AT THE HELM
Students study at sea
A new way to pay for your study

“PELS means I can do postgraduate study while on maternity leave. I can defer the payments until I go back to work.”

MELISSA ANDERSON is typical of hundreds of new postgraduate students at The University of Queensland.

She’s taking advantage of the fact she no longer has to pay up-front for her degree.

The new Postgraduate Education Loans Scheme (PELS) has made it possible for Melissa to undertake a Graduate Certificate in Management while she’s on maternity leave.

Melissa has an undergraduate business background and she’s doing further study to help develop the skills she needs to be competitive in an international workforce.

Postgraduate study is invaluable in helping people to change and enhance their careers and because PELS eliminates the burden of up-front payments, the opportunity could now be available to you.

PELS is an interest-free loan facility for eligible, fee paying, postgraduate students undertaking non-research programs. This means that if you are an eligible student intending to start or continue a Graduate Certificate, Graduate Diploma, Coursework Masters or Professional Doctorate you may not be liable for up-front payments. Fee payments are deferred, similar to HECS.

For further information and to check your eligibility phone (07) 3365 2622, email pels04@uq.edu.au or visit www.studyatuq.net
This is the third year in which the University has held a Careers Fair and this year’s event on Wednesday, April 10 was again a success, with more than 5200 students taking up the opportunity to meet face-to-face with leading employers and recruiting agencies (see story page 7).

The University of Queensland takes great pride in the success of its graduates, and the Careers Fair is an important service for students who wish to explore career options.

The University also recently launched its annual fund-raising event, the Chancellor’s Fund Appeal 2002 (see story page 15). The Appeal is a wonderful opportunity for community members, alumni and staff to help The University of Queensland maintain and develop its world-class standing, and I thank those who have generously supported UQ in the past.

Professor John Hay
Vice-Chancellor
Amphetamine use rises

by Peter McCutcheon

A heroin drought in Queensland is driving drug-users towards experimenting with different and equally dangerous alternatives.

Drug survey figures show a continued increase in amphetamine-use in Queensland among injecting drug-takers, possibly leading to an increase in violent crime.

The Queensland section of the national survey, carried out by the Queensland Drug and Alcohol Education Centre (QADREC) at The University of Queensland, also shows a “heroin drought” occurred in Queensland during the year of 2001.

The survey of the last six months of 2001 finds the increased use of a crystalline methamphetamine – known popularly as “base”, “ice” or “shabu” – was associated with increases in violent crime and property crime in Queensland.

“Accident and emergency departments reported increases in those presenting with methamphetamine-related problems, ranging from paranoia, anxiety, depression, psychotic breakdown and violent behaviour,” said QADREC researcher Gabrielle Rose.

The survey of 101 injecting drug-users and 50 key informants who had frequent contact with illegal drug-users is part of an ongoing national Illicit Drug Reporting System (IDRS).

Ms Raylu and Professor Oei last year conducted a review of literature on the treatments available for problem gambling and found CBT to be the most effective.

Ms Raylu said the CBT program was significant because understanding the best treatment approaches to gambling would help standardise treatment programs for those experiencing problems in Australia and overseas.

She said the liberalisation of gambling laws had resulted in Australians being recognised as the heaviest gamblers in the world.

Ms Raylu said the CBT therapy program would provide volunteers with information, skills and strategies to help them understand and change dysfunctional gambling behaviours and associated issues.

Participation in the program is free and those involved can withdraw at any time.

It involves 12 sessions, twice a week for six weeks, delivered by experienced clinicians.

Volunteers will be asked to complete a confidential questionnaire at the beginning of the program, and again at three, six and 12 month intervals after its completion.

Psychologists study problem gambling

UQ psychologists need more than 200 volunteers for a therapy program designed to more thoroughly test research on the benefits of Cognitive Behavioural Treatments (CBT) for problem gamblers.

Namrata Raylu and Professor Tian Oei from the UQ School of Psychology are heading a group offering the free six-week program to gamblers.

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A new marine science course combining the adventure of sailing through the Coral Sea with a hands-on research experience will be offered in August by the Centre for Marine Studies at The University of Queensland.

College at Sea will take 20 students and five staff members for a two-week journey on the STS South Passage, a 100-foot, gaff-rigged schooner, to investigate the marine ecosystem of the Great Barrier Reef from Townsville to Heron Island.

The course will expand next year to provide a full-semester course in marine ecology and oceanography using all three University of Queensland marine research stations (Moreton Bay Research Station, Heron Island Research Station and Low Isles Research Station). Credit for this course will be available through either the Centre for Marine Studies at UQ or the University for Maryland, United States, to encourage overseas student participation.

College at Sea Director Dr James Udy said that as well as the academic benefits, students would learn how to sail and navigate a tall ship through the Great Barrier Reef and down the Queensland coast.

Subjects to be studied include tropical marine ecosystems, oceanography, nutrient dynamics, remote-sensing and marine navigation.

“These subjects will provide the students with the theory and practical experience to plan and undertake a personal research topic on one aspect of marine ecology or remote-sensing, which will enhance their understanding of the marine environment,” Dr Udy said.

“While at sea, students will collect water and sediment samples for nutrient, plankton and benthic algal analysis to look at coastal run-off impacts on reef ecosystems.

“When the students return to St Lucia they will analyse samples and prepare scientific reports and presentations on their findings, which will be presented at the end of August.” Dr Udy said he hoped many UQ staff members and students would attend the seminars.

Dr Udy said teamwork among students was an important part of the experience.

“The ability to work as a member of a team is constantly enhanced through both the academic projects and the social activities,” he said.

“Students will be expected to delegate responsibilities between group members to share the workload in an equitable manner and learn from each other.”

All students will receive snorkelling instruction to enhance their appreciation of the marine ecosystems. However, scuba-diving will not be required to complete the course.

Dr Udy has recently returned from a trip to the US promoting the course at top universities. He received strong support for the course from academic staff at many universities, including Harvard University, George Washington University, the University of California and Claremont Colleges. Discussions with these and other overseas universities will continue to ensure overseas students are able to transfer College at Sea credit back to their home institutions.

It is hard to imagine a better way for UQ students to conduct hands-on marine ecosystem research than sailing a 100-foot schooner through the diverse and fascinating Great Barrier Reef.
At 21, international marketing officer Cecile McGuire travelled from Canada to Australia on a working holiday, returning a few years later to study and then work at The University of Queensland.

Buziwomen launch
An Australian website recognising the increasing participation of women in business and industry was launched by UQ Vice-Chancellor Professor John Hay on Tuesday, April 9. The launch of Buziwomen.com was also attended by Queensland Premier Peter Beattie.

Buziwomen marketing executives and UQ students, Barbara McKay and MaviAnne Glinoga, said the site closed the gap between university and the professional world by hosting skill-development workshops and offering information covering immigration, sponsored employment and work experience.

It also provides information on conducting business and travelling overseas as well as cultural advice for specific countries, video interviews with experienced business women, translations and online language tutorials, safety tips and a global network of contacts.

Musical night
The Ignatians Musical Society's production of Kismet: A Musical Arabian Night, will be at UQ's Schonell Theatre from Thursday, April 25 to Saturday, May 11.

The 50-strong, all-Brisbane cast features three UQ students.

The lead romantic female role is being played by first-year music student, Sarah Punch.

Her understudy is third-year arts/law student, Therese Halpin. Second-year journalism student Romony Rogers sings the opening solo.

Set in 11th century Baghdad, Kismet is the tale of Hajj, a fraudulent magician.

UQ students who arrive five minutes before curtain will be admitted for $8, except for opening and closing nights.

Tickets cost $10 to $20 and are available by telephoning (07) 3871 1301.
Thousands of students took the opportunity to explore their career and employment options at the UQ Careers Fair 2002 in Mayne Hall, St Lucia, on Wednesday, April 10.

More than 5200 students discussed graduate employment opportunities with 66 private industry and government organisations.

Dean of Students Dr Lisa Gaffney said this year’s fair had been an outstanding success, not only in terms of attendance but also in the feedback received from students and employers.

“We received many excellent and positive comments, particularly from employers emphasising the quality of our students,” she said.

Dr Gaffney said it was not too late for students who were unable to attend to take advantage of the event and explore their career options.

“More than 15,000 visits to the Careers Fair website have been recorded and students can still find details of the attending organisations including employment requirements by visiting the website.”
Capacity to end racism available

The damage caused by racism crosses all cultures, according to a UQ graduate.

A UQ centre which aims to develop a more diverse working, learning and research engineering culture has won the 2002 UQ Affirmative Action Recognition Award.

Professor David Radcliffe and Caroline Crosthwaite of the School of Engineering received the award for the CATALYST Centre.

The centre is increasing the number of women participating in engineering through the Undergraduate Site Learning Program (USLP).

The Women and the Law Society was highly commended. Certificates of commendation went to Denise Frost for the (LITLO) Program and the NRAVS Equity committee.

Special recognition awards went to Nicky Milsom and Pauline Williams for outstanding contribution as mentors for women through the Career Horizons and Women in Leadership Mentoring programs.

A Director of the National Indigenous Leadership Centre believes it is possible to end racism in Australia this century.

“We have the intelligence to develop good policies to bring this about and we certainly have the resources,” Kerrie Tim said at a celebration breakfast and presentation of the Affirmative Action Recognition Award at the UQ Staff and Graduates Club last month.

Ms Tim, a UQ graduate, said it was important for people to understand the damage caused by racism and to create opportunities for those affected to tell their life stories.

“As we do this, we will think better about ourselves and others and we will find we are able to act even more boldly to bring about an ever better world for those who follow us,” she said.

Ms Tim, who is on sabbatical leave, was the Acting Executive Director, Office of Women, Department of the Premier and Cabinet, and Executive Director, Department of Aboriginal and Torres Strait Islander Policy, Queensland.

Ms Tim said an important lesson she had learned, and where many people were now focusing their efforts, was towards recovering from the emotional damage caused by racism.

“If this work isn’t done, there is a risk we will slowly but surely begin to lay the foundations for re-building the institutions of racism,” she said.

“No-one escapes the damage caused by racism. Neither us mob or other blacks or people of colour.

“As much as individual whitefellas benefit from having more rights and better material lives than those of us targeted by racism, their lives and minds are corrupted by racism.”

She said the daily “wear and tear” of subtle racism on indigenous people – such as being ignored when trying to get service, being followed in shops, police-harassment and being assumed to be troublemakers – was just as damaging as overt racism and kept institutionalised racism in place.

The Centre for Academic Development and Research (KCEDAR) is increasing the number of women working, learning and researching engineering through the Undergraduate Site Learning Program (USLP), the Women and the Law Society was highly commended.

Special recognition awards went to Nicky Milsom and Pauline Williams for outstanding contribution as mentors for women through the Career Horizons and Women in Leadership Mentoring programs.
Starved for knowledge

by Carrie Cox

Freezing fish and fasting frogs could unlock the secrets to surviving human starvation.

The paradox for human survivors of prolonged starvation is that the big hearty meal they have longed for could actually kill them.

As UQ PhD student Rebecca Cramp explained: “The body simply can’t process a normal portion and the broad-ranging physical effects are often lethal.”

Now, thanks to a pioneering study that has seen her chasing frogs through the outback and fishing in ice-cold Antarctica, Ms Cramp is moving closer to both an understanding of the physiology of starvation and a solution to the challenges of re-feeding.

“Most of the existing research in this area has been done on laboratory rats, which are obviously not adapted to starvation conditions,” Ms Cramp said.

“This represents one of the first studies of its kind to look at species that have adapted.

“Primarily, I set out to study the behaviour of an Australian Burrowing Frog, which can effectively live underground with no food for 12–18 months at a time and then come out and eat a huge meal with no apparent effects.

“More recently, after fostering relations with Canterbury University in New Zealand, I’ve been studying in parallel the survival of fish in Antarctica who exist through winter periods without any sustenance.

“It’s essentially brand new research and it is very exciting. Starvation is such a broad and little-understood phenomenon, so potentially we could uncover some important implications for human survival and behaviour.”

Among those implications could be an answer to the traumatic plight of re-feeding Third World populations after extended periods of starvation.

“Ethiopian survivors of starvation can endure horrific and often fatal effects of re-feeding after starvation – including massive diarrhoea and gastric ulcers,” Ms Cramp said.

“Science still understands very little about why that occurs and what can be done about it.”

Accompanied by her supervisor, Associate Professor Dr Craig Franklin, Ms Cramp stayed about four weeks in freezing Antarctica late last year, much of which was spent huddling around a tiny fishing hole in the ice.

“The Borch species of fish lives at -2 degrees,” explained Dr Franklin, “so it’s a fairly cold fishing trip.”

“In the end we took about 20 to 30 fish for the study, although sometimes you had to wait quite a while before the next school swam by.

“Ideally, Rebecca will be able to return this year in order to study their habits during winter.”

Ms Cramp, who has already attracted interest from Swedish researchers studying the effects of starvation on human intestinal neurotransmitters, is due to complete her thesis in September.

(07) 3365 1391 or (07) 3365 2355

Dr Franklin and Ms Cramp near the IMAX crevasse at the foot of Mt Erebus. PHOTOS: courtesy of Dr Franklin

The Green-Striped Burrowing Frog Cyclorana alboguttata

A Green-Striped Burrowing Frog in a cocoon formed to prevent dehydration

A Green-Striped Burrowing Frog eases its hunger.
Bear loses sore head

by Jan King

Practising dentistry on a polar bear or performing eye surgery on a lion makes life even more interesting for veterinarians and anaesthetists.

There are probably few things worse than a bear with a sore head, but that was the case recently when Ping Ping, a 400kg polar bear at Sea World on Queensland’s Gold Coast needed dental work.

Sea World invited UQ veterinary anaesthetist Helen Keates to assist in providing general anaesthesia for the dental work.

Also involved were Sea World veterinarian David Blyde and consultant dentist to the UQ School of Veterinary Science, Dr Gary Wilson.

Ping Ping needed root-canal surgery and fortunately was in the hands of a most experienced veterinary team.

“‘The patient was darted with a tranquilliser before his trachea was intubated for connection to the anaesthetic machine,” Ms Keates said.

“He was a model patient, and was on his feet shortly after the procedure was completed’”

Ms Keates has assisted in operations involving unusual creatures great and small, including lions, tigers and snakes.

Photographs from these operations enliven her lectures to students. Recently she was contacted by the owners of a Queensland zoo to anaesthetise Robbie, a five-month-old lion cub, for eye surgery.

“He was very playful and great fun,” Ms Keates said.

“He weighed 30kg and entered Dr Richard Smith’s veterinary surgery on a leash. Dr Smith is a veterinary ophthalmologist and lectures to UQ veterinary science students.”

Robbie was anaesthetised for three hours while he had cataracts in both eyes treated. His owners have reported that his behaviour indicates his sight is much-improved.

Ms Keates said anaesthetic management of exotic animal species involved using basic veterinary principles then seeking out further information on the particular species. Veterinarians need to be clinically capable of treating all animal species.

Ping Ping has not been her heaviest patient. That honour belongs to horses weighing more than 600kg while cattle often exceed 500kg.

“The biggest problems are usually logistical – how to move very heavy animals while they’re asleep,” she said. “It often needs a system of winches and pulleys.”

Ms Keates is one of only two academic anaesthetists in veterinary schools in Australia.

A UQ veterinary science honours graduate (1981), she teaches undergraduate students, supervises postgraduates, provides specialist care in the University’s Veterinary Teaching Hospital and has submitted her PhD in the use of morphine in dogs. Her research projects include evaluating the use of a new anaesthetic in pigs.

Her interest in veterinary anaesthesia evolved from unlikely beginnings. “When I was a student I couldn’t face doing anaesthesia so to overcome my fear I wrote my final-year essay on the subject,” she said.

“It was like being drawn to the edge of a cliff. Now it has become my passion.”

Ms Keates cares for Ping Ping the polar bear during his operation. PHOTO: courtesy of Sea World

World Health Day

When the World Health Organisation (WHO) in Geneva deems it is time to get moving, then the rest of the world should begin to listen. UQ’s Professor of Human Movement Studies Wendy Brown said the fact that WHO designated physical inactivity as the focus of this year’s World Health Day on Sunday, April 7 means the whole world should start to take the issue seriously.

Professor Brown said the health burden of physical inactivity and obesity was at least 10 times more than that of illicit drug-use.

She is one of the authors of a new book Getting Australia Active which was developed by the National Public Health Partnership group to promote the value of physical activity.

It was launched in UQ’s Great Court on World Health Day by partnership Chair and Queensland Director of Public Health Dr John Scott.

Imaging contract

UQ’s Centre for Magnetic Resonance has beaten international competitors to win a $1 million contract to develop magnetic resonance imaging monitoring equipment for one of the world’s leading manufacturers. The deal with Bruker Biospin MRI in Germany will see the Brisbane-based Centre supplying a minimum 20 units of the system – named BioTrig – per year, initially for three years.

The project confirms UQ’s international leadership role in the production of medical technology equipment. The CMR is responsible for technologies incorporated in 70 percent of recently installed MRI systems produced in the $3 billion-a-year international market. The new system was conceived and developed by CMR researchers and engineers and is entering the production phase.
Tapping into a golden vein

by Rowan Foster

Commerce student and national water polo representative Toby Jenkins has high expectations for the new-look Australian team.

Toby Jenkins is leading a UQ assault on Australian water polo ranks following silver medal success at the Commonwealth Water Polo Championships in Manchester, England.

The final-year commerce student spearheads a group of current UQ students representing Australia including brother Morgan (under-20 representative), Robert Maitland (under-21) and women’s squad members Amy Hetzel and Rebecca Witham.

A strong performance at the inaugural Commonwealth Championships cemented Mr Jenkins’ position in a new look Australian side containing only three members from the 2000 Olympic team.

Mr Jenkins, a Queensland Academy of Sport and UQ SPORT scholarship holder, said the last minute 6–5 defeat by Canada in the Commonwealth final had given the young Australian side a burning motivation to match it with the world’s best in coming years.

“The gold medal loss was disappointing, but I know the team is determined to build on the performance and be among the top nations in the sport,” Mr Jenkins said.

He said the Commonwealth experience, which included a pre-games training camp with water polo heavyweights Germany, was proof the Australian side had the potential to compete at the highest level.

“We are a young team so over the next few years I think the motivation and skill in the Australian side will make us a strong competitor on the international stage.”

Mr Jenkins has made a whirlwind transition from junior ranks to the national team.

“Being part of the national team over the past two years has been a huge learning process, which means I am constantly trying to improve my game.”

At 22 he already has a list of achievements to rival a veteran, including World University Games, Commonwealth and World Championship selection.

A stellar year captaining the Brisbane Barracudas in the National Water Polo League points towards a key role for Mr Jenkins in Australia’s 2004 Olympic campaign in Athens.

For now he is balancing the delicate pressures of final-year study and national sporting commitments with a tour of Italy, Hungary and Germany leaving in June.

“I’ve become used to coping with the demands of University and water polo with good support from family and friends and UQ through the sports scholarship program.

“Certainly beyond this year I would like to consider playing in one of the European leagues.

“That would provide me with a good opportunity to start a professional career.”

Australian women’s representatives Ms Hetzel and Ms Witham leave in May as part of the powerhouse team on a tour of Russia, Hungary, and the United States.

Tick

by Brad Turner

The eradication of tick-borne diseases is essential for the reconstruction of a Mozambique cattle industry shattered by the effects of a long civil war and devastating floods.
UQ researchers are helping restore the Mozambique cattle industry decimated by civil war and severe floods.

Efforts to re-establish the industry have been hampered because up to half the imported cattle have died within a year from tick-borne diseases.

Dipping programs for cattle ticks have failed for reasons including the destruction of dip-tanks during the war and the shortage of both water and experienced dip-tank attendants.

The University’s involvement was triggered by the AusAID-sponsored enrolment of Mozambican student Alberto Nota Alfredo whose Master of Philosophy on the control of ticks and tick-borne diseases in livestock is being supervised by Dr Nick Jonsson from the School of Veterinary Science.

With funding from UQ, the Crawford Fund, VetAid and the Direccao Nacional de Pecuaria (DINAP), Dr Jonsson and Mr Alfredo visited Mozambique in February to conduct training courses on ticks and tick-borne diseases.

Dr Jonsson said 38 people, mostly veterinarians and veterinary technicians, attended the two-day courses held in Bilene and Tete provinces.

The courses included a theory session, a visit to a dip-tank, tick-collection and identification, the taking of blood samples and a laboratory examination of the samples, as well as lively discussion about government disease control policies.

“The theory sessions provided useful background information and most delegates had little experience with the collection of suitable diagnostic samples for tick-borne disease diagnosis,” Dr Jonsson said.

As well as helping return cattle production in Mozambique to pre-war levels, the research into diseases such as babesiosis, anaplasmosis, cowdriosis and theileriosis will also benefit the Australian cattle industry, Dr Jonsson said.

He said the Tick Fever Research Centre in Brisbane and the CSIRO were already involved in developing vaccines against ticks which spread some of these diseases.

“Some problems are shared with Australia and insights into factors limiting tick control in Mozambique will also prove to be very useful for researchers and cattle producers here.”

“There is a strong interest in the genetic diversity of tick vaccine-binding sites and Anaplasma marginale.

“Of the many tick species affecting cattle in southern Africa, those most likely to develop resistance to acaricides are from the genus Boophilus.

“Resistance to existing chemical acaricides in this genus is very common in Australia, Central and South America and in South Africa.”

Dr Jonsson said the next stage of the project, which started in February and continues until July, would involve surveys, field-work and sample-collection, supervised by Mr Alfredo.

Serology will be carried out in the Edouardo Mondlane University Veterinary Faculty at Maputo and acaricide resistance tests in the Government Veterinary Laboratories of DINAP in Tete.

DNA extracts will be analysed in the UQ Veterinary Blood Grouping Laboratories, the Animal Research Laboratory at Pinjarra Hills and the Animal Research Institute of the Queensland Department of Primary Industries.
Ipswich scholarships

More than $55,000 was awarded to meritorious UQ Ipswich students this month at the annual Scholarship and Prizes Award Ceremony. Supported by the Friends of UQ Ipswich, the Tuesday, April 16 event showcased the academic aptitude of UQ Ipswich students.

At the ceremony, 32 UQ Ipswich students received from $300 to $5000 in the form of scholarships, bursaries and prizes in recognition of their academic achievements and support for further studies.

A number of new scholarships and prizes were awarded, including two scholarships through the Mick Young Trust of Australia and the Ipswich City Council Ipswich Sesqui-Centenary 2010 Local History Research Scholarship in Contemporary Studies.

Mid-year enrolments

UQ will offer a limited number of places in the Queensland Tertiary Admissions Centre (QTAC) mid-year offer round for commencement in second semester 2002. University Admissions Manager Claron Driscoll said UQ Ipswich and Gatton campuses would have the most places available for mid-year entry.

“Mid-year entry is the perfect opportunity for prospective students who were too late lodging a QTAC application for first semester, or for those whose circumstances have changed,” she said.

Ms Driscoll said while the University had experienced a continuing high level of demand for entry there were also some places available at the St Lucia campus in 2002 for suitably qualified applicants, with entry scores remaining fairly high.

Applications can be made via www.qtac.edu.au. Closing date for on-time mid-year applications is Friday, May 17, 2002.

Information: UQ Admissions, telephone (07) 3365 2203.

Fish story finale for Jack

by Jane Milburn

A one-day marine conference was a fitting way for PhD students to farewell their mentor and one of the University’s longest-serving scientists.

Microscopic marine zooplankton has been Dr Jack Greenwood’s field of research for more than 40 years so he is used to studying the small stuff.

But it was Dr Greenwood’s big-picture vision and motivation to develop marine science teaching at The University of Queensland that was an early driver behind what is now the Centre for Marine Studies.

As a tribute to his leadership in the marine science field, many of Dr Greenwood’s postgraduates presented an overview of the state of things-marine at a one-day conference coinciding with his retirement dinner earlier this month.

Dr Rob Coles from the Queensland Department of Primary Industries spoke about seagrasses and Dr Clive Jones about red claw crayfish; Dr Satoshi Mikami declared we could aquaculture Moreton Bay bugs and Dr Yongshun Xiao explained how we could better manage our fishery stocks.

All are among Dr Greenwood’s 40-plus PhD graduates that he continues to mentor and who are now, in turn, generating consultancy opportunities that enable him, and his wife and colleague Joan, to put their skills and knowledge to good effect.

Earlier in his career, when Dr Greenwood was doing his “own little thing” studying the all-important zooplankton, he wondered if it was going to mean very much in the overall scheme of things.

But the opportunity to make his mark emerged from a political need to ensure the future survival of his chosen field at UQ and Dr Greenwood’s successful lobbying for a multi-disciplinary marine science unit.

The School of Marine Science, an umbrella organisation linking 62 academics in 12 departments – such as economics, law, the sciences, anatomy and engineering – was set up in 1992 with Dr Greenwood as its Director.

An early project for the school was the redevelopment of the Dunwich Marine Laboratory as the Moreton Bay Research Station and Study Centre.

Partners in that project included the Port of Brisbane Corporation, Consolidated Rutile Limited, the Royal Queensland Yacht Squadron as well as the University itself.

The Stradbroke Island facility, which officially opened in 2000, is directed by Dr Ian Tibbetts.

It provides an important marine research facility for staff and students who are now being drawn internationally.

Professor Tibbetts said Dr Greenwood’s networking abilities, his generosity and forthright nature were the “glue” that helped cement UQ’s expertise in marine science.

It was also the start of the evolution that resulted in the foundation of the Centre for Marine Studies at the University in 1998.

Marine science is now identified as one of four priority areas in which the University is consolidating resources.

This has seen the Centre develop an international profile for teaching and discovery.

More recently, Centre Director Professor Ove Hoegh-Guldberg has been instrumental in attracting $10 million in federal funding to develop a tropical marine network, which includes a $4 million upgrade of UQ’s other marine research stations at Heron Island and Low Isle.

For Dr Greenwood in retirement, these developments and the rich recognition from a wide range of his colleagues and former students are a fine contribution to establishing and maintaining marine science as a strong force at the University.
With little more than $2500 in donations, UQ’s Life Skills Clinic is able to purchase equipment which helps children with developmental and learning difficulties and assists research in this important area.

This is just one example of how money raised from UQ’s Chancellor’s Fund Appeal 2002 can make a difference to the community.

“The Life Skills Clinic provides children with developmental and learning difficulties with regular therapy and assistance to help them participate in home and school life,” Clinic Manager Jodie Copley said.

“The funding from the 2001 appeal will be used to purchase items such as gym floor mats, children’s furniture, a small trampoline and software programs. This equipment enables us to use leading-edge forms of therapeutic techniques,” she said.

The 2002 appeal was launched by the UQ Chancellor Sir Llew Edwards AC, at Customs House on Wednesday, March 27. Sir Llew said many of the University’s recent achievements had only been possible through the ongoing generosity of corporate and private donors.

“Donors to the Chancellor’s Fund Appeal 2002 should take pride in the knowledge that their contribution has made a difference in a wide range of areas including health and scientific research, UQ Library services and the arts,” he said.

“This year, the University also has specific fundraising campaigns in the areas of brain research, the development of UQ Ipswich and scholarships for students from disadvantaged backgrounds.”

As well as raising money for the Life Skills Clinic, last year’s campaign raised funding for projects including:
- a research project into the rehabilitation of motor vehicle accident victims;
- the further development of the UQ School of Veterinary Science;
- new Library services;
- support for the UQ Law School’s moot program;
- fellowship and international student exchange programs;
- restoration of heritage buildings; and
- new computer facilities.

A chance to give something back

The concept of giving something back to an institution that has been good to you motivates many staff to donate to the Chancellor’s Fund Appeal 2002, officially launched last month.

Professor Ron Weber from the UQ Business School is a long-term donor who feels strongly about UQ as his alma mater and employer of more than two decades.

“There are various emerging needs to be met which aren’t funded by the Federal Government so I make a cash donation each year,” he said.

Scholarships for students from disadvantaged backgrounds are one such emerging need which Professor Weber and another staff donor, Reader in History Dr Kay Saunders, cite as worthy causes.

Dr Saunders is so committed to supporting young students that she has made allowance in her will to set up an annual scholarship in Australian history, worth several thousand dollars annually.

As well, Dr Saunders recently took up the option of fortnightly payroll deductions.

Faculty of Biological and Chemical Sciences executive officer Peter Lye is a regular donor who has also switched to fortnightly payroll deductions.

Development Office Director Margaret Burke said contributors could direct their funds to an area of their choice, including scholarship funds and a range of research projects.

“Other big employers such as NRMA, ANZ Bank and Coles Myer encourage staff to make donations to outside charities. At UQ, we can make a difference to our own organisation by contributing to research and scholarships,” she said.
Vetting phone system
by Mark Cusack

The Veterinary Science School is trialling the latest in wireless phone technology.

It looks like a mobile phone, it even sounds and feels like one but it is actually the latest in wireless phone technology and UQ is leading the way.

The Personal Handyphone System (PHS) has the potential to wipe out prohibitive intra-office mobile telephone bills in many organisations.

Fortunately for many of UQ’s faculties, schools and centres, the technology is now available on campus.

“The distinct advantage of this system over ‘carrier-based’ mobiles is that calls between individual handsets and campus telephones cost absolutely nothing,” said UQ’s Director of Information Technology Services, Nick Tate.

“Strategically placed cells, like miniature mobile phone towers, will pick up the signal throughout a school or faculty, automatically passing the call from cell to cell as the user moves about.

“Essentially the user gets the portability of a mobile with the cost-effectiveness of a cordless telephone,” Mr Tate said.

UQ’s School of Veterinary Science is the first to take up the revolutionary new technology. Veterinary School Head Professor Neil McMeniman said the technology had proved invaluable.

“Mobile communications are essential for students and staff in the Clinic and the handyphone system is exactly what’s required,” he said.

“We’ve been able to do away with paging devices and supply people working in the clinic with more than 20 handyphones.

“It’s light, portable, easy to use and importantly, it will save time and money.”

The PHS initiative is a cellular phone platform fully integrated into the UQ telephone system with comprehensive call-accounting capability for external calls as well as headset, voice-mail and auto-answer functionality.

The Veterinary Science School is trialling the latest in wireless phone technology.

Ankle sprain study
UQ’s Department of Physiotherapy is seeking people aged 18 to 40 with ankle sprains to participate in a new study. Project supervisor and senior lecturer Dr Bill Vicenzino said ankle sprains were common, with 60 percent of the population experiencing a sprain and 40 percent of all sprains becoming recurrent and problematic.

Dr Vicenzino said the study would evaluate ankle sprain mechanisms by comparing differences in ankle function tests such as the range of ankle motion, sensory-motor function and functional activities following ankle injury. Participants will be required to attend the department at St Lucia for one session lasting around 90 minutes.

Ethics vacancies
Vacancies for lay people and a religious member exist on two of the four ethics committees at UQ. They are volunteer positions and need to be filled by people who could represent general community standards about the content of research proposals submitted to the Ethics Committees for review.

Vacancies exist on the Dental Sciences Human Ethics Committee and the Behavioural and Social Sciences Ethics Review Committee. Professor Larry Evans, Chair of the Human Experimentation Ethical Review Committee, said lay or religious members were not expected to have formal training.

Presenters wanted
The Institute of Continuing and TESOL Education’s Community Education Section is looking for people with relevant degrees and experience to offer short courses in the Community Education Program in second semester 2002. Subject areas include: Human Society; Science and Natural Environment; The Arts; Literature and Philosophy; Effective Writing; Personal and Professional Development; Business and Finance; and Computers.

‘Think-tank’ appointee
The founder and Executive Director of the nation’s first innovation ‘think-tank’ is set to turn his attention to UQ’s own Technology and Innovation Management Centre (TIMC) as a six-month ‘Innovator in Residence’. Professor Ron Johnston, who established The Australian Centre for Innovation in 1992, said UQ’s invitation was evidence in itself of an innovative approach to change.

“By coming in as a six-month guest, I will really be able to stir the pot and generate new ideas and opportunities,” he said.

Professor Johnston will divide his time between TIMC and his own Sydney-based centre.

Telephone: (07) 3365 3922

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Telephone: (07) 3365 6739

Email: t.fiegel@icte.uq.edu.au
Emelie Watson was in the enviable position of choosing between two university scholarships offering to fund her undergraduate engineering studies during the next four years.

It was UQ she eventually chose, along with the offer of a $32,000 scholarship from the Ford Motor Company.

Ms Watson said engineering was an obvious career choice because of her interest in maths and science.

She said she hoped to put her studies to good use designing more efficient processes resulting in less waste of resources.

These interests, combined with an Overall Position (OP) 1, meant the doors were wide open for Ms Watson to pursue tertiary study after completing Year 12 at Smithfield State High School in Cairns.

She said she had read about the Ford scholarship through a newspaper’s motoring section, finding out more from her science teacher and guidance officer.

An undergraduate engineering student awarded a scholarship by the Ford Motor Company could have headed south for her degree, but chose UQ instead.

The other offer she received was a co-operative scholarship from the University of New South Wales, which she declined for a number of reasons including that she would be required to work during the holidays and be restricted to electrical engineering.

Ms Watson said she also knew more people in Brisbane because her brother was already studying engineering at UQ.

Increasing the enrolment of women in engineering is a constant project for the School of Engineering, with the percentage of females having ranged between about 18–20 percent in recent years.

UQ is one of five Australian universities chosen by Ford as a vehicle for encouraging and supporting women in engineering through scholarships. Ford sees the initiative as a positive indication of its commitment to fostering workplace diversity. Last year’s UQ winner was Jean Anderson from Gympie.

UQ NEWS, APRIL 2002

A new UQ study has found most former Challinor Centre residents in Ipswich were living better lives following deinstitutionalisation.

“The institution had an ageing population, with some people housed there for 50 or 60 years. It was the only home they had ever known,” she said. There were also residents with severe disabilities and behavioural issues.

Eventually 104 residents were relocated into houses in the community, from the Gold Coast to Cairns, some having to move more than once because of “not in my backyard” concerns by neighbours.

Some residents’ families did not want them to take up the community housing option. Forty-five residents were placed in centre-based accommodation with smaller purpose-built centres at Loganlea and Bracken Ridge. Some residents were relocated to the Basil Stafford Centre and elected to stay there.

Dr Young said some of the greatest gains had been made by people with intellectual disabilities, while some people sent there because there was nowhere else for them to go.

“The institution supported Challinor Centre move

The Challinor Centre, which housed people with intellectual disabilities, had a history dating from 1878. In December 1996, it was offered to UQ by the State Government as a potential campus site, with the Government pledging funding for capital works, site-acquisition and satisfactory relocation of Challinor residents.

The study, supervised by Professor Adrian Ashman, was funded by an Australian Research Council SPIRT grant. It traced 160 Challinor residents from August 1995 and began well before discussions between the State Government and the University.

It followed residents for five years as they were relocated into the community. With successive changes in the State Government, the project had a nine-month hiatus halfway through until it was approved to continue.

Dr Young worked closely with the Queensland Department of Families, Youth and Community Care (now Disability Services Queensland).

She said Challinor was once seen as an “institution of last resort”, with some people sent there because there was nowhere else for them to go.

Dr Young said some of the greatest gains had been made by people with severe disabilities, although it could be argued that this was the group with the most room for improvement. Conversely, some people with mild disabilities had not progressed as well as expected and this related to the type of staff support they received.

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The conference, entitled *Taking a holistic approach to security in the information economy*, will provide a rare opportunity for people to listen to some of the world’s leading experts on IT security.

Offering business, technical and tutorial streams over three days, the conference will include speakers from Asia, Canada, Europe and the US. Keynote speakers include: Art Money, former US Assistant Secretary of Defence for Command, Control, Communications and Intelligence; Eugene Spafford, Director of the Centre for Education Research Information Assurance and Security; and George Kurtz, CEO of Foundstone, a premier IT solution provider.

UQ's AusCERT (Australian Computer Emergency Response Team) is Australia's national Computer Security Incident Response Team. It handles computer security incidents and provides a range of services including research, training and education.


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**Engineering**

**Against All Odds: Recovery of HyShot from the Australian Desert. The Story of a Pelican, a Dingo and its Pup: 7.30pm, Lecture Theatre 1, Hawken Engineering Bldg, May 8**

Find out how UQ zoologists, engineers and mathematicians joined forces in the South Australian desert earlier this year to locate a needle in a haystack.

Featuring video and photographs, the lecture will be presented by Dr Allan Paull and Professor Gordon Grigg.

The mission was to locate the remains of the HyShot scramjet experiment – a 1.6 metre scramjet payload and a 4.5 metre second stage booster in a vast region.

Scramjets are air-breathing supersonic combustion ramjet engines that are so economical they could revolutionise the launch of small space payloads such as communications satellites.

Information from the recovered parts will help researchers prepare for the second HyShot flight experiment later this year which aims to achieve hypersonic combustion in flight for the first time.

**Information:** 3365 3634, j.mergard@epsa.uq.edu.au

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**Education**

**A Community of Inquiry on Education: September 28-30, North Quay**

The Federation of Australasian Philosophy for Children Associations (FAPCA) has made a call for papers for its 12th annual Philosophy in Schools conference.

The conference will bring together academics, teachers, researchers, administrators, students and interested community members, from all fields of education and related areas to find ways to support effective classroom practices within the current climate of educational change and innovation.

Submissions must focus on one of the following themes:

- children in democratic classrooms;
- learning communities;
- new pedagogies; and
- curriculum design for lifelong learning.

Submission abstracts (maximum 250 words) must be lodged by Friday, August 30 to mia.obrien@staff.uq.edu.au

For publication consideration in *Critical and Creative Thinking*, abstracts and papers must be received by Monday, July 15.

The conference is supported by the University's Contemporary Studies Program.

**Information:** 3381 1574, g.burgh@uq.edu.au

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**Law**

**Convergence of Legal Systems in the 21st Century: UQ St Lucia campus, July 14-20.**

The XVth Congress of the International Academy of Comparative Law will be the first large event at the new UQ Centre.

Around 100 delegates will be present, including Professor Guy Canivet, Chief Justice of France; Paul de Jersey, Chief Justice of Queensland; Graham Blewitt, Deputy Prosecutor at the United Nations International Criminal Tribunal for the former Yugoslavia; and Dr Tjaco T Van den Hout, Secretary-General of the Permanent Court of Arbitration. It will examine current legal issues and their impact on intra-national and international business, and look at how legal processes impact on the societies and cultures they are designed to serve.

**Information:** 3365 2220, 3365 3546, g.moens@law.uq.edu.au

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**Building Inclusive School Communities: An Interactive Conference: June 7-8, UQ St Lucia campus**

The UQ School of Education conference is designed for those working with and in schools, and aims to address the needs of students and staff within an inclusive framework.

Issues discussed will include special needs, gender, sexuality, race, indigenous reconciliation, citizenship education, ethnicity and sectarianism.

Minister for Education, The Honourable Anna Bligh, MP will open the event, with keynote addresses by Rev. Peter Costello, lawyer and social justice advocate; and Professor Roger Slee, Deputy Director-General (Curriculum, Assessment and Reporting) Education Queensland.

UQ presenters will include: Professor Allan Luke, Dr Robyn Gillies, Professor Bob Lingard, Dr Martin Mills and Simone Smala (School of Education); and Dr Julie van den Eynde, Dr Diane Hafner and Dr Lesley Jolly (Faculty of Social and Behavioural Sciences).

Registration closes on Wednesday, May 1.

Growing knowledge

by Jan King

Three-dimensional technology is making research easier all-around for scientists.

A technology popular in the film animation industry is being used by scientists at UQ to capture data from a wide range of real objects.

The Centre for Plant Architecture Informatics is the first scientific research group in Australia to use a laser-scanning and 3D-digitising technology to provide information about plants. The technology allows scientists to capture surface data from a wide range of real objects.

Centre Director Adjunct Professor Peter Room said the technology had a “wealth” of potential applications in fields including medicine, anatomy, engineering, materials science, animation, advertising, Web design, education, architecture, arts and archaeology.

For example, an archaeologist might find a buried object, capture the shape of the object using this technology and be able to present a rotatable 3D image of it to colleagues anywhere in the world via the Internet,” he said.

“It could be used to create virtual models of sculptures and artworks; use meshes for computational fluid dynamics model input; record complete morphological data in biology, rather than just a few parameters; and create virtual textbooks with interactive 3D models in education and training.”

The technology uses a laser scanner to capture the surface data as either point clouds or as a mesh that can be used in many applications from simple rendering programs to high-end animation and special-effects, engineering or statistical packages.

Professor Room said it was available for use by the University community, government and industry.

www.cpai.uq.edu.au

Abstract survey

An exhibition of works by abstractionist A.D.S. Donaldson will for the first time include examples of his photography.

The first survey of the object and exhibition practice of Sydney-based abstractionist A.D.S. Donaldson will be on display at the University Art Museum in the Forgan Smith Tower from May 4 to June 15.

Organised by gallerist and independent curator David Pestorius, the show will bring together more than 25 works, including the Art Museum’s significant holdings of Donaldson’s work.

In addition to the survey, the retrospective will examine for the first time the artist’s photography, images taken by or of the artist and then offset-printed in exhibition catalogues, announcement cards and posters.

This little-known aspect of Donaldson’s work betrays its links to more “conceptual” practices and will be brought together in its entirety to try and further clarify what is at stake in the artist’s production.

The Donaldson retrospective is the second substantial mid-career survey mounted by the Art Museum and follows the Burchill/McCamley exhibition last year.

In addition, the first monograph on Donaldson, including 70 reproductions of the artist’s work and commissioned essays by Carolyn Barnes and Toni Ross, will be published by the Art Museum for the exhibition.
Primming for beef

A career in the billion-dollar beef industry is the focus for award-winning UQ Gatton student Andrew Hallas.

Mr Hallas, who holds a livestock auctioneers’ licence, has been exposed to the cattle business from an early age through his father Bill, a well-known Gatton-based stock and station agent.

Andrew Hallas was judged the winner of the student category in the Young Rural Achiever of the Year at the Royal Agricultural Society (RAS) of Queensland awards presentation in Toowoomba last month.

RAS Chief Executive Officer Damon Phillips said the awards, inaugurated last year, were a way of encouraging top young talent in the rural sector.

UQ Gatton, a key provider of academic education for professional careers, is a supporter of the RAS awards.

Mr Hallas began studying at UQ Gatton this year after completing a diploma majoring in beef cattle production at Emerald Agricultural College.

He is enrolled in the Bachelor of Applied Science in Animal Studies, majoring in animal production. “My Emerald experience whetted my appetite and I am enjoying my UQ Gatton studies,” he said.

“There are so many career options in the cattle industry ranging from intensive beef production to livestock marketing. The industry is becoming very professional.”

Vice-Chancellor Professor John Hay appeared on national radio and was quoted in the national media in his new position as Chair of the Group of 8 research-intensive universities.

He was interviewed about the future of Australian higher education and Australian universities’ international standings.

Also:

► Professor Wayne Hall from the Institute for Molecular Bioscience was interviewed by the Bulletin magazine on the ethics of genetic research;

► Dr Jonathon Chalk appeared on Brisbane TV news on the launch of the Wesley Hospital/University of Queensland Centre for Magnetic Resonance Imaging;

► Dr Eric Louw was interviewed by a number of national and metropolitan radio stations on recent political developments in Zimbabwe and South Africa;

► Head of the School of Veterinary Science Professor Neil McMeniman was interviewed by The Courier-Mail about the opening of the Kathleen Lambourne Building on the St Lucia campus;

► Head of the School of Law Professor Tony Tar was also interviewed by The Courier-Mail on increasing litigation and a culture of complaint;

► Associate Professor Michael Nielsen was quoted widely in a feature in the Australian Financial Review about efforts to build the world’s first quantum computer; and

► Associate Professor Judith Blackshaw was interviewed by a Sunday newspaper about her work on psychiatric disturbances in animals.
Clever writing strategy becomes a fast-track to publication success.

It says a lot about the calibre of the writing and research in a doctoral thesis if it can be immediately packaged as a book.

_The Wolf Man’s Burden_ is the postgraduate work about Sigmund Freud by Dr Lawrence Johnson, published this year by Cornell University Press in New York.

It was Dr Johnson’s ability to write for the broader market, in a style that is occasionally less than academic, which enabled him to short-circuit the usual route to publication by post-doctoral rewriting of his PhD thesis.

Dr Johnson said his supervisors Dr Tony Thwaites and Dr John Frow encouraged him to write with the commercial market in mind by addressing the aspects of Freud relevant to contemporary society.

Although it doubles as a Freud biography, the real punch lies in its examination of the relationship between Freud and his most famous patient, “Wolf Man”, and the influence this had on the origins of psychoanalysis.

Dr Johnson maintains that when Freud met Wolf Man, psychoanalysis was at an impasse because of Freud’s inability to work through repressed material from his own childhood.

The way in which Freud overcame this impasse reflects his rivalry with other psychoanalysts and his patients for control of psychoanalysis.

Cornell University’s Michael Greenberg described the book as ambitious, suggestive and brilliant reading and said Dr Johnson demonstrated an admirable and nimble mastery of contemporary deconstructive discourse.

Dr Johnson himself describes it as academic detective work with some juicy bits of gossip thrown in.

Cornell University Press said Dr Johnson offered a rigorous methodological framework for discussing the relationship between psychoanalytic writing and the lives of those who engage in it.

He fruitfully extends the work of other biographers into the realm of Freud’s own life and the result is both sophisticated psychobiography and psychoanalytic theory grounded firmly in historical lives.

_The Wolf Man’s Burden_ was launched at UQ’s Wordsmith’s Café and is on sale for $37.50. Dr Johnson is a lecturer in UQ’s School of English, Media Studies and Art History.

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**THE ENTREPRENEURIAL ARTS LEADER: CULTURAL POLICY, CHANGE AND REINVENTION**

_by Ruth Rentschler. Paperback $30._

Arts organisations have been described as temples for the muses. In this context, arts leaders play a creative role by caring for creative products. Ideas of arts institutions as centres for power, with leaders who stir the entrepreneurial pot in response to dynamic cultural policy changes, are hard to imagine. Or are they? This book provides the answer through historical case analysis, case studies and a survey of arts leaders operating in a turbulent period of cultural industry evolution.

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**THE KHAKI KID**

_by Robert Newton. Paperback $14.95._

A funny, fast-paced adventure story about 11-year-old wildly eccentric Kevin Penfold.

Kevin is in control. His ‘Penfold Pulveriser’ is world soccer’s ultimate secret weapon and his best friend is the “Italian Stallion”.

But control is as predictable as the world-cup qualifier, as Kevin discovers when his father moves out and his mum turns feral. Sometimes, when the game is on the line, the only solution is a radical change of tactics.

Winning back control may not be easy, but it can be a lot of fun. **MOBILISING THE AUDIENCE**

Edited by Mark Balnaves, Tom O’Regan and Jason Sternberg. Paperback. $34.

The first comprehensive integration of industry and academic audience research in Australia.

It introduces new directions in method and analysis, the contemporary probe into ‘audience-making’ and illustrates the ways marketers, producers and governments mobilise an audience. Included are case studies of Generation X, computer-gaming, the child audience, TV ratings and Aboriginal media.