Architecture Reunion 2000

May 2000
May edition

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2000 Schedule

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<td>Cover - Reunion 2000 - hundreds of architecture graduates returned to Newcastle last month for a weekend of reminiscing, tours, dinners, book launches and barbecues. Acting Head of the Department of Architecture, Bob Donaldson and his talented daughter, Jane Sharpe, who is currently in the third year of her Architecture studies here recorded some of the highlights on film. Story pages 10 and 11.</td>
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Vice-Chancellor’s Column

The strategic planning process for the next five years is well underway following the “retreat” in February this year. Participants included members of the University Council, student, community and union representatives, as well as senior managers of the university. This is a very successful and consultative exercise, which is managed by the Deputy Vice-Chancellor, Professor Brian English, resulting in a “new” Institutional Strategic Plan for 2000. The draft plan will be distributed later this month for comment and feedback with several iterations arising from discussions at Academic Senate and other fora, prior to proceeding to Council in August for consideration of approval.

During the course of the February “retreat”, strong support was expressed for a review of university’s organisational structures and administrative arrangements. You will be aware that we have adopted a policy of reviewing all faculties and divisions every four years. This has been a useful way of obtaining independent expert advice on the operations of the major building blocks of the university and has on many occasions provided excellent strategic advice.

Following consultation with the Council and senior managers, a decision has been taken to proceed with a major review of the university’s management model and organisational structure using a panel of external appointees. The review is timely as the university is operating quite well under current arrangements, and there are no major issues of funding shortfall or other crises that would dominate the process. We do however have major ambitions to enhance our standing as a strong research based international university, and changes may be needed in the way in which we manage our resources, deliver our teaching and research programs, and administer our activities.

The review will proceed in two phases:

- a preparatory phase will be managed by the Deputy Vice-Chancellor, with the assistance of Dr John Drinan, who will be seconded during May-July, to produce documentation which will be used for the external review in phase two. This will comprise five components, including a brief historical account of the university, a summary of present organisational and administrative arrangements, our place in the higher education sector and in the region and a statement of the kind of university we are and plan to be; a statement of the directions of the university, based on the Institutional Strategic Plan; a statement outlining principles to guide the administrative arrangements, organisational structures and management model for the university, drawing upon the relevant international literature, as well as current Government policies and statements about higher education; a full description of current structures, organisational arrangements and the management model of the university; and identification of several options of broad management models which might better suit the university in meeting our goals and objectives.

- the external review phase will be conducted during August-October by a review panel to be appointed during the first phase. The panel will consist of two distinguished persons with experience at senior university levels ( retired or serving Vice- Chancellors or Deputy Vice-Chancellors), and a business/ community representative. The panel is planned to conclude its report by November 30 in time for a final report to the University Council by December.

During the review phases, there will be opportunity for consultations and/or submissions to be received from senior university managers, Council members, other staff, student and union representatives, and the wider university community.

Given that it has been over eight years since the last university wide review, it is timely and appropriate that we undertake this current review, so that we can position and prepare the university for the next stage of its development. I invite all of you to participate in this important process, and encourage and welcome your interest and participation.
The university strengthened its links with Singapore with the signing of several important agreements with institutions and educational groups during a visit by the Vice-Chancellor and the Director of the Graduate School in April.

An agreement was signed with the Singapore Polytechnic to promote cooperation in the areas of staff and student exchanges, collaboration on research projects, joint conferences and cultural exchanges.

"The university will cooperate with the Polytechnic on academic, administrative and curriculum matters as well as encouraging a healthy exchange between academic and administrative staff," the Vice-Chancellor said. "Such agreements benefit both institutions and I was delighted to be able to formalise our dealings with the signing of a Memorandum."

The university also signed an agreement with the Oriental School of Business (OSB) to deliver the Bachelor of Business and Bachelor of Commerce in Singapore. The degrees will be delivered jointly by the OSB and the Faculty of Economics and Commerce.

The third significant agreement reached during the visit was with the TMC Educational Group to work towards agreements to deliver the following courses in Singapore:

- Professional Diploma/Bachelor of Management and Professional Diploma/Bachelor of Applied Information Technology (to be jointly delivered by TMC and the Faculty of the Central Coast);
- Professional Diploma/Bachelor of Communications (to be jointly delivered by TMC and the Faculty of Arts and Social Sciences); and
- Diploma/Higher Diploma in Construction Management (jointly between TMC and the Faculty of Architecture, Building and Design).

Professor Scott Holmes and the Vice-Chancellor visited Singapore from April 26 to 29.
Eugenics alive and well

Eugenics, the practice of eliminating or controlling ‘undesirable’ groups or races, is alive and well in the 21st Century, according to speakers at a recent conference hosted by the Faculty of Arts and Social Sciences.

The first History and Sociology of Eugenics Conference on April 27 and 28 took place almost a hundred years after Francis Galton and others in Britain were advocating the formation of the Eugenics Education Society to offset what was perceived to be a level of racial decay that was bound to destroy the ‘great’ British Empire. Sponsored by the Dean’s Unit of the faculty, the conference attracted prominent researchers into the history and sociology of eugenics, as well as people from the health sciences. Forced sterilisation, racial superiority, female circumcision and genetic engineering were among topics discussed as part of the controversial analysis of Australia’s history during the conference.

Dr Grant Rodwell from the Dean’s Unit, who was one of the organisers, said that one of the keynote speakers at the conference, Emeritus Professor Michael Roe from the University of Tasmania, had been instrumental in lifting the curtain of secrecy surrounding the study of eugenics more than 30 years ago. His paper positioned genetic engineering as another means of establishing a ‘desirable’ race by eliminating traits which are considered ‘abnormal’.

“People tended to believe the propaganda put out during World War II that this sort of thing only happened in Nazi Germany,” Grant said. “Now historians are prepared to discuss it, as well as sociologists and anthropologists, and their studies have greatly increased our understanding of such things as the ‘stolen generation’ and the scientific racism associated with it and other practices.

“Genetic engineering is just a new facet of eugenics.”

Dean of the Faculty, Professor John Ramsland, pointed out that while people may not have agreed with such things as sterilisation campaigns, they often argued overwhelmingly in favour of ‘racial betterment’.

In his keynote address, They Ride the Surf like Gods, John explored the Sydney beachside culture between 1902 and 1940. He postulated that even before the image of the Anzacs entered the popular imagination after Gallipoli, there was a ‘widespread popular belief’ in the production of a newly defined nation of white Australians of British stock and of superior physique, with surfing as its focus. From the summer of 1903, when Manly Municipal Council removed its ban on daytime surf bathing, the ‘Manly Boom’ of body surfing was well under way.

“The boom in the sport was accompanied by a myth that the bodies of both men and women were being transformed – a myth which absorbed the western ideal of physical development based on the ancient Greek predilection for physical perfection, glorifying the well-formed body while deprecating the ‘infirm, the aged, the ugly, the misshapen’,” John said.

The cultural eugenics that was encouraged by images of bronzed surfers as gods was a form of social Darwinism, he said, and the movement is “still very much alive and kicking”.

“While such a movement of cultural eugenics was taken very seriously between the wars, people in Australia at the beach still promenaded, watched, show-off the beauty of their physical form, sunbask and surf relentlessly – and pretend they will never grow old and develop cancer spots,” John concluded.

The conference provided a ‘unique and valuable forum’ for those interested in the study of the history and sociology of eugenics, Grant Rodwell said. The theme: ‘A Race for a Place: Eugenics, Darwinism and Social Thought and Practice in Australia’ sought to address the study of eugenics in its widest context. More than 60 sociologists and anthropologists, social, cultural and political historians, as well as historians of medicine and of education attended the conference, he said.

Speakers included Stephen Garton from the University of Sydney, Russell McGregor from James Cook University, Philippa Mein Smith from the University of Canterbury and Roy Lowe from the University of Wales.

“The conference was an unparalleled success,” Grant said. “Apart from the obvious benefit of promoting scholarship in this fascinating area, it helped to promote the faculty’s cutting edge research. The boost to our reputation, nationally and internationally, is invaluable.”

Grant paid tribute to TUNRA, which acted as the conference secretariat, to the venue, Customs House in Newcastle, and to the University’s Marketing and Media Services unit for their promotional work, for their parts in ensuring the success of the conference, which was held on 27 and 28 April.
Knights players score with business course

The university is helping to ensure that Newcastle's footballing heroes, the Knights achieve just as highly off the field as on with a small business program tailored for the players.  
Fifteen first grade Knights players began a 10-week course at the end of March that will provide them with skills for the future including marketing and business-plan development.  
Course presenter and Director of the Graduate School Professor Scott Holmes said the program was developed after consultation with the players about their lives and careers after football.  
"We surveyed the players and when we reviewed the responses, the interest was overwhelmingly in the area of small business management," Scott said. "They lead a fairly independent lifestyle as footballers and they want to maintain that lifestyle and be their own bosses when they finish."  
The Graduate School is responsible for the development of executive and short course programs for the university and Newcastle City Council.  
"We have negotiations in train with other large corporations, particularly in management programs that are designed to articulate into our tertiary courses," Scott said. "Another aim is to engage the community and offer alternate programs and the Knights course does that."

The National Rugby League (NRL) has guaranteed minimum levels of career and lifestyle education under a Player Welfare Program introduced in March.  
"There is a clear desire to see players become champions off the field as well as on the field," NRL Chief Executive David Moffett said. "The game already has a solid program of running traineeships for players at all levels...the next phase will offer players consistency across all clubs."

Learning valuable skills - Knights players (left to right) Danny Buderus, Glenn Grief, Billy Peden and Matt Griffin at the small business course.

The Knights players have been busy writing business plans using a case study of three players wanting to start a business. They will be provided with the real skills they need to run a small business with lectures from Scott as well as tuition from the Executive Director of Finance and Property Brian Penfold on the GST, marketing and advertising from Glenn Thornton of the Graduate School, and guest lectures from business owners.

"The players are building something very real out of the course," Scott said. "They have a concept and have conducted market research themselves that shows it could be a feasible business."

The players have contributed half the cost of the course themselves, with the club picking up the rest of the tab. Knights media coordinator, Stephen Crowe, said it was in the club's interest to make their players well-rounded individuals. "We have a moral responsibility to make sure the players have a life after football," he said.

The Graduate School intends to talk to other sporting clubs about implementing similar courses for their players.

Targeting language difficulties in ADHD kids

The nature and extent of language difficulties experienced by children with Attention Deficit Hyperactivity Disorder (ADHD) will be investigated in a study believed to be the first of its kind.  
The research, by PhD student and Speech Pathologist, Margaret Mathers, aims to identify particular language difficulties which may usually remain undetected in these children.

"Many children with ADHD are found to have significant speech and language difficulties, but there is a group that, according to traditional Speech Pathology testing, is considered to be 'language normal'.  
"I am trying to determine if these children in fact have subtle and specific language difficulties that are not detected with these traditional standardised tests. Unidentified difficulties may continue to disadvantage these children in their ability to effectively communicate, which in turn may have a negative impact on their schooling, and on their ability to interact socially," Margaret explained.

She is conducting the research through the Department of Linguistics in the Faculty of Arts and Social Science, and will test 20 children from the Newcastle and Hunter region who have been diagnosed with ADHD.  
A control group of 20 children who do not have ADHD will also be tested to see if any difficulties are unique to children with the disorder. All children will be aged between eight and 12 years.

The children will undertake a series of spoken and written tasks in which their ability to create stories and discuss and write particular responses, such as recounts and explanations, will be assessed.

"We hope that the results will give us a better idea of the scope of language difficulties which may be present in these children. So much development in learning and behaviour is dependent on a solid basis of good language skills; if a particular language difficulty exists in ADHD then it is important that we identify it and try to intervene," she said.

For further information contact Margaret Mathers on ext 7349.
Director of the Institutional Research Unit (IRU) David Marr knows the value of gathering data. The information and statistics collected by his unit help us to monitor how the university is performing against its strategic targets and against its competitors, as well as revealing how we are viewed by students and graduates.

"Institutional research blossomed in the early 1990s in Australia," David said. "When Gem (University Secretary and Registrar) arrived in 1994, she wanted to give a different focus to the Management Information Unit, which provided external agencies such as DETYA with the statistics they required."

In setting up the Institutional Research Unit, Gem sought to add value to the university's statistical analysis to allow more profiling in terms of student demographics, to help inform planning. She devolved the external reporting requirements of the unit back to the functioning areas responsible for them ie. student statistics back to Student Administration and staff data gathering back to HRM.

"There is still a role for the IRU in ensuring the quality of data and we are involved in helping the groups to put quality checks in place and to tailor their data to fit in with the big picture," David said. "The introduction of three new information systems in HRM, Finance and Student Administration, gives us an opportunity to introduce some consistency in codes used that would make comparison of figures easier."

While David has only been in the IRU since the beginning of 1998, he began working with statistics at the University of New South Wales in the early 70s while he was studying there towards his Bachelor of Science. He worked in their statistics department full-time from 1972 until he began his studies in 1976 and then continued to work there in his holidays. "It was a different world then," David remembers. "We worked with an enormous computer with a lot of punch cards and I remember the excitement surrounding our first electronic calculator."

After working in data management for the Water Resources Commission in Sydney, David came to Newcastle in 1984 to do a Diploma of Education. He quickly discovered that teaching wasn't for him. "There was a funny atmosphere in the schools and I didn't like the idea of locking kids in classrooms for six hours a day," David said. "Also, I'm not very big and I don't have a big voice so it wasn't a good experience for me trying to teach."

Although he didn't like teaching, David did like Newcastle and in 1985 he became the university's first enrolment officer. After holding various roles, mostly in the student area, he came to the IRU in 1998 and became Director last October after acting in the position for much of last year.

The IRU operates in a number of areas. It produces and publishes statistics that provide facts about the university. More recently, the unit has taken a leadership role in quality assurance, working with the Deputy Vice-Chancellor, Brian English, to develop a suite of reports to measure the university's performance against its strategic planning indicators.

"Our role in quality assurance is to monitor various indicators so that management can see if the decisions they have made have had the right outcomes," David said. "This year we will review our benchmarking strategies in order to develop a range of suggested indicators for the university."

Last year, the IRU piloted academic performance reports, preparing them on the courses of the three faculties that underwent external review - Nursing, Economics and Commerce, and Science and Mathematics.

"We provided a report on each of their courses that looked at demand, applications, enrolments, local versus international ratios, course completions, attrition rates, and graduate outcomes," David said. "It was the first time that the faculties had seen summarised information on their courses drawn together in one place and I think they found it useful."

The unit will expand the reports to provide summarised information at a faculty level bringing together indicators such as the Student Evaluation of Subjects that is undertaken by the university each year and the Course Experience Questionnaire completed by graduates.

"If we bring together a number of different indicators, we can identify consistent patterns so that decisions can be made to improve what we are doing," David said. "We have just completed a review of all the postgraduate coursework courses in the same format to see how we are performing in that area."

David supervises four others in the Institutional Research Unit - Peter Haines, Petrina Mosely, Warwick Foster and Paul Keegan. He is also working with people from Marketing and Media Services, Careers and Student Employment and Survey and Evaluation Services who are also interested in quality assurance.

"Unless we monitor things, we won't know if we are on track," David points out. "The information that the IRU provides is essential to the university for monitoring the success of strategic initiatives and for developing new ones. It has an important role in ensuring the provision of high quality courses across the university."

To find out more about the IRU, visit their website at www.newcastle.an/services/ousr/iru/about.htm.
National Science Week

Rocket building and flying, astronomy viewing, science shows and more were all part of National Science Week activities from May 1 in the Hunter region.

The newly-formed Hunter chapter of the Australian Science Communicators and the university coordinated events for National Science Week, which officially ran from May 3 until May 10, but was marked in the Hunter with over two weeks of activities for the whole family.

Highlights included "Sport? Fun Science!" shows, which used sporting equipment to demonstrate the role of science in sport; rocket building and flying at Speers Point Park; astronomy viewing at Boolaroo and the Callaghan campus; a science film festival at the Regal Cinema, Shortland; and SMART Science Shows (Science, Maths and Real Technology).

The program aimed to raise the level of awareness and understanding of science and technology in the community.

Terry Burns from the SMART program says the activities are designed to show the significance of science in everyday life.

"A 1999 report commissioned by the Australian Council of Deans of Science revealed a disturbing decline in enrolments in the enabling science subjects of Mathematics, Physics and Chemistry;" Terry said.

"Between 1991 and 1996, the number of New South Wales students studying chemistry fell by 28 per cent, while there was a 23 per cent drop in the number of students studying 3 Unit Science.

"Sport? Fun Science!" was part of the local program of events for National Science Week, which was coordinated by the newly formed Hunter chapter of the Australian Science Communicators (ASC) and the university from May 1.

The development and presentation of the shows was funded by the university and a $7,000 grant from the Department of Industry, Science and Resources. While National Science Week officially ran from May 3 until May 10, the university - in conjunction with several organisations across the region - organised over two weeks of activities!

Another example of science in sport is in high jumping. How can the athlete get over the bar when their centre of mass doesn't? This and other questions are answered in the shows.

Buckyballs (Buckminsterfullerenes) as they are technically known - in the mid 1980's. They are a tiny form of carbon molecule with a perfectly symmetrical shape like a soccer ball, and scientists say they have the potential to revolutionise chemistry.

Under high pressure, Buckyballs go as hard as diamonds. They are super conductors of electricity at high temperature. Chemists have also tested them for pharmaceutical delivery and they have already found a place in the battle against AIDS.

Sir Harold Kroto presented his lecture on Friday 10 March in the Mc Mullin Lecture Theatre. The lecture was open to the public.

Above and below: Verity Foat demonstrates the "gyro chair" in a sports show at Corranbong Public School

Buckyballs scientist in Newcastle

A Nobel Prize winning chemist discussed one of the strangest sounding substances in science - Buckyballs - when he visited the university in March.

Professor of Chemistry, Sir Harold Kroto, discovered Buckyballs (Buckminsterfullerenes) as they are technically known - in the mid 1980's. They are a tiny form of carbon molecule with a perfectly symmetrical shape like a soccer ball, and scientists say they have the potential to revolutionise chemistry.

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The science of sport

What does sport have to do with science? Nothing? Wrong! In fact, science plays a large role in sport, and students at Hunter schools have been finding out how this month.

As a special National Science Week event, university science students have been visiting local schools to present a new, interactive show demonstrating the relationship between sport and science. The "Sport? Fun Science!" show uses equipment such as cricket bats and bats to demonstrate the role of science in sport.

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Physics lecturer Terry Burns, who is coordinating the science shows, said bookings from schools had been almost overwhelming.

"We officially started at Maitland's Grossman High School on May 3 and look like continuing for most of May," Terry said. "Subject to funding, we would like to take the show to more Hunter primary schools in coming months."
The nervous graduands, proud families and electric atmosphere that precede every graduation ceremony were doubled on the Central Coast Campus this year as the growing numbers graduating made it necessary to hold two ceremonies.

Pro Vice-Chancellor and Director of the Central Coast Campus, Professor Les Fastcott, said that holding two ceremonies allowed due recognition and credit to be given to graduates.

"It's a marvellous position to be in," he said. "The Campus has grown rapidly and steadily over the past few years and we are now seeing more people reaching their goal of graduation.

"Graduation is a special time when we pause to congratulate our students, recognise their efforts and celebrate with them. Every graduate has put effort and dedication into their achievement. It is a proud time for them and their families and friends as well as the Central Coast Campus," he said.

This is the third year that graduation has been held on Campus with the three education partners, the University of Newcastle, the Hunter Institute of Technology (TAFE) and the Central Coast Community College participating in the ceremony.

An honorary degree was awarded to Central Coast medical practitioner and community leader Dr Pat Harrison AO at the morning ceremony. Dr Harrison also delivered the occasional address.

The occasional address at the afternoon ceremony was delivered by former Minister for Education and Youth Affairs the Hon. Susan Ryan AO.

Honorary degree to popular local identity

Well known local identity Dr Pat Harrison was awarded an honorary doctorate at the Graduation Ceremony held at the Central Coast Campus on 14th April.

Dr Harrison has practised medicine in the area for more than 30 years and in 1986 opened a women's medical centre in Gosford. In 1988, she transferred the practice to the Gateway Medical Centre where she still practises. Also known for her commitment to the local community, Dr Harrison entered local government in 1983 as an alderman on Gosford City Council and was Mayor of Gosford from 1986 to 1989 and from 1990 to 1991. During that time she was part of the steering committee established to develop the Ourimbah site into a tertiary campus. She has been involved with the university ever since.

She is currently a board member of the Central Coast Regional Development Corporation and chairman of the Central Coast Sun Weekly Media Group. Until recently she was also chair of Magill English Language College in Gosford. She has an interest in affirmative action and equal opportunity issues and joined the Federation of Business and Professional Women in 1978. She has held many positions within that organisation at local, state, national and international level and last September was elected International president for a three-year term. In 1992, Dr Harrison was awarded the Medal of the Order of Australia for services to local government and women's affairs.

Cultural interest earns medal

Honours graduate in Arts and winner of the University medal, Deborah Dunn, said that curiosity about other cultures prompted her to study.

Deborah, who specialised in sociology and anthropology, said she started with Open Learning but reached a point where she thought she should do 'the real thing'.

Enrolling at the Central Coast Campus opened a door that has not only seen her complete her undergraduate degree, but has allowed her to enrol in doctoral studies at the Campus.

"I left school in Year 10 and didn't have the opportunity for university study then," Deborah said. "I suppose I have made up for it now.

"My studies have given me an appreciation of how other people live and a real insight into other cultures. My main research interest is the very rich culture of Papua New Guinea," she said.

Deborah said her family was very proud of her achievement.

"I'm very excited about graduating," she said. "It's a great feeling."
Opening the vault

Newcastle history students will soon be able to access a range of currently hidden archival documents with a click of their mouse thanks to an agreement brokered by lecturer Wayne Reynolds with the National Archives in Canberra.

Wayne has arranged for an initial batch of 1000 documents relating to the history courses he offers in Australian foreign relations to be scanned onto the web in time to be used by students in first semester 2001. He has made the arrangement in collaboration with history staff from the Faculty of Education in a bid to increase a recognised shortfall in resources for the revamped Modern History syllabus for the Higher School Certificate.

"The new syllabus puts a greater emphasis on Australia in our region in the 20th Century," Wayne explained, "and there is a real shortage of good secondary source materials."

Australian Cabinet papers are automatically declassified each year in line with the 30 year ruling and selections of them are put onto the web. The documents Wayne is having scanned provide the background and context to Cabinet decisions and include departmental reports from the Department of External Affairs and the Department of Defence as well as trade documents and diplomatic cables from Australian embassies abroad.

"The idea is to create a sequence that links the files and gives students an insight into contemporary issues," he said. "Information now coming to light gives a whole new perspective to Australian history and areas we will be looking at include Australia's good relationship with Japan in the 1930s, our attitude to East Timor in the 1960s, Indonesian independence, Western New Guinea and Australian involvement in the Pacific War, from 1937 when Japan invaded China through to ANZUS and the treaty with Japan."

Newcastle history students and lecturers make a regular pilgrimage to Canberra to carry our research on the vast resources they store. Staff of the archives were happy to help when Wayne approached them last year to request that they make the documents available on the web.

With tens of thousands of documents on file, it is difficult for them to know which would be useful to their market so they were pleased to be given a direct request for an established course. Wayne will select which documents will be scanned, how they will fit into his subject guides and plans to classify the files by theme and by area to index them. The web documents will be used to supplement other resources such as course readers, monographs and journals.

The history courses that will use the archive documents are HST 220, Foreign Relations: Australia and the Great Powers, and HST 221, Australian Foreign Relations: Australia and Asia. The first thousand documents may only be the tip of the archival iceberg. Wayne anticipates that the popularity of the initial site will lead to the archives making many more available. The site would be invaluable to under- resourced teachers struggling to present the revised HSC curriculum, as well as researchers and students. Ultimately, the other institutions that have dedicated foreign relations history courses, Deakin University and the Australian Defence Force Academy, may collaborate on the online project, Wayne said.

"There is such a rich goldmine of material in the archives, but a lot of researchers don't tap them," he said. "It is fantastic to get a totally new perspective on our history...it gets into the blood."

Improved wastewater treatment for dairy farms

Results from a three year project at Tocal Agricultural College show a constructed wetland system is a cost effective way of reducing pollutants in dairy waste.

The trial wetland system was built in 1995 by Phillip Geary, a Senior Lecturer in Environmental Science at the university, with grants from the Dairy Research and Development Corporation and Hunter Catchment Management Trust.

The aim of the project was to monitor inputs and outputs from the wetland and examine the effectiveness of the treatment system in reducing pollutants. A constructed wetland system is a passive wastewater treatment system using natural processes to improve water quality. At Tocal, two 32-metre long trenches were planted with three species of native wetland plants and dairy effluent monitored as it passed through the vegetation. After wetland treatment, it was spray irrigated on pasture.

"Wetland systems successfully treat and polish municipal effluent," explained Phillip. "But dairy effluent is stronger and if it isn't disposed of properly, can cause major environmental problems with odour and water pollution.

"Our trial system significantly reduced the amount of suspended solids in the effluent and natural processes in the wetland helped break down organic matter and reduce nutrients such as nitrogen and phosphorus."

The wetland system is nature's way of cleaning up wastewater, according to Phillip. "It is cheap to construct, requires little maintenance and the treated water can then be re-used on pastures with minimal impact on the soil or surface water systems," he said.

"The results show a constructed wetland is useful as an alternative treatment system, but its use in dairy farming operations would need to be properly managed."

The Dairy Research and Development Corporation is preparing a fact sheet on the findings for dairy farmers. For further information: Phillip Geary on (02) 4921 6726.
Mr Suters returned to the University for a major reunion of architecture graduates, “Reunion 2000”, in April. Mr Suters graduated from the Newcastle School of Architecture in 1961 with First Class Honours and the University Medal, before taking up a prestigious Byera Hadley Postgraduate Scholarship to travel and work in Europe. On his return to Newcastle in 1964, Mr Suters formed a partnership with Ray Wilson and Don Barnett - the beginnings of the practice now known as Suters Architects, with offices in Newcastle, Parramatta, Sydney and Brisbane. He was one of around 160 graduates of the
Newcastle School of Architecture to visit the city on the weekend beginning April 7. Others flew in from Singapore, Hong Kong and the United Kingdom for the three-day gathering. Bob Donaldson, Acting Head of the Department of Architecture, said “Reunion 2000” was an unprecedented event. “There is evidence of professional architectural education in Newcastle dating back to the latter part of the 19th century,” Bob explained. “From 1921 architectural courses were offered in the city by the Department of Technical Education, while diploma and degree courses have existed in the city under the control of the University of New South Wales and, since 1965, the University of Newcastle.” “In all this time there has never been a formal major gathering of architecture graduates or staff. Newcastle architecture graduates are employed across the world, and this was a chance to renew acquaintances, exchange ideas, and take a look at the changing physical architecture of Newcastle,” he said. The reunion began with a tour of the campus on Friday 7 April and ran until Sunday 9 April, with the reunion dinner held on Saturday 8 April at Newcastle Town Hall. Events included barbecues, dinners, and tours of the campus and the city. Two soon to be published books “Architecture Newcastle, Preserving its Educational History” by Bob Donaldson and Don Morris, and ‘The Architects of Newcastle and the Hunter and Their Buildings, 1840 - 1940’ by Les Reedman were launched during the reunion weekend.

Scholarship honours Eric Parker. As a result of the Reunion, the organising committee is setting up the Eric Parker Memorial Scholarship, the first of its type to be awarded to a Newcastle architecture student. The scholarship will be established in memory of Professor Eric Parker, the first full time teacher to be appointed to the school in 1957. Bob Donaldson said the Faculty owes its existence to Eric. “There was a great deal of resistance towards professional faculties at the time of autonomy in 1965,” Bob explained. “Eric championed the study of architecture at Newcastle and then went on to become the second Professor of Architecture following the retirement of Frederick Romberg in 1974.” Eric Parker was also University Planner and was responsible for the establishment of the Callaghan campus and its early policy of sustainable development. The scholarship will provide a student with a round-the-world air ticket and some money to survive whilst away. “The successful student will be required to keep a travel record and a sketchbook,” Bob said. “Eric would have delighted in both requirements.”
Chaos thrives in psychology

Newcastle psychology student Alice Kelly thrives on chaos and her interest is about to take her to America for the summer.

Alice, who is completing her PhD studies in the Department of Psychology, has won a scholarship to attend Summer School at the Santa Fe Institute in June.

Chaos theory, or dynamical systems theory as Alice's supervisor A/Professor Richard Heath and Dr Andrew Heathcote prefer to call it, is a relatively new approach to the study of psychology that seeks a source of determinism in complexity rather than dismissing it as randomly generated.

Alice was introduced to chaos theory in an unusual way while she was doing her undergraduate science degree at Newcastle. She had returned to her hometown, Canberra, for the holidays, already disillusioned with the traditional reductionist approach to psychology, and was given a copy of "Chaos" by James Gleick by a stranger in a bookshop, who thought she would enjoy it. The development of powerful computers allowed scientists to model complex areas of reality they had not previously been able to study. The introduction was serendipitous for Alice, who then did Honours in Psychology at Newcastle and came into contact with the dynamics group, including Richard and Andrew.

"A lot of the time in the study of psychology, the individual is removed and we go towards general theories to explain things, only to return to the individual when we go into practice," Richard said. "Chaos theory provides a way of easily seeing how unique people are and puts the individual back into psychology." Attention appears dynamic and unstable in that we can switch our attention easily and quickly. Researchers looking at the vigilance paradigm, however, have traditionally found that attention performance tends to decline over time-on-task. Research into the fluctuations in performance has not been carried out, despite the fact that measures of mean performance decline only account for around 10 percent of the data, with the remaining 90 percent being ignored as featureless and random "error". Alice's research uses an intuitive form of geometric computer modelling to explore the variations.

"While random processes have infinite degrees of freedom and are described statistically, chaos is a solution to a simple, non-linear equation, and is, therefore, entirely deterministic, albeit in a strange way," she said. "Richard is at the forefront of mathematical psychology and his research pushes the boundaries. He is also an expert in reaction time, which is the main way of measuring cognitive processes." Alice will submit a draft of her thesis before leaving for the United States, where she will commute with like minds at Santa Fe during the summer as well as attending conferences in the area.

"The study of complex systems blossomed in the 1980s, more so in North America than here," she explained. "Mitchell Longstaff, who also did his PhD with the dynamics group at Newcastle, won a postdoctoral fellowship to the University of Arizona to continue his studies." Alice hopes that her forthcoming trip, sponsored by the School of Behavioural Sciences in the Faculty of Science and Mathematics, will bear fruit for her and that she can carry on her studies in "chaos" in the future.

CD, world tour for Conservatorium Choir

A CD featuring modern and traditional church music has been released by the University of Newcastle Conservatorium Chamber Choir on the eve of a UK tour.

Voices and Vision was the choir's first commercial venture and most of the performers are undergraduate students from the Faculty and Conservatorium of Music.

"The recording reflects not only the breadth and diversity of talent amongst the choir members, but also the diversity that exists in church music. It will appeal to many tastes," said conductor Philip Matthias.

Songs range from "Amazing Grace" to the traditional Australian melody "Marrkapmirr" which has been recorded for the first time on Voices and Vision.

Last month the group left for a tour of the United Kingdom, which includes engagements at St Paul's Cathedral in London, and four broadcasts on BBC Daily Service.

The tour was the result of Philip's suggestion that the choir sing at a national church music gathering at Canterbury Cathedral. The Guild of Church Musicians (UK) is holding its annual conference in Canterbury. The conference attracts high profile church musicians from around the UK.

"The University has a connection with the Guild as the Conservatorium offers the Guild's Certificate and Fellowship courses. Hence plans for our choir to attend the conference were very warmly welcomed," Philip explained.

The CD, recorded predominantly at Newcastle's Christ Church Cathedral, is presently on sale in Sydney at Michael's Music Room, and in Newcastle at the Conservatorium of Music and Newcastle Cathedral. To purchase copies contact Philip Matthias on 4929 4348 or Marketing and Media Services on ext 5594.
**Spotlight on the Deans**

Professor Barry Maitland  
Faculty of Architecture, Building and Design

**Background**  
I was born in Paisley, Scotland but my family moved to London and I grew up there. I read architecture at the University of Cambridge and then went to work on the New Towns project in England and Scotland. Beginning after the war, New Towns catered for a growth in population coupled with slum clearance by building new towns for up to 100,000 people outside the existing cities. It was an innovative experiment and the small teams who planned them were given sweeping powers by the government. I then went to the University of Sheffield to set up their Design Teaching Practice, which was intended to be the architect’s equivalent of a teaching hospital for doctors. Beginning in 1974, it ran for almost 10 years as a self-sustaining educational program where students worked on real projects. While I was there, I also did my PhD in urban design.

In 1983, after deciding to focus on an academic career path, I applied for the job as Professor of Architecture at Newcastle. I had heard about the innovative nature of the medical faculty here and it had some parallels with the practical teaching I’d been involved with at Sheffield.

**Strengths**  
The faculty’s great strength lies in its undergraduate teaching. The architecture school has always had a reputation of producing sound practice-oriented graduates and we have built on that, introducing problem-based learning to the program in 1985. PBL lends itself to all professionally directed courses and once the profession had accepted it and we gained accreditation, the Newcastle course became a standard in Australia. It gave Newcastle a distinctive profile and made the program unique. We used the same principles to design the Construction Management course, which was added in 1993. The strong industry push for the building course meant that the State building licensing board provided funding to build Red Square. One of the conditions for their support was to make education available to builders outside metropolitan areas by providing the course in distance learning mode and this was done within a year of providing the course on campus. This had never been done with an Australian building course before so this was also unique. As a result of the work done to develop the course, it has recently been awarded a special high distinction award by the Institute of Building.

The Department of Design recently joined the faculty and it also has a strong reputation in Australia for its excellent undergraduate program, so it is really a faculty wide strength.

We are also strong in our international connections, with plenty of international students studying in Newcastle and faculty involvement in offshore programs in Singapore and Malaysia. Design has just attracted a significant cohort of students from Scandinavia.

**Challenges**  
In line with the university’s strategic plan objective to develop coursework postgraduate programs, we are working to develop management programs in architecture, construction management and design, building on the four basic management units offered by the Graduate School of Business. This will allow us to build a strong suite of coursework postgraduate programs for professionals in those areas to upgrade their qualifications. We have just had our first enrolments in the Master of Architectural Management and we will roll on with that development.

Research is another area where we have a major challenge. Traditionally, professional courses like ours don’t have strong research profiles but we are working hard to develop this. Architecture now has its research at a strong benchmark level with any other Australian university. Construction management is also strong and design is just beginning, which is very exciting for the staff there who haven’t previously had much opportunity to pursue research.

**Work**  
This is my 17th year as dean of this faculty and during that time I have always taught. I currently have a fourth year architecture class, with an emphasis on my research area of urban design. I also have a research interest in architectural history, particularly of the Hunter Valley, and published a book, with David Stafford, that was a bicentennial Guide to the Architecture of Newcastle. Preparing the book sparked a lot of research and I have just completed a study of the Pender architectural practice in Maitland, which has run for three generations and was one of the most prolific and significant practices in the Hunter Valley. It is very satisfying when you are working in an area to feel that you can reach mastery of it.

Someone once said that in order to enjoy being an architect, you have to be a bondage fetishist because of the enormous constraints that inhibit you, such as time, budget, clients’ tastes, etc. That climate of constraint makes you focussed and I tend to be quite disciplined about how I use my time.

**Leisure**  
As my fiction writing becomes more of an established thing [Barry is an award-winning crime writer with the recently published Silvermeadow the fifth in the successful Brock and Kolla series, publishers want continuity but it is still fun for me. Just as sailing or golf completely absorbs some people, writing is my distraction. I have a vegetable patch which I enjoy digging in when I want to do something physical although I’m usually thinking while I’m doing that, either about writing or about work.

**Future**  
I am retiring from the university in December and I have a period of long service leave beginning from July 25, so my future is easy to predict. I will stay in Maitland, where I live. My immediate deadlines are in the writing area.
Moya Farrell (22/4/40 – 16/4/00)

Moya's activism began at university when she joined a protest outside a South Yarra Hotel which refused to serve Pacific Islanders. She proudly held up a sign which said South Africa, South U.S.A, South Yarra. After coming to live in the Hunter Valley, she and her husband, Bob Berghout, were at the forefront of making Newcastle a nuclear-free port. Her beliefs brought her into conflict with the law and in 1984 she served a week in gaol after entering the base at Cockburn Sound, protesting against the presence of US nuclear ships.

Moya claimed that cancer gave her the freedom to become a full-time activist. As signs of secondaries recurred, she would undergo treatment, make radical changes in lifestyle and would focus even more clearly on the injustices around her. In an interview with Jane Worthington for the Newcastle Herald (16/2/98), she said: “Living joyfully on the very edge of holocaust is an image that I sort of like”.

In her work with the Aboriginal Support Group, she was insistent that no action should be taken without the advice of Koori people. Out of such consultation came the Yamuloong project in local schools and the Jack Doherty Scholarships for Koori students at the University of Newcastle. Under Moya’s guidance, Warreker, the support group’s newsletter, succeeded in publicising issues like Mabo and Wik. Moya’s vision was a major factor in the Coming Together Day in 1993 resulting in thousands of people signing The Hunter Commitment to Indigenous Australians and encouraging the production of the Newcastle City Council’s first statement in commitment. Moya was honoured by the Peggy Hill Peace Award in 1987 and the City of Newcastle Medal in 1999.

Moya relished her years as an alto with the Newcastle University Choir. Our performance of Bojjan, by Martin and Peter Wesley Smith, was a high point as it brought together her delight in words as well as music. I remember her after that performance, eyes bright, face flushed, her smile full of joy.

Illness prevented her coming back to the choir this year but two weeks ago, over forty of the choir’s members gathered together to sing at Moya’s bedside. Yesterday we sang at her funeral and tonight we dedicate our performance of the Faure and Rutter requiem to Moya as a tribute to her friendship and her valiant work for peace and justice.

Zeny Giles wrote this tribute to Moya, which was included in the program of the Good Friday performance of the Choir.

Moya worked part-time for the University helping international students after moving here with husband Bob, who lectures in mathematics. Her most recent role at the University, however, was as a tutor under the Aboriginal Tutoring Assistance Scheme (ATAS) that is administered by Wollotuka Aboriginal and Torres Strait Islander Education Centre. Director of Wollotuka Laurel Williams says Moya was a ‘wonderful woman’ who was involved in challenging issues right up to her death.

“She was very passionate about Aboriginal issues, particularly those that might challenge attitudes,” Laurel said.

“But the way she did it was not in the general tradition of flag-burning hype. Moya went about her business and got on with it and achieved a lot.”

Despite her many years as a member of the Aboriginal Support Group and her work under ATAS, Moya never assumed she could speak on our behalf, Laurel said, and was always conscious of seeking Aboriginal opinion on issues such as the Newcastle City Council’s commitment to reconciliation.

“Moya’s quiet energy and sense of right for all people, but particularly for Aboriginal people, will be very much missed,” she said. “Her spirit is carrying on in the work of others in the Support Group.”

Finance One and ProMaster upgrade

During April a major upgrade to Finance was undertaken to ensure that the application would comply with Federal Government requirements for the implementation of the GST on July 1. The application provider, Technology One, advised the university that we were required to upgrade the Oracle database software from version 7 to version 8. Advice was then sought from the software supplier of ProMaster regarding the use of Oracle version 8 with their application. The university was assured that the ProMaster application would function using Oracle version 8. This was not the experience endured by the university and required us to revert to the previous version of the application.

The upgrade of the application was performed over the last weekend in March along with procedures to perform an upgrade to approximately 600 authorised users. Problems were experienced, however the majority of users were able to upgrade with little difficulty. The large number of varying PC configurations contributed greatly to problems being experienced. There are currently staff using Citrix, Windows 95, Windows 98, NT and Macintosh. The university is continuing to seek advice and solutions from the software suppliers for both Finance 1 and ProMaster.

All requests for support that have been lodged with IESD to date have been resolved. Staff experiencing problems in performing the upgrade should lodge a support call with the IESD Call Centre on 7022.
Rekindling the voice of hope

East Timorese radio network Radio Falantil—the only one broadcasting to the local communities before and after the ballot for independence—is well on the way to becoming the Voice of Hope with support from the university.

The newly named Voz de Esperanca (Voice of Hope) is to receive equipment, training and expertise from the Department of Communication and Media Arts. Lecturer Trevor John initiated the partnership after hearing of Voz de Esperanca's attempts to become a mainstream station.

"We are in a strong position to help their cause—we have the expertise, the training materials, and, with our move towards digital production systems, functioning but surplus equipment that lends itself to such an operation," he said.

After discussing the idea with the Head of Communication and Media Arts, Lynette Sheridan-Burns, it was decided that support could be offered in the following ways:

- the donation of two Revox tape recorders, two Consolidated Electronics cart machines, a Tascam mixing console/eight track tape recorder and several boxes of open reel Ampex recording tape;
- highly skilled staff from the Department have been added to a database of people with training, research and professional media expertise. It's possible they could visit East Timor to conduct training workshops, and that East Timorese representatives could attend intensive training in radio and video production and journalism at the university;
- training materials used in the Communication Studies degree have been repackaged and sent to Dili.

Contact with Jim Mellor, East Timor Media and Communications Officer for Australian People for Health, Education, and Development Abroad Inc (APHEDA), which is coordinating the project to establish the infrastructure needed to commence transmission, cemented the deal.

The equipment was tested and packed, leaving for the journey to East Timor at the beginning of May.

Join thousands of Australians in an historic walk for reconciliation across Sydney Harbour Bridge on Sunday 28 May as part of Corroboree 2000.

Concerts at Darling Harbour will feature top Australian performers. Meet outside North Sydney Railway Station with first walkers leaving at 8am. For information call 1902 210 001. Check for updates at www.reconciliation.org.au, in newspapers and on radio. Bring your bells and whistles!
All the excitement of a nursing degree

Diversity and excitement were qualities Fiona Cooper wanted in a career. After being winched down from a helicopter to rescue an injured sailor from the hold of a ship, testing her newly learned Spanish skills while working at a clinic for Mapuche Indians in Chile, and dealing with trauma and medical emergencies at the John Hunter Hospital, Fiona says her career path has been everything she had dreamed. She graduates with her Bachelor of Science in today's workforce. Undertaking a university degree, Fiona says she realised the need to update and broaden her skills and the importance of a tertiary education in today's workforce. Undertaking the nursing degree has raised her confidence level, improved her assessment skills, and opened up a whole new world of career possibilities.

"I had a lot of experience and knowledge before studying, but getting the degree has been the best thing I ever did. My confidence has improved and my time management skills are much more developed. I have benefited from learning about, and working with, people with mental health problems, and I understand the importance of research in delivering up-to-date treatments."

Fiona was one of four nursing students chosen to travel to Chile for three months on a University of Newcastle scholarship. She had lessons to learn Spanish and worked with the Mapuche Indians in a hospital in the south of Chile, as well as other indigenous Chileans in the remote desert area of the north.

"I learned to respect their way of doing things," she said. "Our cultures are so different, yet we learned from each other."

While Fiona, who made the Dean's merit list several semesters consecutively, was at first intimidated by university study, she is glad she took it on. She chose to study at Newcastle because of its location as well as its reputation for problem-based learning. "Although it seems like a long haul, the benefits are amazing and it is really worth the effort," she said.

Whether she chooses to specialise in intensive care, or emergency, or remote care in the outback or in the Third World, or considers a role as an educator for the ambulance service, studying nursing has provided Fiona with so many options she feels that the world is truly her oyster.

Campus and Facilities News

Life Sciences Building

Users of the Ring Road will have noticed that the road between the Medical Sciences Building and the Auchmuty Library has occasionally been blocked over the last few weeks as work on the Life Sciences Building progresses down the site. It will be necessary in the coming weeks for the road to be closed for extended periods to allow the delivery of building materials. Both the building contractor and PFE staff would like to thank the University community for their tolerance in this matter and ask that they take care when driving in the area and to be aware of the advisory signs indicating road closures as well as observing all road and speed signs. A new 120 seat lecture theatre that formed part of this project has been completed and will be ready for use in second semester 2000.

Student Services Centre

Building work on this project has almost been finalised and it is anticipated that the building will be handed over to the University for the "fitout" of carpets, blinds and furniture by mid May. Landscape work and the provision of car parking will also have to be carried out. A staged relocation of staff will commence from the middle of June and it is hoped that the building will be fully operational for the start of second semester.
Staff of IESD took part in an open forum on the role of technology in staff development with Dr. Peter Kandlbinder on 31st March. Dr. Kandlbinder is a lecturer at the Institute for Teaching and Learning with the University of Sydney. He has worked in a number of fields including desktop publishing and video production and now concentrates on the enhancement of teaching and learning though the use of learning technologies. Dr. Kandlbinder has been instrumental in the development of the IIT’s on-line learning programs including the Postgraduate Supervisors Development Program, which has over 120 registered academic staff. He is currently on sabbatical visiting academic development units in Australia and the UK to investigate the use of flexible modes of learning for the professional development of academic staff.

During the forum, Dr Kandlbinder discussed his recent research findings and shared his views on issues in staff development in universities. He observed that in Australia at the moment, on-line technologies are used within academic departments at a simple level, since academics did not necessarily wish to be seen as being at the cutting edge of technology. Faculty and departmental web-sites are largely confined to general information and mission statements. Dr. Kandlbinder remarked that academic units are not finding on-line learning and on-line discussion forums very successful. Similarly he found that, excepting universities such as Sydney and Monash, technology is not generally being used to educate staff.

There was an interesting discussion amongst those present on the ethos of on-line learning and the factors that seem to be constraining its development within Australian universities at the moment.

Delivering computer-based training to the world

On 23rd March the Media Design, Production and Publication Program (MDPP) of IESD gave a demonstration of their most recent computer-based training project.

The first of a series of four CD-ROMs, Advanced Personal Trainer, is an engineering title for use by line-operators in international steel and aluminium rolling mills in the USA, Europe and Australia. It is designed to teach the essential concepts and principles of flat-rolling to people with a non-engineering (i.e. non-professional) background and features extensive use of video and animation, including a full assessment quiz, administration and class reporting functions. Foreign language versions are planned.

The project represents a significant partnership between the MDPP and the Newcastle-based engineering firm Industrial Automation Services (IAS). This two-year relationship began with the identification by IAS of a major need in the sector and a request being made to the university for assistance. MDPP’s involvement has included project management, interactive design and mapping, screen design and layout, programming and database management, advertising and packaging. It has also included the sharing of skills and techniques with IAS personnel in some of these areas, with the view to IAS staff taking on more of the programming and management role.

The benefits of such an innovative partnership with a commercial organisation have flowed back to the university in the form of shared programming and management skills from IAS. This has contributed to both the skill base of MDPP personnel as well as their ability to operate and deliver in a commercial context. Both IAS and MDPP expect the consultation and partnership in this learning process to continue throughout the next year.

At the demonstration, Project Manager Greg Boddy spoke about the process of design, the challenges, the tools and the skills utilised. The product was developed using Macromedia Authorware software and SQL to access a Microsoft Access database. The database controls student access to lessons and tracks their progress. It also defines the lesson content and presentation order. This makes adding new lessons and creating subsequent CDs relatively simple.

Whilst this project utilises CD-ROM technology because of its rich media content, the use of Authorware means that it could also be delivered via the World Wide Web. For further information please contact Greg Boddy on extension 8608 or email: mkgab@mail.newcastle.edu.au Terri Nowak, MDPP

Support Centre

IESD’s telephone support centre began operating on Monday 1st May. The centre will field enquiries for Desktop Services, Networks, Educational Technology Services, Computing Services and the CT Information Desk.

Extension 7000 has replaced the service request numbers 7022, 5344, 6699, 6697 and 5382. When you call extension 7000, an operator will log a service request into a call tracking system or refer you to the appropriate person. The centre will operate for a twelve month trial period and we will be seeking feedback from our customers during this time. If you have any queries regarding this new service please contact the operators on ext. 7000.
The council on 13 April 2000 amended the Academic Dress Rule to limit the introduction of new hood colours for awards at the level of Master and Bachelor, and to approve academic dress for the following awards: Doctor of Architecture, Doctor of Nursing, Bachelor of Aboriginal Studies, Bachelor of Biomedical Science and Bachelor of Biomedical Science (Honours), Bachelor of Medical Radiation Science, Master of Management Enterprise, and Master of Resources Management.

Rules Concerning Student Discipline in Halls of Residence: The Rules were amended to revise the Appeals process. The following Rule was amended by the Council on 3 March 2000:

**Doctoral Degree Rules:** Schedule - Doctoral Awards Which May Be Confirmed Honours Causa - Schedule amended to add “Doctor of Architecture” to the list of degrees that may only be conferred Honours causas.

The following Rules have been made, amended or rescinded by the Council on 13 April 2000:

**Rules Concerning Deans and Other Faculty Officers** - Rule amended by the addition of the President of the Academic Senate on the selection committee for the appointment of a Dean.

**Academic Dress Rules:** Rule amended to limit the introduction of new hood colours for awards at the level of Master and Bachelor, and to approve academic dress for the following awards: Doctor of Architecture, Doctor of Nursing, Bachelor of Aboriginal Studies, Bachelor of Biomedical Science and Bachelor of Biomedical Science (Honours), Bachelor of Medical Radiation Science, Master of Management Enterprise, and Master of Resources Management.

**Rules Governing Undergraduate Academic Awards:** Schedule – Bachelor of Fine Art; Schedule amended to recognise that the program is offered by the Faculty of the Central Coast as well as the Faculty of Arts and Social Science. Schedules for Bachelor of Teaching/Bachelor of Arts; Bachelor of Teaching/Bachelor of Fine Art; Bachelor of Teaching/Bachelor of Music; Bachelor of Teaching/Bachelor of Health and Physical Education; Bachelor of Teaching/Bachelor of Science; Bachelor of Teaching/Bachelor of Social Science; Bachelor of Teaching/Bachelor of Design and Technology; Clause 2 of each Schedule amended to read: “To qualify for the award of the double degree a candidate shall pass subjects approved by the Faculty Board, totalling not less than 320 credit points comprising 180 credit points of Group 1 subjects (defined as “subjects offered by the Faculty of Education for the purposes of satisfying the requirements of the double degree”) and 140 credit points of Group 2 subjects (defined as “subjects offered by other Faculties of the University and deemed appropriate by the Faculty Board for the purpose of satisfying the requirements for the double degree”). Schedule – Bachelor of Science (Professional); Schedule amended to note that there will be no further admission to the course from Semester 2, 2000.

**Rules Governing Postgraduate Coursework Awards** Schedule – Master of Resources Management - New Rule - Course disestablished and Schedule rescinded.

The following items are available for sale by tender:

**Item 1:** Large, free standing, lockable, glass fronted display cabinet. 3050mm (10ft) long x 2041mm (7ft) high x 770mm (2'6") deep (Marked A located outside HA49)

**Item 2:** Large, free standing, lockable, glass fronted display cabinet. 3050mm (10ft) long x 2041mm (7ft) high x 770mm (2'6") deep (Marked B located outside HA49)

**Item 3:** Printer; Kyocera FS-3600 S/N AU5900539 Asset# 120665-00

**Item 4:** Colour Printer; Tektronix Phaser 340 Asset# 119259-00

**Item 5:** Printer; Dataproducts LZR 1580 3 Bin Asset#117654-00

For further information please contact Lorraine Alley ext 5202.

The goods are sold in “as is” condition and the university reserves the right to reject any or all tenders. Tenders close on Wednesday, 31st May, 2000 at 3:30pm and should be forwarded to the Finance Officer - Assets, Financial Accounting, The University of Newcastle, University Drive, Callaghan 2308. Please mark clearly on the envelope “TENDER 02/00”.

Available for charter:

- 19 passenger Deluxe Minicoach with fully accredited driver for that special event.
- Or take a tour with Ken to see some Aboriginal sites within the Hunter region. For further information phone Lets Go Destinations on 02 4981 7012.

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**Rules Governing Master Degrees by Research:** Schedule – Master of Social Science (by research): Schedule amended to enable the Master of Social Science by research program to be offered by the Faculty of the Central Coast as well as the Faculty of Arts and Social Science Schedule – Master of Arts (by research): Schedule amended to enable the Master of Arts by research program to be offered by the Faculty of the Central Coast as well as the Faculty of Arts and Social Science, and to note the discontinuation of the Master of Arts by coursework program in the Faculty of Arts and Social Science.

**Coursework Postgraduate Programs:** Schedules – Master of Arts (by coursework), Graduate Diploma in Language Studies, Master of Theatre Arts; Master of Psychology (Educational); Graduate Diploma in Management; Graduate Diploma in Industrial Relations; Graduate Diploma in Marketing; and Graduate Diploma in Information Science - Courses disestablished and Schedules rescinded Schedule – Graduate Diploma in Art - No further intake into this program.

**Rules Governing Undergraduate Academic Awards:** Clause 9(2) amended to read: “A student who believes he or she has a special case to permit enrolment after the HECS Census Date must make a case in writing to the Deputy Vice-Chancellor” Schedule – Bachelor of Science (Forensic) - New Schedule

**General Staff Discipline Rules** - Rule rescinded – superseded by Clauses 28-31 of “The University of Newcastle General Staff Enterprise Agreement, 2000”, which was certified in the Industrial Commission on Monday, 20 March 2000

**Inter-Residence Student Discipline Rules** - Rule rescinded – made redundant by consolidation of the administration of the Halls of Residence.

**Rules Concerning Student Discipline in Halls of Residence** – Rule amended by Vice-Chancellor to revise the Appeal mechanism (Clause 6). Noted by the Council.

**Traffic and Parking Rules:** The Rules were amended to bring them into line with the Road Transport Legislation.

**Rules Concerning Deans and Other Faculty Officers:** Rules amended regarding appointment of Deans, Acting Deans, Deputy and Assistant

**Deans Boards of Studies Rules:** Schedule – Board of Studies for Enabling Programs: Schedule amended to cover Yagup programs and all International programs conducted by the Enabling Programs Unit.

**Academic Dress Rules:** Rules amended to include academic dress for: Bachelor of Finance, Bachelor of Science (Biotechnology), Bachelor of Science (Biotechnology) (Honours), Bachelor of Science (Professional). Copies of the Rules can be obtained from the Office of the University Secretary and Registrar.
Health, Safety and Development

Working safely with electricity

A number of fatal electrical accidents at work result from contact with faulty equipment which has become live, or from contact with worn or damaged power cords or switches. The sad fact is, these deaths could have been avoided through measures like proper maintenance, regular inspection and using Residual Current Devices (RCDs).

At the university incidents involving electricity make up a relatively small fraction of the total reported. However, some of these have been quite serious in nature, with the potential to cause significant injury. There are a number of issues we should all be aware of to prevent these sorts of incidents from occurring.

If we start with the supply of electricity to buildings, the simple rule is that only qualified, and duly authorised, people should carry out work on our fixed wiring systems. At Callaghan, if you find that a power point is faulty or damaged, or if you think you need additional power outlets, submit a maintenance request (http://www.newcastle.edu.au/services/finance/Forms/PPE-MaintReq.htm). PPE will then coordinate the repair or installation using appropriately licensed electricians. At the Central Coast campus, you should contact Finance and Estates, whilst at other locations you will need to coordinate this with the appropriate building maintenance group. Only licensed electricians should carry out work on fixed wiring.

The devices you plug into power points, or ask other people to plug in, are your responsibility. As a user or supervisor you should check that:

- there is no obvious external damage to the plugs or cords;
- the cords are secure in the plugs and the device and that no inner insulation or bare wires are visible;
- covers and guards are correctly secured so that no-one can accidentally make contact with live components.

If any of these situations exist, you should not use the equipment – it must be repaired before it can be plugged in and switched on. To protect other people, you should attach an “Out of Service” tag to the device’s plug until it has been made safe to use (contact PPE at Callaghan for details on how to get these). Ensure that a maintenance request is submitted to PPE immediately for repairs to be carried out.

As far as multiple outlet power boards go, you should also make sure that:

- you use power boards with overload protection;
- you don’t overload a power board (don’t plug high current devices like kettles and radiators into them; plugging one current board into another also runs the risk of overload);
- you keep the power boards out of harm’s way.

As part of ensuring equipment is safe to use, you may be aware that PPE commenced power lead and appliance testing and tagging at Callaghan last year, and are gradually working their way through the university’s vast array of plug-in electrical equipment. Some faculties are also undertaking their own appliance testing. The initial focus is on higher-risk equipment, such as portable power tools that must be tested more frequently, but eventually all non-fixed appliances will be tagged and scheduled for re-testing at the required interval. The records of testing are maintained in a central database.

When a retest is required, a potential problem for the tester will be finding the equipment again. To make their job easier work areas should maintain a list or register that provides information like the current location of their equipment.

These facets of our electrical safety system are designed to make sure that our equipment is safe to plug into properly installed wall sockets. We’ll try and cover other aspects of electrical safety in a later edition.

NEWS FLASH!! Chemweb is up and running! Check it out at http://locust.newcastle.edu.au/chem/

Next Month: An article from the new Manager, Health Safety & Development.

www.careerone.com.au

CareerOne has launched an education-dedicated recruitment website at www.careerone.com.au. The site currently includes more than 200 education-exclusive jobs aimed at primary, secondary, TAFE, VET and Higher Education educators and administrators. It also includes articles to help educators to improve their skills and career prospects.

what's hot

New appointments

Tina Crawford
Virginia Dabowy
Margaret Grant
Debra Harlow
Jodie McKay
Tiffany Rees
Todd Sergeant
Jason Sommer
Alison West

Human Resource Management Branch
School of Biological and Chemical Sciences Design
Central Coast Campus Student Services
Central Coast Campus Student Services
Vice-Chancellor’s Division
2NUR
Student Administration Unit
Student Administration Unit

what's on

Concerts at the Con
May/June/July 2000
For copy of program for lunchtime, afternoon and evening concerts please telephone the Conservatorium 4921 8905

Hunter Postgraduate Medical Institute Seminar series
June 17 “Rheumatology”
July 18 “Adolescent Psychiatry”
Dermatology meetings:
June 15 “Skin Cancers, Sun Damage & Other Lesions in the Elderly”
July 20 “Systemic Diseases”
August 17 “Difficult Examples of Common Conditions”
September 7 “Paediatric Problems Plus Difficult Problems”
Paediatric Meetings:
May 2 “Adolescent Sexuality”
May 16 “Emotional Abuse & Dysfunctional Families”
May 30 “Psychiatry-Adolescent”
June 13 “Growth & Puberty”
June 24 “The Abdomen, Septic Child, Surgery,Burns, Minor Procedures & Suturing”
June 27 “Asthma”
July 25 “Chronic Illness”
For information please phone 4923 6163 or 4923 6173

Are email messages official records?

Email messages are records if they are created, received and kept in the conduct of your business as a staff member of the university. For more information about the management, retention or disposal of records contact the Records Management Office (email: records@mail.newcastle.edu.au or telephone extensions 5206, 5246).

Visit the website and follow the links to Frequently Asked Questions - Email and Official Records: http://www.newcastle.edu.au/services/oustr/records/index.html

The RMO also develops and delivers staff development programs in records management.
Graduate artists on display

The university will be represented by four artists in a national graduate exhibition, opening in Perth this month.

The nation's best visual and fine art graduates are showcased at Hatched: Healthway National Graduate Exhibition. Newcastle School of Fine Art graduates Philip Flynn, Stephen Francis Garrett, Jane Farrah and Trevor Weekes will have their work shown in the exhibition at the Perth Institute of Contemporary Arts and in its nationally distributed catalogue.

The artists demonstrate the diverse range of interests and activities that take place in the School.

Trevor Weekes' work challenges the usual notions of art installation. Developing through his work are thematic ideas and works with text, re-enactment and reconstruction to present invented scenarios that suspend disbelief.

Jane Farrah creates atmospheric, evocative space with the subtle introduction of discreet objects and shifts in light, while Phillip Flynn's layered paintings captures a filmic sense of movement and change.

Steven Garrett's work occupies a more formal meditative space, with structures designed to resonate the body. Garrett said his work plays with the idea of passageways for the body and mind.

In its ninth year, the 2000 graduate show was launched on Friday the 11th of May at PICA. This year's show includes the works of 65 graduates from 17 Australian tertiary arts institutions, exhibiting until the 25th of June. Works of participating artists can be viewed through PICA's website at http://www.imago.com.au/pica.

The Hatched exhibition is accompanied by a symposium on Saturday 13th of May, which will address a number of issues relating to the tertiary arts educational sector, while providing artists, academics, and the community an opportunity to discuss their views. Guest speakers on this day include Su Baker from the Victorian College of the Arts, Noel Frankham from the University of New South Wales, and John Barrett-Leonard, freelance curator and writer.

An agreement between the Australian Bureau of Statistics and the Australian Vice-Chancellor's Committee will provide daily updated economic and social data to 37 universities, including Newcastle, via a new AusStats service. AusStat will be accessible over the internet.

Postgraduate physics student, Michael Gladys, has won a prestigious Fulbright scholarship to work at New Jersey's Rutgers University for 12 months from August. He will continue his studies in surface physics, learn new experimental techniques and will also work at an IBM research institute. The award is jointly funded by BHP Research and BHP's community programs. Michael will return to Newcastle in 12 months to complete his PhD.

Judith Golden, Head of the Department of Nursing Studies at the University of Sydney, was special guest of the History Department on May 17 when she delivered a paper in their Research Seminar series. Judith explored the arrival of the Nightingale nurses to Sydney and their subsequent segregation and development.

Dirk Moses from the University of Sydney spoke as part of the series on May 3. He discussed how the genocide debate in Australia is currently polarised and how government policy can change the treatment of genocide. To view the schedule and papers of upcoming speakers visit http://www.newcastle.edu.au/department/hi/home/whats_on.html.

Nigel Whitehead, Program Director of British Aerospace, was guest speaker at the Management Thinking seminar on May 10. The series aims to illustrate to business students and staff how successful CEOs develop philosophies, make decisions and succeed in their careers. To reserve a seat or for information call the Graduate School of Business on ext 8749.

Professor Robert Constable launched "Prayer Dances" at the Conservatorium on May 13. The CD, which features the Sydney Chamber Choir and Sprung Percussion performing compositions by Christian Heim of the Faculty of Music, combines ancient chant influences with a rhythmic, percussive drive and was recorded at the Conservatorium. For information call 4946 9771.
Marketing & Media Services is the strategic service centre for University marketing, including:

- planning marketing campaigns
- producing all materials such as brochures, booklets, posters, videos, websites, CDs, displays and any other materials used to promote the University and its faculties, centres and institutes
- all University advertising, including production of advertisements for print, television, radio and internet
- market research
- all media liaison for the University, its faculties, centres and institutes
- supervision of the University's corporate identity

In addition, M&M produces UNINEWS as well as core documents such as handbooks, annual reports, research reports and highlights; and M&M manages the University's advertising agencies.

All types of work shown above should be conducted through M&M in the first instance, however that doesn't mean we're uncompetitive. Each year we save faculties and the University in excess of $185,000 in printed materials costs alone! On average, depending upon the project, M&M can provide higher quality services and outputs for between 20% and 40% below market cost.

Marketing & Media Services has a great deal of experience in

- Marketing Planning and implementation
- Market Research
- Advertising - production, placement and account management
- Journalism and media management
- Copywriting
- Design services
- Publishing
- Materials production and production management in all media
- Public relations
- Editorial services
- Direct marketing
- List management
- Agency management

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