules, individual organisms or populations of organisms.

Dylan Radcliffe received one of 20 University Medals presented at the ceremony.

He also received a UQ Alumni Association Graduate of the Year Award for achieving a GPA of seven for his Bachelor of Engineering.

Guest speaker at the 6pm ceremony was Chair of the Queensland Biotechnology Advisory Council Emeritus Professor Peter Andrews, who addressed graduates on the opportunities for building knowledge-based industries in Queensland, particularly in biotechnology.

Professor Andrews was formerly Co-Director of UQ’s Institute for Molecular Bioscience and CEO of its commercialisation arm, IMBcom Pty Ltd.

The student valedictorian was Bachelor of Engineering (first-class honours) student Matthew Gregora.

The huge changes in society mean new goals, different rules and extended boundaries for young people...
Hittites hit film

by Andrew Dunne

A UQ academic has made a significant contribution to a documentary filmed in Turkey recently.

In ancient history circles the Hittites have long been considered the obscure cousins to the more famous civilisations of the Egyptians, Greeks and Romans.

But a new international documentary is hoping to change all that and right in the thick of things is a UQ academic who has dedicated most of his life to discovering more about these fascinating ancient people.

Professor Trevor Bryce from UQ's School of History, Philosophy, Religion and Classics was one of the advisors on The Hittites, a documentary covering the history of the Hittite civilisation told through various stories of rulers and their people.

The Hittite civilisation arose in Turkey about 1700 BC and lasted about 500 years before totally collapsing only leaving some small kingdoms and population groups scattered in Palestine and Syria.

The Hittites were once the superpower of the Near Eastern world, surpassing the might of Egypt and Assyria and becoming highly skilled international diplomats. They also established a code of laws that influenced biblical law and were also a bridge between the east and the west, much like modern Turkey.

Professor Bryce, a renowned expert on Hittites and author of a number of publications on the subject, said it was through his writings that the film's director made contact and asked him to work on the documentary.

The invitation meant travelling to the film's location in Turkey for two weeks last year.

Professor Bryce was both a consultant and interviewee on camera.

"It's not a straight documentary. There are many recreation scenes such as a major battle between the Hittites and the Egyptians along with scenes from everyday life," Professor Bryce said.

"It was great to see aspects of my work brought to life, particularly the prominence given to the most famous of the Hittite queens whom I discuss at some length in my book.

"They had Turkey's leading actress play her so I got the chance to see my research brought to life."

The film recently premiered in Los Angeles and Istanbul and the director is hoping for an Australian showing later this year.

Professor Bryce will be kept busy in the meantime publishing another book entitled Letters of the Great Kings of the Ancient Near East, due out in September.
A photographic exhibition of an historic railway yard is currently on show in Ipswich.

A unique industrial heritage exhibition is the result of an interdisciplinary project involving UQ staff.

Industrial Cycle: Photographs of the North Ipswich Railway Workshops is on display from August 16 to October 19 daily from 9.30am–5pm at the Workshops Rail Museum, North Street, North Ipswich.

It comprises 70 photographs by University Art Museum exhibitions officer Peter Liddy and urban documentary photographer Richard Stringer, as well as 10 historical photographs from Queensland Rail’s archive.

“The North Ipswich Railway Workshops offer a unique insight into Queensland’s industrial heritage, having experienced the cycle of development, transition and decline,” said Mr Liddy.

The exhibition is accompanied by a major publication of the same name featuring essays on the photographs, heritage and architecture of the site. Contributors include UQ Centre for Applied History and Heritage Studies Director Dr Geoff Ginn, UQ School of Geography, Planning and Architecture associate lecturer Douglas Neale, UQ PhD student Ihor Holubizky and Queensland Rail heritage projects officer Greg Hallam.

The exhibition will be opened by UQ’s Faculty of Engineering, Physical Sciences and Architecture Executive Dean Professor Michael Keniger at 2pm on August 16 at the Workshops Rail Museum.

“The documentary photographs provide two visions of the same evocative site and represent a form of urban archaeology,” Mr Liddy said.

In conjunction with the publication, these form a major contribution to the site’s historical archive of the site.”

Mr Liddy’s exterior shots show the structure and accumulative architecture of the workshops’ buildings, while others reveal patterns by focusing on piles or repetitions of things, such as a pick-axe heads and sawtooth skylight roof patterns.

Several photographs show traces of the work and people of the past – such as a wall with workers’ handprints and rolls of wire in the blacksmith’s area.

A trained architect, Mr Stringer said he preferred abandoned sites because of the potential for an archaeological foray sifting through the site selecting and recording artefacts.

Mr Stringer said his photographs of the workshops’ interior, exterior and transitional spaces showed less evidence of abandonment and had a crisp resolution or “matter-of-factness” as if they had been taken at the end of an ordinary working day.

“Because of the development of the site over time, my photographs reveal juxtapositions of vintage pictorial elements with contemporary elements, such as a shot of a ‘parked’ locomotive, which looks like a museum diorama,” Mr Stringer said.

“The project is a fine example of a creative and challenging approach to the interpretation of industrial heritage,” Dr Ginn said.

“ ITS highly-visual qualities and focus on the links between the human history of the site and its more abstract heritage values is sure to appeal to a wide audience.”

The workshops were commissioned in the mid-1860s. Within decades, the site on the banks of the Bremer River boasted the colony’s largest locomotive depot, assembling and refurbishing the locomotives, carriages and wagons that worked their way around the expanding colonial rail network.

Its subsequent history was one of periods of expansion, changes in function, and a rapid decommissioning since 1995.

At its height, it employed a workforce of around 3000 people in up to 130 trades.

The publication was supported by an Arts Queensland grant.

Entry to the museum costs $12.50 (adults), $6.50 (children more than four years old) or $36 (families with two adults and four children).
Two young researchers have jointly won the Amgen Australia prize for the best honours students at UQ’s Institute for Molecular Bioscience (IMB).

Kate Palethorpe and Falak Helwani were rewarded for their research into Growth Hormone (GH) receptors and cadherin molecules respectively.

Ms Helwani said her project, entititled A role for cortactin in cadherin-directed actin assembly, investigated the role a protein called cortactin played in cell-to-cell adhesion.

“I discovered that cortactin is part of a large molecular ‘anchor’ inside cells that connects to cadherin, the cellular glue that helps cells stick together,” Ms Helwani said.

IMB Group Leader Professor Alpha Yap said that fully understanding the role of cadherin had implications in understanding normal development and tumour progression.

“In the absence of functioning cadherin, cells don’t recognise one another properly and we believe the spread of tumour cells is caused by cells breaking away from the tumour as a result of a lack of cadherin,” Professor Yap said.

Ms Helwani’s work was the subject of a mini-symposium talk at the prestigious American Society for Cell Biology meeting last December.

Ms Palethorpe’s work has overturned current theories relating to the action of GH in the body.

“Since GH plays a critical role in controlling growth after birth, and regulates metabolism, it is important we understand how it functions in the body,” Project supervisor IMB’s Professor Mike Waters said Ms Palethorpe’s work overturned the accepted wisdom that GH activated its receptors by bringing them together.

“This work will have enormous implications in drug design and small molecule synthesis to combat many growth disorders,” Professor Waters said.

IMB Director Professor John Mattick said the Institute was extremely grateful for Amgen’s continued support and involvement.

The Amgen Prize for academic excellence, valued at $500, is awarded each year to the IMB honours student graduating at the top of the class.

Ms Helwani and Ms Palethorpe graduated with first-class honours after completing their Bachelors of Science in physiology and pharmacology.
**Look at bigger picture**

**Young artists interpreting the work of older artists is the subject of a new book.**

A collaboration between Campus Kindergarten and the University Art Museum culminated in the launch of a book in July.

*Big art small viewer: Celebrating children as artists* (Campus Kindergarten, $39.95) documents a project in which children aged between two-and-a-half and five interpreted eight adult artists’ work.

The collaboration led to a six-week exhibition of the children’s work alongside the “grown-up” artwork at the University Art Museum in August and September last year.

It was believed to be the first exhibition of its kind ever staged in Australia.

Campus Kindergarten Director Megan Gibson said the book would inspire early childhood curricula, encourage opportunities for similar collaborations and challenge parents’ thinking about young children as artists.

“It also provides art lovers with a greater insight into children’s art as a language,” Ms Gibson said.

The book features colour images of children’s and adult’s artwork from the exhibition, documentation panels of the processes behind creating the art, reflections from teachers and museum staff involved in the project and leading children’s authors’ discussions.

The “grown-up” artists selected for the project were: Melinda Harper; Rosella Namok; William Yang; Rosalie Gascoigne; Michael Nelson Jagamara and Michael Eather (one art work by these two artists); Ruth Waller; and Colin Lanceley.

Their works were chosen by Ms Gibson, University Art Museum exhibitions officer Peter Liddy and Campus Kindergarten pre-school teacher Nadine McAllister as among those most likely to appeal to the children from more than 2000 works in the University’s collection.

In 2002, the children attended workshops at the University Art Museum to view and create their own versions of the seven works, ranging from photographs to oil paintings and installations.

Using water paints, collage materials and pastels, the children completed their works at Campus Kindergarten with the aid of photographs of the Australian artworks.

“This collaborative project provided a wonderful introduction for the children to the University Art Museum and gallery environment,” said University Art Museum Director Ross Searle.

The book is available at Campus Kindergarten, located on College Road, UQ St Lucia.

☎ 07 3365 3894

**Internet presentation**

Dr Gerard Goggin from UQ’s Centre for Critical and Cultural Studies will give a presentation to Federal Parliament as part of a National Arts Research Showcase.

The August 12–13 event will be opened by Federal Minister for Communications, Information Technology and the Arts Senator Richard Alston.

Dr Goggin’s presentation, entitled *A cultural history of the Internet*, was one of only 12 proposals chosen nationally.

The two-day event is designed to showcase arts and humanities research to parliamentarians, policymakers and national media.

**Short story contest**

*UQ Vanguard*, a publishing initiative run by UQ students, is holding the second annual LiterARTure Award.

Short stories, between 3000 and 5000 words, can be submitted with an illustration. First prize is $3500 plus publication of the top five stories in a special *UQ Vanguard* edition.

An additional $500 will be awarded for the entry that best reflects the relationship between word and image.

Entries close September 1.

Information: www.emsah.uq.edu.au/uqvanguard

**Hydrogen workshop**

The revenue potential of hydrogen-based energy and the latest developments in hydrogen research will be the focus of a workshop at Customs House on August 28.

*Hydrogen opportunities for clean energy delivery*, organised by UQ’s Nanomaterials Centre Associate Director Dr Joe da Costa, will bring together speakers from government, industry and academia.

Information: 07 3366 1407, www.qld.ieaust.org.au

**Campus Kindergarten pupils Elias and Lucy looking at the art book with Ms McAllister**

Some of the children’s artwork on display last year.
brief

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Vale Dot Sandars

Distinguished UQ academic Dorothea (Dot) Fanny Sandars passed away recently.

Dr Sandars joined the University in 1946 as an assistant lecturer in zoology and later held senior lectureships in the then departments of parasitology, medicine and pathology.

From 1971 until her retirement in 1981 she was sub-Dean of the then Faculty of Science.

She served on three University Senates during the 1970s and 1980s and was a champion and leader of many causes.

She was vigilant about University interests, and particularly the plight of University women.

She was granted an honorary doctorate in 1995 for her extraordinary work and commitment to the University over almost 50 years.

Cross-court volleys

Australian–American relations were tested when promising tennis juniors squared off at UQ recently.

The two-day inaugural Australia Cup Challenge pitted more than 70 young tennis hopefuls from both countries against each other in a round robin format at the UQ Tennis Centre.

Tournament director Ross Orford said the event provided developing players aged 11–18 with valuable experience.

"It was a unique opportunity for these young athletes to improve their tennis skills and come up against players from another country in a competitive arena," Mr Orford said.

The Australian team dominated all four categories winning: the boys' 11–14 year age group 146–125; the girls' 11–14 year age group 122–119; the boys' 14–18 year age group 678–300; and the girls' 14–18 year age group 457–300.

It was the only competition played by the Americans during their two-week visit to south-east Queensland.
Bullocking forward Stephen Moore has returned from the under-21 Rugby World Cup determined to help drive UQ to its first Brisbane premiership in 13 years.

The UQ Sports Scholarship holder was a key member of the Australian under-21 team that finished runner-up to New Zealand in England in June.

Mr Moore’s skilful 117kg frame is a major asset to a rejuvenated University side intent on erasing the disappointment of recent seasons.

“There is a good feeling at the club this year and we’ve got the personnel to be very competitive and win the competition,” Mr Moore said.

“It remains a huge goal for everyone involved to be able to claim the club’s first Brisbane premiership since 1990.”

The Red Heavies have benefited from a talented mix of youth and experience in 2003 with the premier rugby side boasting a host of representative players.

“There has been some good talent coming through University ranks this season and along with the experience of a few older players, it has given the team some real confidence,” Mr Moore said.

The third-year science student capped a highly-successful rise through Queensland Rugby ranks earlier this season when he re-signed with the Bank of Queensland Reds for a further two years.

Mr Moore, who was playing colts rugby union less than 12 months ago, said his debut season with the Queensland squad was invaluable for his game.

“I’m really only starting to learn the pros and cons of playing hooker at that level,” Mr Moore said.

“It was a big step up from watching the guys on television as a youngster to training and playing alongside them.”

Injuries and suspension paved the way for Mr Moore’s unexpected Super 12 call-up in 2003 after originally being pegged as fourth string hooker when the season began.

Mr Moore made a daunting Super 12 debut when he came off the bench against the powerhouse front row of the Bulls in Pretoria, South Africa.

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“My heart was in my mouth when I was running out on the field, but you soon settle down with 14 other blokes alongside you,” Mr Moore said.

Moore merrier for UQ title bid

The return of an Australian under-21 player will add sting to University rugby before the finals.

Stories, 1970–1994 and The Ivory Swing; and
> material including drafts and correspondence relating to a collaboration between Dr Turner Hospital and film maker Paul Cox, on the script for a feature film, Suicide of a Gentleman.

Fryer home to author’s works

The papers of internationally-acclaimed Australian author and recently-awarded UQ honorary doctor Janette Turner Hospital will be permanently housed in UQ’s Fryer Library.

Dr Turner Hospital is currently Professor and Distinguished Writer in Residence in the English Department at the University of South Carolina.

Her latest novel, Due Preparations for the Plague, and a collection of short stories, North of Nowhere, South of Loss, were released during her May visit to Australia when she also received her honorary doctorate.

Dr Turner Hospital first agreed to deposit her literary papers with the University Library in 1995.

Archival material relating to her writing was deposited on loan on the understanding the Library would have first purchase right for five years.

The Library purchased the manuscripts of Charades, The Last Magician and The Ivory Swing under this arrangement.

Dr Turner Hospital deposited further papers under the same arrangement in 1996 and 1997.

University Librarian Janine Schmidt was last year advised by Dr Turner Hospital that she was reconsidering the disposition of the remainder of her papers on loan to the Fryer Library.

“We were anxious to ensure that this valuable literary resource remained within Australia, and offered to purchase the 30 boxes of papers for the amount at which they had been independently valued, AUD$55,250,” Mrs Schmidt said.

The papers fill out the author’s literary oeuvre from commencement to the publication of Oyster in 1996.

They include:
> first and second drafts of Oyster;
> drafts of Borderline and The Tiger in the Tiger Pit;
> galleys for A Very Proper Death (a mystery written under the pseudonym Alex Juniper), which include handwritten comments by the author;
> material, including correspondence, reviews, cuttings relating to the above works and to Isobars (a collection of short stories), Collected...
A new software program for theatre studies developed by a UQ researcher will take centre stage at an upcoming free public lecture.

Theatres online: Using virtual reality in theatre studies research is the topic for the next UQ Centre for Critical and Cultural Studies lecture on August 14 from 5.30–6.30pm in the UQ Centre.

School of English, Media Studies and Art History Associate Professor Joanne Tompkins joined forces with staff from UQ’s Advanced Computational Modelling Centre to develop Theatres Online.

The software facilitates both the production and touring of theatre; and research on theatre space.

Theatres trialled as 3D interactive models to date include the Brisbane Powerhouse and La Boite Theatre.

By the end of this year, the new La Boite Theatre, Cairns Civic Theatre, and two Sleeman Centre venues will also be modelled.

The software provides highly accurate scale renderings of the theatres using Virtual Reality Modelling Language (VRML).

“The additional facility to place props and sets within the recognisable location of La Boite or the Powerhouse Theatre makes this software unique in theatre studies and in computer-modelling work,” Dr Tompkins said.

“The ability to import objects on to a stage and then manipulate and save the resulting design has already helped staff at La Boite Theatre.”

The lecture details how the program has helped in the production of Daniel Keene’s Half and Half, and the revival of David Williamson’s The Removalists.

Details: 07 3365 7182
**Tough medicine for doctors**

Many junior doctors feel “thrown in at the deep end” during the first years out of medical school, according to a new book.

Dr Haida Luke, a senior research officer with UQ’s School of Education and the Centre on National Research on Disability and Medical Rehabilitation, has written what is believed to be the first book examining the transition of Australian medical graduates into junior doctors.

“The first years of on-the-job medical training are filled with new workplace and medical activities,” Dr Luke said.

“Many of the clinical components for junior doctors serve as groundwork for learning how to deal with patients and illness, yet there are more social and cultural components which are not met in the four to six years of medical school.

“Junior doctors undergo intense working weeks of up to 60 hours and thus encounter a lot of stress and disillusionment towards the ‘system’.”

Her book, entitled *Medical Education and Sociology of Medical Habitus: “It’s not about the Stethoscope!”* (Kluwer Academic Publishers, Dordrecht), is based on qualitative, face-to-face interviews with junior doctors at a major Brisbane public hospital conducted at two points: the beginning of their training year; and either at the end of their first year or second year of hospital work.

Dr Luke said the book revealed how local training doctors were thrown in at the “deep end” to learn about aspects of the job such as stress management, talking to patients, and striking a balance between work and social lives.

“It also shows the vital role played by GPs, specialists, nurses and allied health workers in shaping the education and direction of young doctors,” she said.

Researchers in medical and educational social sciences whose research and teaching related to issues of professional education, management, or research in health and medical sociology would find the book useful, Dr Luke said.

“Clinicians involved in medical education will also relate to the junior doctors’ voices and find the application of sociology to a medical clinical environment constructive,” she said.

Dr Luke, who holds a Master of Educational Psychology (1994) and a PhD (2001) from UQ, said she became interested in the study area while working as a training co-ordinator of young doctors at a major Queensland hospital.
Flying start for biotech graduate

Dr Michael Bodner has become the first student to complete UQ’s Professional Doctorate of Biotechnology, resulting in a sought-after position with a global pharmaceutical company.

Dr Bodner was selected to be part of Schering-Plough’s management associate program that trains a small number of highly-talented future managers to work in the areas of finance, strategic planning and product management.

As a biotechnology student, Dr Bodner investigated the parallel bridge – a new venture strategy for the biotechnology industry designed to limit the probability of failure.

The theory is based on the principle of providing research and development, early cash flows and developing competencies and business acumen.

Dr Bodner said he was using these skills in his work at Schering-Plough in Sydney.

“This is a high-profile position with the long-range objective of developing future general managers, directors, vice-presidents and executives within the global company,” he said.

“Schering-Plough has established itself as a leader in biotechnology with strong research positions in genomics and gene therapy.”

The company has manufacturing facilities in more than 20 countries and has an annual revenue of around $17 billion.

Dr Bodner said he was working on special projects ranging from in-licensing new products, selling off old products, redesigning Schering-Plough’s website and analysing the company’s contribution to the Australian economy.

“One of the skills I learned while studying for the degree at UQ was bio-entrepreneurship, which gave me practical experience for working in the larger pharmaceutical business,” he said.
**in brief**

**Fryer Friends meet**

The newly restructured Friends of Fryer, the support group for UQ Library's Fryer Library on the St Lucia campus, will be officially launched at 6pm on August 27.

Guest speaker UQ Vice-Chancellor Professor John Hay will talk about literary reviewing.

Professor Hay will also introduce Friends of Fryer members to Kay De Jersey, a new patron of the Fryer Library.

The Fryer Library is the special collections branch of the UQ Library and is considered one of Australia's premier resources for Australian studies.

Anyone interested in attending the launch or becoming involved in Friends of Fryer activities should telephone 07 3346 9427.

**SEMINARS**

- **Friday, August 15**
  - Centre for Social Research and Communication, Interpersonal lying and lie-catchers in the face of terrorism, Associate Professor Mark Frank, Rutgers University, US (4pm, River Room, Emmanuel College).

- **School of Biomedical Sciences**
  - **The lost protein: Glutathione transferase GSTT1-I**, Dr Ricarda Thier (1pm, Room 305, Skerman Bldg).

- **School of Life Sciences**
  - **Toward a metabolic theory of ecology**, Dr Jim Brown, University of New Mexico (1pm, Room 388, Goddard Bldg).

- **Sunday, August 17**
  - **School of History, Philosophy, Religion and Classics and The Friends of Antiquity**
    - **The tomb of Meryneith at Saqqara**, Dr Maarten Raven, National Museum of Antiquities, The Netherlands (2pm, Abel Smith Lecture Theatre).

- **Tuesday, August 19**
  - **The Physics Museum**
    - **Precise length measurement**, George Dick (6pm, Room 222, Parnell Bldg).

- **Wednesday, August 20**
  - **Bright Minds**
    - **The future of our reefs**, Associate Professor Bette Willis and Professor Helene Marsh, James Cook University and UQ's Associate Professor Hon Johnstone and Professor Hugh Possingham (5pm, IMB Auditorium, Queenslands Bioscience Precinct).

- **Friday, August 22**
  - **School of Biomedical Sciences**
    - **Therapeutic role of a novel C3a receptor antagonist against models of disease in rats**, Trent Woodruff (1pm, Room 305, Skerman Bldg).

- **School of Political Science and International Studies**
  - **Friendship and strangership: The new civil society of Adam Smith**, Dr Lisa Hill, University of Adelaide (3pm, Room 537, General Purpose North Bldg).

- **School of Life Sciences**
  - **Sex differences and data quality as determinants of income from hunting**, Dr Eleanor Miller-Gulland, Imperial College London, UK (1pm, Room 388, Goddard Bldg).

- **Thursday, August 28**
  - **School of Biomedical Sciences**

- **Friday, August 29**
  - **School of Biomedical Sciences**
    - **Comparative physiology in stereovision perception**, Professor Jack Pettigrew (1pm, Room 305, Skerman Bldg).

- **School of Life Sciences**
  - **The ecology of Australasia's help forests and forest dwellers at local through biogeographic scales**, Dr Sean Connell, University of Adelaide (1pm, Room 388, Goddard Bldg).

- **Wednesday, September 3**
  - **Australasian Centre on Ageing**
    - **Staying strong for life: The role of resistance training**, Dr Dennis Taaffe (7.30am, Royal on the Park, cnr Alice and Albert Sts). Details: 07 3346 9084.

- **Friday, September 5**
  - **School of Biomedical Sciences**
    - **Molecular pathways of postsynaptic receptor clustering at synapses**, William Phillips, University of Sydney (1pm, Room 305, Skerman Bldg).

- **School of Political Science and International Studies**
  - **The universalism/relativism debate and ethics in international relations**, Dr Anne Brown (3pm, Room 388, General Purpose North Bldg).

- **Sunday, September 7**
  - **School of History, Philosophy, Religion and Classics**
    - **Ancient mosaics**, Cathy Cogill (2pm, Room 323, Michele Bldg). Cost $4.

- **Tuesday, September 9**
  - **The Physics Museum**
    - **X-ray instruments**, Colin Kennard (6pm, Room 222, Parnell Bldg).

- **Friday, September 12**
  - **School of Biomedical Sciences**
    - **Intelligent conversations: Cadherin signalling to the actin cytoskeleton**, Associate Professor Alpha Yap (1pm, Room 305, Skerman Bldg).

- **School of Political Science and International Studies**
  - **Resisting amalgamation from a position of weakness: An intimate and partial history of the saga of the several attempts to merge the ANU with Canberra CAE and end the binary system in the Australian Capital Territory**, Emeritus Professor Roger Scott (3pm, Room 537, General Purpose North Bldg)

**WANTED TO RENT**

- Visiting academic needs f/furn hse, Jan-Mar. Alan: burks@cs.york.ac.uk
- Visiting academic needs 1 bd unit close to St Lucia, Sep–Nov. Gavin: gavin_jack@hotmail.com
- Visiting academic needs 3+ bd f/furn hse, Oct–Dec. Jeff: jburgess@u.arizona.edu
- Visiting academic needs 2 bd f/furn unit near Royal Children's Hospital, Aug–Nov. Phillip: philip.patterson@chmeds.ac.nz

**FOR RENT**

- **St Lucia**: large, mod. 2 bd f/furn unit, $300/wk. Kam: 07 3870 7724
- **Cromwell College**: on campus rms, fully-catered. 07 3377 1497

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