Gone to
ROTTNEST
UWA science students have become the first in the world to use a nanoSIMS microprobe facility for undergraduate research.

Blaire Coleman, a student in the School of Earth and Geographical Sciences (SEGS), is the first honours student worldwide to submit a thesis based on nanoSIMS 50 ion probe data.

And two groups of first year students, enrolled in the new nanotechnology 109 unit, have had a unique opportunity to take part in laboratory sessions with the facility at the Centre for Microscopy and Microanalysis (CMM).

Associate Professor Brendan Griffin, Director of CMM is Associate Director of the NANO-MNRF (Major National Research Facility), the only NanoSIMS 50 ion microprobes in the southern hemisphere and only the tenth in the world.

“At Oxford University, only post-graduates have access to the facility, and the same would be true of the other facilities,” A/Professor Griffin said.

“But why keep the excitement of these technologies from the young students? Allowing, in fact, encouraging, their access shows the world that UWA is willing and able to put this type of technology into its entry-level programs. It is part of our desire to produce the highest quality graduates, with cutting edge experience.

“It also supports the State Government’s contribution to the facility (more than a million dollars through the Centres of Excellence in Science and Innovation).”

A/Professor Griffin said 18 first year students had a ‘play with the new toys’ in four laboratory sessions during the final fortnight of the academic year. Next year, as second years, they will participate in some short experiments which will be part of real work being carried out with the microprobe.

“They will help to collect data and write practical reports. It will be challenging for them to be involved in real science experiments at the nanometre scale: a great opportunity for a great bunch of students,” he said.

A/Professor Griffin was also delighted that earth sciences Honours student Blaire Coleman was able to conduct her research project using the nanoSIMS facility – a world first.

“Blaire was the top chemistry and geology student in her third year and she wanted to do a chemistry-heavy geology project for her Honours project, so the nanoSIMS provided a great opportunity for her.”

Jointly supervised by A/Professor Griffin, Dr Neal McNaughton (SEGS) and SIMS analysis specialist Dr Richard Stern (CMM), Blaire chose a project to compare oceanic conditions of 1.7 billion years ago, and today’s conditions.

She used the nanoSIMS facility to compare them, through the chemistry of exotic minerals that form during consolidation of sediments into rocks.

With her experiments, she was able to compare the ocean chemistry of the two periods.

“An important aspect of her research was to understand how this process of consolidation occurs, as dating of these exotic minerals is critical to the exploration for old petroleum reservoirs,” A/Professor Griffin said.

“The growth is very complex and nanoSIMS is the only technology that has the sensitivity to look at the nanometre variations. The results were excellent. Blaire’s data is fantastic and we are confident she will get first class Honours.”

The nanoSIMS facility has been in use at CMM for just over 12 months, broadening the opportunities for nanoscale research across disciplines including earth sciences, biomedical areas and agriculture. It allows scientists to look at sub-cellular levels with the high resolution scanning ion microprobe, whether they are studying biomedical materials or mineral samples.
Nanotechnology on show

The nanoSIMS facility was the centrepiece of a recent workshop showcasing scientific success in Western Australia.

The workshop was to provide both WA biomedical researchers and MNRF staff opportunities to establish national links. The seven Major National Research Facilities showcased represented Commonwealth funding of $76 million.

The workshop, the MNRF Roadshow, was hosted by UWA, held at the Clinical Training and Education Centre (CTEC) and chaired by A/Professor Brendan Griffin.

He gave a presentation on the nanoSIMS and the national infrastructure for biotechnology and Nanotechnology innovation.

Also presenting their UWA groups’ research were:

- **Professor John Considine** (Plant Biology) and his group’s wine MNRF;
- **Professor Peter Klinken** (WA Institute for Medical Research), on their use of new technology in the characterisation of novel cancer causing genes;
- **Professor Assen Jablensky** (Psychiatry and Centre for Clinical Research in Neuropsychiatry) on research into the genetics of neuropsychiatric disorders in WA;
- **Professor Nigel Laing** (Centre for Neuromuscular and Neurological Disorders) on genetic muscle diseases of the newborn; and
- **Dr Fiona Wood** (RPH Burns Unit).

Dr Wood was arriving in London at the time of the workshop, but she had prepared a 20-minute video presentation on the quest for scarless healing, and joined the delegates by telephone for questions after the video was shown.

“It reflected her status as a national living treasure, getting off the plane and onto the phone, to take part in this important showcase of biotechnology research,” A/Professor Griffin said.

“It was an important merging of research and industry. And the Honourable Julie Bishop MP, in opening the day, commented on the astonishing depth of scientific talent in WA.”
The increasing number of attempts to establish the relative rankings of universities (internationally and in Australia) may be both a blessing and a curse for many higher education institutions.

The reality is that rankings – and more and more of them – will be a part of our future. And we need to consider that regardless of how accurate (or otherwise) they may be, they create expectations and perceptions which can influence students, staff, collaborators, supporters and the wider community.

For me, the most important aspect of any ranking is our ability to interpret the results so as to better understand why we are ranked where we are. Rankings must be transparent; they must have defined criteria and they must have identifiable data sources.

The most recent rankings – one international and one national – highlight some of the best and worst elements of such exercises.

For example, the recent world rankings by The Times Higher Education Supplement used ill-matched criteria, and an irrational methodology skewed towards universities with large numbers of international students on the assumption that a university’s ability to attract international students is an indicator of quality. In fact, this is more likely to be a result of revenue strategies, entry standards or marketing.

But at the same time, The Times ranking did confirm our concern that outside our nation and our region, our academic and research performance far outweighs our international reputation. Our research score was equal to or higher than 12 of the top 50 universities in the world, but our reputation (recognition internationally) was significantly lower.

Further than this, it was difficult to interpret the results. As well as obscure methodology, there were areas where incorrect data appeared to have been used.

On the national scene, the latest Australian rankings done by Melbourne Institute of Applied Economic and Social Research (The University of Melbourne) provided a much clearer picture of Australian universities based on a ranking with clear data and process.

This ranking again confirmed our concerns about reputation where we were ranked second on research performance and third overall (adjusted for the size of the institution), but seventh in terms of the subjective assessment of our international standing by leaders of overseas universities.

Most notable in the Melbourne ranking was the fact that in terms of the quality of undergraduate programs, we were ranked first in Australia (based on staff-student ratios, progression rates, continuation into higher studies and student evaluations).

This is a very important measure for our university – given our high intake of undergraduate school leavers.

We should never be driven by rankings, but we should welcome those which withstand robust analysis and interrogation which we can use to inform our progress towards achieving international excellence in all we do.

Throughout 2004, it is clear that on the basis of both external and internal measures, the University continued to deliver very positive outcomes across teaching and research areas.

This is an outstanding reflection on our staff — at all levels and in all areas. With your support, the University continues to accept the challenges presented by a constantly changing operating environment, delivering benefits for our students and the wider community.

I thank all staff for their efforts through the year and wish you all the best for the festive season ahead.

Alan Robson
Vice-Chancellor
Native trees are dying out all over the world. Plant biologists around the globe are trying to find out why. But so far, there has been no obvious pattern identified in the widespread decline.

Graduate plant pathologist Ryan Hooper is trying to diagnose what is causing the decline of the Wandoo population of Western Australia, but says his work is made more difficult because the historical records of these trees are so thin.

As part of his PhD research, Ryan attended and presented his work to a world gathering of phytopathologists in the United States and visited Alaska where the native yellow cedar is on the decline.

“They have good tree histories there so it is easier for them to study this phenomenon,” Ryan said. “Not knowing about previous declines or patterns of development makes it hard.

“We don’t even know just how much of our native tree population is on the decline. All we have is anecdotal evidence, and what we can see, that large proportions of the trees are affected.

“It’s important for the community to hear some figures, so they can understand the seriousness of the situation. I believe CALM is working on getting some figures out when they can.”

The big white-barked Wandoo had been a childhood favourite of Ryan’s, so when he heard of the concern of the people of York for the dying wandoo in their region, he was eager to help.

“Wandoo is spread very widely across WA, in a huge belt from Toodyay to Mount Barker, all the way across to Corrigin. But sadly, it took me nearly six months to find a completely healthy stand of trees to use as my control.”

Ryan said the trees start to die back with a crown contraction, that begins with the tips of the branches dying. It then spreads slowly through the tree and can take up to 20 years for the tree to decline to the point of dying completely.

“During my honours year, I identified organisms in the wandoo canopy, which have taken me down the insect road.

“But it appears the diagnosis is more complex than just attack by insects and there is likely to be a fungal component adding to cause of branch decay.

“The big question is the role environmental conditions are playing and how these differ from year to year, resulting in sick trees standing right next to healthy trees. There are also some stands that appear to be recovering from sickness.

“Eucalypts are so hardy it doesn’t make sense that they are declining. They are the dominant species throughout Australia, so you would think they would be well adapted,” Ryan said.

He said the decline in Wandoo was most widespread and severe among eucalypts, with tuart and marri not suffering so badly, but still affected.

He is concentrating currently on wood boring insects after finding what he believes is evidence of their attack in branches from affected trees. He spoke to experts on wood borers at the conference in the US.

Ryan is focussing his work on wandoo in the Mundaring catchment areas, west of York. “The people of York are very concerned and are happy to provide accommodation for me while I’m doing field work.”

His work is being supervised by Professor Krishnapillai Sivasithamparam and Dr Bryan Shearer from CALM, WA’s premier native plant pathologist.
The University has had one of its most successful rounds of ARC grant applications.

A total of $18.6 million has been awarded by the Australian Research Council for research at UWA in 2005.

Pro Vice-Chancellor Professor Doug McEachern (pictured) said the ARC Discovery grants were the most lucrative UWA had been awarded.

The 38 Discovery grants totalling $13.68 million include: $690,000 over five years to Professor Leigh Simmons, recently appointed Federation Fellow; $1.225 million over five years to ‘green chemist’ Professor Colin Raston; and, $913,000 over five years to physicist Professor Mike Tobar.

Professor Simmons is studying sperm competition and the evolution of ejaculates; Professor Raston is working on integrated self assembly processes and spinning disc technology; and, Professor Tobar on new high precision tests on the standard model of physics and relativity.

A $2.8 million package of five ARC Linkage Infrastructure Grants to UWA includes the establishment of a new super computer that will benefit the State.

The construction of the super computer facility forms part of the Interactive Virtual Environments Centre (IVEC) collaboration supported by the State Government.

IVEC supports an access grid node that that links up with hundreds of nodes internationally. Business, industry, government and higher education institutions that don't have their own access can hire the IVEC facilities and take advantage of the latest super computer. This Access grid room has already been used by researchers and government officials for meetings to support a whole range of research projects, many of which are relevant to industry.

Professor McEachern said the community of Western Australia could take pride in the substantial increase in research funding attracted to the State by UWA. “The University has attracted two thirds of Discovery Grant dollars awarded to WA, ninety per cent of Linkage Infrastructure dollars, including our bid to establish a new super computer, and fifty per cent Linkage Project Grant dollars where we work with industry. “This substantial level of research funding attracted to the State is a reflection of the high quality research being carried out by high quality staff at the State’s premier research institution. More importantly, the level is on the rise,” he said.

Medical researchers at UWA, including the WA Institute of Medical Research (WAIMR), enjoyed a morning tea at the Faculty of Medicine and Dentistry to which donors and representatives of bequests were also invited.

More than 30 separate medical research projects are funded at UWA by private donations and bequests.

Two researchers, Professor Lyle Palmer, and Associate Professor Sergio Starkstein, talked briefly about their work. Among Professor Palmer’s projects is an investigation of the genetic epidemiology of asthma and Type 1 diabetes and he was delighted to be able to tell the benefactors that his team had achieved a significant breakthrough recently in the genetic indicators for asthma.

A/Professor Starkstein is working with Professor Osvaldo Almeida in the School of Psychiatry and Clinical Neurosciences on a program to improve the neuroimaging laboratory for imaging research of the brain, and into diabetes, hypoglycaemia, cognitive disorder, Parkinson’s disease and Alzheimer’s disease.

Retiring Dean of Medicine and Dentistry, Professor Lou Landau, thanked the benefactors for the generosity.

Professor Peter Klinken, Director of WAIMR and the Centre for Medical Research, talked to benefactor Dorothy Ransom about the cancer research in which his group is involved. Mrs Ransom represented the S.E. Ohman Medical Research Fund, which also contributed this year to research being conducted by Professor Peter Hartmann, Professor David Day and Professor Roy Goldie.
The best way to approach safety and health in the workplace is by being proactive.

But sometimes, employers are faced with an existing safety or health problem, and the way they deal with it is just as important to the well-being of their staff.

A new category in the UWA Safety Awards this year was the Rehabilitation Award. It is to acknowledge staff who have demonstrated remarkable support and assistance in helping employees with their return to work following an injury or onset of a medical condition. The returning employee's injury or medical condition need not be work-related or involve workers' compensation.

The inaugural winner was UniPrint, for dedicated support of an employee who returned to work after a car accident in 2003. Uniprint management approved three months off work, then another two months part-time work before the employee could work again full-time.

They provided alternative duties and showed flexibility in adapting work practices to accommodate the injured staff member. Management reviewed all manual handling tasks and invested in equipment such as trolleys and an automatic guillotine, which made all the staff's work easier, not just the injured person.

The citation for the award, presented by Deputy Vice-Chancellor, Professor Margaret Seares, said Uniprint management and the staff member's colleagues were supportive and offered reassurance over many months. They demonstrated a caring attitude at all times, collectively and individually.

While recovery was protracted, the unit maintained a positive outlook, which boosted the staff member's motivation and enthusiasm to return to work.

The Individual Safety Award was won by May Bond, from the Graduate School of Management. May has been a safety and health representative for more than a year and a member of the University Safety Committee since June this year.

Her citation said that May had prepared a GSM safely manual and ensured new staff and students received a safety induction.

She carries out workplace assessments regularly and proactively attends to or provides advice on safety-related issues such as ergonomic equipment.

May was instrumental in diplomatically solving a problem in the GSM this year that involved students wanting to smoke on the balconies, which offended staff in nearby offices.

The University Library won the Group Safety Award. They have five safety and health representatives among 155 full-time and part time staff and 60 casual workers.

The Library has its own active safety and health committee and budget commitment for safety and security. It regularly reviews safety and health policies and procedures; runs a safety induction program for new staff; conducts workplace inspections; has a program of regular replacement of ergonomic chairs; and implements many safety related programs, including a manual handling risk management plan, and testing and tagging of portable electrical equipment.

UWA's Safety and Health Office runs the Safety Awards every year and the winners receive book vouchers from the Co-op Bookshop.

Professor Seares said the Health and Safety Committee and the award program was one of the responses to legislative requirements that has been a real success.

“For once, a reporting requirement has become a real positive for the University,” she said.
Many elements in a life of chemistry

Bright students, academic vigour, large staff numbers and thriving departments burn bright in the memories of three retiring chemists.

Between them, Associate Professor Graham Chandler, Associate Professor Dieter Wege and Dr Frank Lincoln have been at UWA for nearly 120 years.

Dr Lincoln came straight from school as an undergraduate, stayed to complete his PhD and joined the staff in 1960. A/Professor Wege came in 1968 and A/Professor Chandler in 1970. Both of them had come from Adelaide via London, where they had post-doctoral positions.

The three long-serving staff members were guests of honour at a gala dinner recently to celebrate their retirements. Also honoured were other long-serving colleagues from Chemistry, Brian Figgis, who retired three years ago, but still comes in once a week (and was at the dinner), and Jack Harrowfield, who also retired a short time ago, but who is now working overseas and was toasted as an absent friend.

Dieter Wege retired earlier this year, just after his 64th birthday.

“But I’m still here most days – I can’t resist pottering in the lab,” he said.

“Of course, in the modern era, one should be more entrepreneurial. I should be out there raising money, not pottering around with experiments!”

He said that in the heyday of science, the 1960s and early 70s, universities operated on the principle of supporting academic endeavours. “But now the system seems to focus more on the economic aspects,” he said.

When A/Professor Wege came to UWA in 1968, there was a separate department for his specialty, organic chemistry.

“Then in 1991 we amalgamated with the other areas of chemistry, and now our discipline is just part of a school. We have gone from 20 to 10 academic chemistry teaching staff in just eight years, but our student numbers are essentially the same.”

The best part of his 36 years at UWA has been interacting with bright students. “There are always several that stand out from the sea of faces in first year, and you get to know them better as they go through. “It’s what I will miss most of all, that sharing of intellectual stimulation with young people.”

A/Professor Wege, who is now an honorary research fellow, is still supervising a PhD student, who will finish her doctorate in about 18 months. “I still have some things I want to write up, so I’ll be around for a while, but the best thing is that now I don’t have to go to staff meetings!”

Although virtually his entire career has been at UWA, A/ Professor Wege has spent some time in the United States, where, he says, education is more valued than it is in Australia.

“They are willing to pay high fees for university education in the States because they know they will earn enough to pay it back easily. Here, it is more difficult to get financial rewards for higher education. In Australia, it’s probably better to become a real estate speculator than choose an academic career.”

He said that, in the mid-1970s, things became tight for Australian scientists, and quite a few PhD graduates ended up as bureaucrats in Canberra instead of becoming academics or researchers.

“I sometimes wonder if that’s why the universities are being treated so badly these days!” he said.
The excitement of science

Frank Lincoln has always loved “setting people alight”.

But only in the metaphorical sense. “I love exciting people about science, and chemistry in particular. It gives me a lot of pleasure,” said one of the University’s longest-serving staff members.

Dr Lincoln still shares his joy of learning with his graduate students. “My area of teaching and research used to be called solid state chemistry. Now it’s materials science. It’s a multi-disciplinary area that covers chemistry, physics, maths and engineering which. I try to cover it from the chemical perspective.”

After his undergraduate degree and his PhD in chemistry at UWA, Dr Lincoln was asked to join the staff as a graduate assistant (or tutor). “It was the equivalent of a tutor’s position,” he said. At that stage, 1960, Chemistry was still housed in its original limestone building, which is now the home of the discipline of geography in the School of Earth Sciences.

“We moved into the ‘new’ chemistry building in 1963, when I was promoted to senior tutor,” Dr Lincoln said. Now that ‘new’ building is the old chemistry building and Dr Lincoln is not looking forward to sorting out nearly half a century’s books and papers before the move to the new building.

“I have an honorary research position, and I won’t have the same amount of space in the new building, so I’ll have to throw a lot of it out” he said.

He wouldn’t be head for quids

Graham Chandler knows precisely what’s involved in being an honorary research fellow.

“It’s what I’ve been doing for the past several years!” he said.

The Associate Professor of Chemistry intends to become an honorary research fellow after his retirement on his 65th birthday last month. But since 1996, he has been working only one-sixth of a full-time appointment.

“I’ve been here, working every day, just as I have been since 1970, but only being paid a sixth of my former salary.”

It was after a stint as Head of the Department of Chemistry that A/Professor Chandler decided he wanted more time to do research and just “think”.

A/Professor Chandler did his PhD in organic chemistry in Adelaide, then went to London for his post-doctoral research, where he changed the direction of his career, from organic to theoretical chemistry.

“It was an enormous jump. I’d always been interested in theoretical chemistry, but there was nobody in Adelaide who was doing it at the time I was doing my PhD. So I completed my work in organic chemistry before I made the change.

“I was a tutor at Currie Hall for 13 years, up until last year, and I encountered a lot of students who, when they changed their minds about a course, couldn’t see the point in finishing what they started, before taking off in another direction.

“I have always been glad I finished my PhD in organic chemistry, before opting for the theoretical side.”

After London, A/Professor Chandler worked in the new research school of chemistry at the Australian National University. “But the contracts at ANU were only short term and, as the 1970s approached, jobs for scientists were becoming scarce, so I jumped at the job of lecturer when UWA offered it to me.”

He has spent a lot of time working with experimenters on determining the distribution of electrons in molecules, using, among other methods, X-rays.

“There are more theoretical chemists now at UWA than I’ve ever worked with in my entire life (there are three instead of just one!) so I’ll be hanging around for some time, to take advantage of that,” he said.

A/Professor Chandler is also thinking about doing some work with moths. “Soon after I arrived in WA, I came across an unusual moth – it had pale pink wings and a gold body – and I took it to the museum. I had always collected butterflies and moths, and when they heard of my interest, they asked me if I would like to come and work on their moth collection because they didn’t have anybody to do it.

“I’m thinking of taking them up on the offer now … 33 years later!”
Consideration for cleaner commuting

Professor Margaret Seares took the first step, last month, towards more environmentally-friendly driving at UWA.

Transport and Environment officer Naomi White arranged for the Deputy Vice-Chancellor to test drive a Toyota Prius hybrid vehicle. For two days, Professor Seares drove the new car, which combines an electric motor with a petrol motor, uses half the amount of fossil fuel and creates half the emissions of a purely petrol-driven vehicle.

“It was an interesting experience, trying out Toyota’s new hybrid car,” Professor Seares said.

“It ran very smoothly, and there is a sense of holiness about driving a car that is creating less damage to the environment!

“It was certainly different driving a car with no gear shift (the gear ratio changes continuously and smoothly) and which started at the press of a button. The car has both a better turning circle and more comfortable seats than my current vehicle, and the small bonnet (courtesy of the small engine) means parking in confined spaces is very easy (please, no jokes about women drivers not being able to parallel park).

“All in all I would give it serious consideration next time I change over my car,” she said.

Toyota representative Nic Marston (pictured) with Professor Seares when he delivered the car said the Prius used just 4.5 litres of petrol to drive 100 kilometres around town. “This compares with 9.5 litres for a Camry (equivalent size) and about 13 litres for a Ford Falcon,” he said.

Diverse projects win funding

Five projects across campus have shared in the 2005 University’s Diversity Initiative Fund.

It was established to encourage targeted diversity projects which enhance equity for students and staff. In the ten years that this initiative has been running, more than 50 projects have been funded, some of which have become ongoing programs. The 2005 recipients are:

**Tricia Wylde**, Health Promotions Officer — Medical Centre, Student Services. Mental Health First Aid Instructor Training ($4,700)

The objective of this project is to build the capacity within the University to promote positive mental health and well being in a coordinated and collaborative way.

It will enable three members of staff to attend a training program developed by the Centre for Mental Health Research, which will accredit them to conduct the Mental Health First Aid Course.

**Grant Revell**, Senior Lecturer, Faculty of Architecture, Landscape Architecture and Visual Arts — in association with the School of Indigenous Studies (Fitzroy Crossing + UWA Community Education Programme, “The Nyanangarri Project” ($3,000)

The objective of this project is to develop an on-going community based outreach educational program between UWA and the University of NSW design students and staff and the Fitzroy Crossing Indigenous communities. It will focus on genuine collaborative cross cultural environmental design learning initiatives

**Dr Renu Sharma**, School Manager, School of Plant Biology. Variety is the spice of life: Let’s add some to enrich our learning experiences ($2,000)

The project will be run during the annual Postgraduate Summer School. It is to encourage international and local students, particularly postgraduates, in the Faculty of Natural and Agricultural Sciences to share their experiences and assess how international students have added to the learning experiences of local and interstate students enrolled at UWA.

**Siri Barrett-Lennard**, English Language and Study Skills Adviser, Student Services. SmARTS access – bridging the gap ($3,000)

The objective of this project is to provide the opportunity for high school students from low socio economic backgrounds to participate in SmARTS, an innovative community outreach program which has been nominated by the University for an Australian University Teaching Award.

The fund will provide scholarships to 50 students from schools under represented at UWA, to cover 50 per cent of the costs incurred by participating in the SmARTS program.

**Dr Tanya Dalziell**, Lecturer, School of Social and Cultural Studies, Faculty of Arts, Humanities and Social Sciences, Language and Cultural Exchange Program: Postgraduate Students ($2,300)

This project is to assist up to 80 commencing postgraduate students from culturally and linguistically diverse backgrounds to participate more actively in campus life by developing a program that facilitates their interaction and continued contact with locally born students.
A rich background and a broad education result in a well-rounded person.

In the case of accounting student Tim Martino, they have also resulted in the award of Global Achiever from the Institute of Chartered Accountants in Australia (ICAA).

Before choosing to study a Bachelor of Commerce, majoring in accounting and finance, Tim began a combined Arts/Law degree.

“But I found law a bit stuffy, so I concentrated on my arts degree and completed it with first class honours in both German and Italian,” he said.

He’s just completed his first year of commerce and said this area of endeavour appealed to him as something that would complement his arts background.

“I think my arts degree has made me a well-rounded person. I’m not just in accounting for the money!” he said. “I think you can really set yourself apart from other commerce students with something that is a bit out of the ordinary, like my two languages.”

As Global Achiever, Tim gets two weeks international placement with one of accounting firm Pitcher Partners’ affiliate offices, in either London, New York, Philadelphia or Atlanta.

With his background in European languages, Tim has chosen London. It will be his third trip to Europe as a result of academic achievements.

He studied German and Italian at school and, in year 11, was selected to go to Italy, supported by the Education Department. Later, at university, he won a scholarship from the Italian government to study at the University of Bologna for six months. Then he spent two months in Germany on exchange at the University of Freiburg.

“And now the ICAA is paying for me to go to London. I’m doing pretty well, aren’t I?”

Every year, the ICAA recognises the top 20 first year accounting students in each state and rewards the top student with an international placement. This is the second consecutive year in which a UWA student has won the Global Achiever award.

Rowing would have to be one of the most appropriate sports for a Rhodes Scholar, bound for Oxford University.

Computer scientist and engineer David Knezevic (pictured), WA’s 2005 Rhodes Scholar, will take with him to Oxford next year not only a stellar academic record but several years experience in the sport that symbolises the university town.

As a member of the UWA Boat Club, David competed in the Australian University Games in 2002 and 2004, as well as at the National Rowing Championships in 2003. He also rowed competitively during a semester at the University of Texas in Austin that year. This US stint clearly whet his appetite for overseas study.

“The University of Texas campus, the biggest in the US with 53,000 students, has the entire student body living on or near campus, so it’s a tight knit community with a very vibrant student culture,” he recalls. “The rowing was college-based and the competition intense!”

“Unlike rowing in Australia, the US universities focus only on racing eights, and whereas we tend to focus on technique, they emphasise fitness and strength, using the rowing machine extensively. It was interesting seeing the differences and I really enjoyed the experience of another campus and another culture.”

David completed a computer science/engineering double degree at UWA, and believes that pursuing a DPhil in the Oxford University Computer Laboratory will enhance his career flexibility.

“I don’t want to confine myself to a single area,” he says. “The Rhodes Scholarship is a fantastic opportunity to focus on computer modelling which is relevant to so many areas of science and engineering because computer simulation is ubiquitous in most fields.”
The University’s rural medicine centre has achieved a significant milestone in providing doctors for the bush.

Eight overseas trained doctors have become the first to complete their terms in country towns, under the Overseas Trained Doctors (OTD) Five Year Scheme.

Doctors Wynand Breytenbach (from South Africa to Narrogin), Eben Coetzee (from South Africa to Kalgoorlie/Boulder), Josephus de Jong (from the Netherlands to Broome), Parbodh Gogna (from UK to Beverley), Werner Fleitmann (from South Africa to Quairading), Noreen Parshad (from India to Geraldton AMS), John Pollard (from UK to Geraldton), and Amirthalingam Prathalingam (from Sri Lanka to Denmark) started the scheme in October 1999.

Supported by the University’s Western Australian Centre for Remote and Rural Medicine (WACRRM) and the Australian Medical Association the provisions of the scheme in Western Australia require doctors to agree to work for five years in a designated unmet area of need. Before going out into the bush, they must have very good GP experience; WA Medical Board registration; and they must sit and pass the Royal Australian College of General Practitioners exams in the first two years on the scheme.

At the end of five years, doctors can work anywhere in Australia as general practitioners.

Director of WACRRM, Dr Felicity Jefferies, says this first group of doctors has been a real asset to the rural medical community of Western Australia.

“At the time my options to stay in Australia were rapidly running out and I was facing deportation. It was a very sobering thing, and with support from friends we were able to establish the Five Year Scheme,” said Dr Gogna.

He has now been in regional WA for eight years and says the benefits of working rurally are important for both the community and the doctors.

Dr Amirthalingam Prathalingam (Denmark) says he has been fortunate to work in the southwest town of Denmark, where he has been shown acceptance and support.

“I have been privileged in working with my medical colleagues in Denmark and the other towns in Western Australia. Their acceptance has been a source of strength in adjusting to the Australian way of life, and the diverse demography made the transition from my previous practice to Australia quite interesting and challenging.”

If, like me you are a British trained, Sri Lankan doctor who has worked in Africa, expect to be treated as a curiosity by some people. Accept that some people will never accept you and after many years you will still be referred to as the locum from wherever. Ignore these comments and accept the Australian people as they are friendly and relaxed, and the phrase “no worries mate” truly displays the average Australian character.”

Another five OTDs will complete their terms under the Five Year Scheme this month. To date 89 have entered the Scheme. “Clearly these numbers are important in providing high quality medical personnel in all parts of the bush,” Dr Jefferies said.
“Gone to Rottnest” could well be a note found on many doors across the campus over the summer vacation.

It is also the title of a user-friendly book about our favourite holiday island, written by Public Affairs journalist Trea Wiltshire and published by UWAPress.

“This is the book I hoped to find when I first visited Rottnest Island after settling in WA,” Trea said. “A book on the history and natural history of the island is long overdue.”

Gone to Rottnest addresses the challenges facing an island with a fragile environment that can be overwhelmed by visitors at peak periods, and highlights the need for adequate funding for the restoration of the built and natural environments.

“Fortunately for me, many specialists have conducted research on the island, and have written books and field guides that proved to be invaluable,” Trea said. “The Rottnest Island Authority has also produced some beautifully illustrated and highly informative visitor brochures, which were also a great help.”

Trea’s book is a combination of historical and environmental information, complemented by a celebration of the simple pleasures of the island. Much more than a brochure, it is the little brother of a coffee table tome: small enough to tote around the island in your backpack, and substantial enough to give as the ultimate Western Australian Christmas gift.

Gone to Rottnest is the first book in a series from UWAPress that will highlight the natural history of special places in WA. It can be ordered on-line from UWA Press or from the Co-Op bookshop for $24.95.

PATRICIA AND IAN CRAWFORD receive their award from the Premier of NSW, Bob Carr

When historians Patricia and Ian Crawford came to WA from the eastern states in the 1970s, they wanted to buy a bush block close to Perth for a regular weekend retreat.

They ended up with a block in Northcliffe. “We really didn’t plan to buy somewhere so far away, but as we drove south, the further we went, the more beautiful the trees became, and by the time we reached Northcliffe, we were hooked!” Patricia, a UWA Professor of History, said.

Patricia and Ian (a now retired historian who specialised in archaeology and anthropology for the WA Museum) have written a book about their beloved corner of the world, which has won the NSW Premier’s Prize for regional and community history.

The $15,000 award is for a book which makes a significant contribution to the understanding of Australian community, institutional or regional history. It is judged on quality of research, scholarship and analysis.

Contested Country: A History of the Northcliffe Area was published by UWA Press, under the Charles and Joy Staples South West Region Publications Fund.

“UWA Press did a lovely job with the book,” Professor Crawford said.

Her husband Ian contributed the chapters on the Aboriginal people of the area and helped out with other sections. “He also looked after me when I was unwell during the writing of the book, so he truly deserves to share in this award,” she said.

Northcliffe has an emotional history, with passions running high about clear felling by early settlers, the timber industry, the preservation of the native forests, and Aboriginal ownership of the land.

All the issues are covered in Contested Country, from the perspective not simply of two historians, but from that of two people who love the area, are closely involved with it, and concerned for the preservation of one of the most botanically diverse areas in Australia.

It is available at the Co-Op Bookshop for $38.95.
Irish cricket, anybody?

St Patrick’s Day 2005 promises to be a special one at UWA, with the fifth annual John Inverarity Cup match being contested on James Oval between perennial protagonists the Vice Chancellor’s XI and the Premier’s XI.

David Phua, UWA Sports Marketing Manager, said the climax of the week long Festival of Cricket, next year’s John Inverarity Match will feature former international players including Pakistan great Zaheer Abbas, while some high profile test stars from the sub-continent are also being lined up to be a part of what will surely be the best match to date. While the quality of on-field play will be high, the Festival also offers off-field opportunities for the University community to use the event to develop business connections.

“We have a range of marquees available for corporate entertaining. These can hold up to 20 people each and a variety of catering options are available. It’s a great way to do business or entertain clients — and an even better way to spend an afternoon getting to know people from different departments or schools,” he said.

AFL football is a year-round sport for its players and many of them have had to make the difficult decision to give up cricket to concentrate on footy.

West Coast Eagle player Brett Jones, a UWA commerce graduate, was a second XI cricketer for WA before he made that hard decision.

But now, he’s back both on campus and into cricket, in the position of general manager of the University Cricket Club.

The UWA club is the first member of the WA Cricket Association to appoint a general manager. Brett will be responsible for managing the day to day affairs of the club, including sponsorship arrangements, recruitment, coordinating fixtures, liaising with coaches and players and organising special events.

“This is a great opportunity for me to apply my commerce degree and stay involved in a sport I love,” Brett said. “It also offers me a taste of a potential career after football.”

University Cricket Club President Kevan Penter said Brett was the ideal candidate to fill a role the club had been contemplating for several years.

“Sporting clubs are becoming more professional and need to be able to address the challenges of an increasingly commercial environment,” he said.

“While we were sad to lose Brett as a player once he made his commitment to the West Coast Eagles, he has stayed heavily involved at the University Cricket Club in a voluntary capacity.”

Brett will combine his new role with his preseason football commitments.
**PROMOTION BRIEFS**

**October, November 2004**

**Associate Professor to Professor**

**Dr George Yeoh**  
*School Of Biomedical and Chemical Sciences*  
A superb performer in all aspects of academic life; an eminent international authority in cell biology, and the leader in the area of liver progenitor oval cell proliferation during chronic liver disease and cancer, with an impressive grants and publications record; has provided tireless service to the University, as Head of Department of Biochemistry and now Associate Dean (Research), Faculty of Medicine and Dentistry; a committed and very highly rated teacher of both undergraduate and graduate students with an outstanding record of supervision, who even as a NHMRC fellow introduced and developed courses in cell biology.

**Dr Peter Handford**  
*Law School*  
A teacher of the highest calibre with a thorough mastery of the subject matter and superb communication skills; has been nominated for Excellence in Teaching Awards; as Executive Officer and Director of Research for the Law Reform Commission of WA he had a significant role in every major law reform proposal from 1983 until 1998; an outstanding torts scholar with an international reputation in liability for psychiatric injury and limitation of actions.

**Senior Lecturer to Associate Professor**

**Dr Antonio Celenza**  
*School of Primary, Aboriginal and Rural Health Care*  
Has made an outstanding contribution to the emerging discipline of emergency medicine through his teaching and development of curricula for both undergraduate and postgraduate students. He is a leader in the field; has received several awards for excellence in and his contribution to clinical teaching; has published important articles in emergency medicine, all while spending half of his time providing specialist clinical input into the Department of Emergency Medicine at Sir Charles Gairdner Hospital.

**Dr Daniel Green**  
*School of Human Movement and Exercise Science*  
A highly respected and inspiring teacher and supervisor with high SPOT ratings. His innovations include the development of an impressive web-based package of instructional material; has an impressive research record with publication in the leading international cardiology and physiology journals and has made an outstanding contribution to understanding of the effects of exercise on cardiovascular function. Established successful collaboration with clinical colleagues at RPH and in the United States and has secured substantial funds from competitive research grants.

**Dr Jenny Gregory**  
*School of Humanities/University of Western Australia Press*  
Under her directorship UWA Press has become a significant academic publisher and she has brought substantial research funds to the University; her own publications and her directorship of the Centre for West Australian History have significantly raised the profile of Western Australia history; she has rendered outstanding service to the University and the community, including as President of the National Trust and inaugural President of the History Council of WA.

**Dr Neil Morgan**  
*Crime Research Centre, Faculty of Law*  
A sentencing scholar of truly international standing with an extensive publication record; a true educator who draws out from students the knowledge and insights within them; as Director of Studies of the Crime Research Centre he has overseen the development of an impressive range of specialist postgraduate subjects.

**Dr William Taylor**  
*School of Architecture, Landscape and Visual Arts*  
An extensive record of research publications including his internationally acclaimed book, *The vital landscape*, an original work which seeks to reunite architecture with ethics; the recipient of a major ARC Discovery Grant into the Philosophical Foundations of Architectural Discourse.

**Dr Sandy Toussaint**  
*School of Social and Cultural Studies*  
She has engaged in substantial and wide ranging research in applied, critical and theoretical anthropology which has received international recognition; a gifted and committed teacher with high ratings in SPOT reports and a nomination for a UWA Excellence in Teaching Award.

**Research Associate to Research Fellow**

**Dr. Ping Si**  
*Centre for Legumes in Mediterranean Agriculture*  
Has made a significant contribution to the understanding of the adaptation of crop and pasture species, particularly canola, to the Western Australian environment through her research and publications; has contributed to the University through the establishment of important links to China, in particular with the Australian Centre of International Agricultural Research, and through attracting significant funding from external sources.
Giving up a favourite chair

Don Bradshaw
Professor, Animal Biology

Honey possums, dragon lizards, swamp tortoises ... and Paris. Strange bedfellows?

Not for retiring Chair in Zoology, Professor Don Bradshaw (pictured below), who has devoted his life to Australian native animals but managed to spend a lot of it in his favourite European city, studying, collaborating and simply enjoying the culture.

The most recent addition to his list of achievements and accolades is nomination for foreign membership of the Académies des Sciences in Paris.

But his entire working life has been based at UWA, where he became only the second Chair in Zoology (now known as Animal Biology), when Professor Harry Waring retired in 1975. The Chair was created for Professor Waring in 1948 and, after 27 years, it was passed on to Professor Bradshaw, who has held the position for 28 years.

Professor Bradshaw started work at UWA in 1965 as a graduate assistant, while completing his PhD. “But I just wanted to get out of Australia, which was still in the grip of the Menzies era,” he said. “I was interested in art galleries and museums, so I headed for the UK on a Rutherford Scholarship from the Royal Society.” A couple of years at Sheffield University was followed by a CSIRO post-doctoral fellowship in Paris, then a couple of years in California.

He returned to UWA only when he received a cable telling him that the University had been holding a position for him for two years and he was morally bound to come back!

Professor Bradshaw is a comparative endocrinologist and ecophysiologist who has worked with all major vertebrate groups. Early in his career, he was instrumental in developing sensitive micro-methods for the precise measurement of circulating levels of pituitary and adrenal hormones in the blood of lower vertebrates.

Over the past 20 years, he has been collaborating with French colleagues in research which has resulted in the development of a novel nuclear method for the measurement of levels of the stable isotope, oxygen-18, in microsamples of biological fluids. Oxygen-18 is now widely used in ecological studies to estimate the rate of metabolism of free-ranging animals.

His research has involved several years of study and supervision of graduate students’ work on Barrow Island.

“Barrow has nine native marsupials, four of which are virtually extinct on the mainland and I am campaigning against the planned development there that could spell the end for these species.

“The animals are extremely well adapted to their environment there. The island has an estimated 110,000 golden bandicoots. When you go out at night, you have to be careful you don’t step on small animals!”

“Barrow gave me a glimpse of what Australia once was,” he said.

One of the marsupials Professor Bradshaw and his wife Felicity, an honorary research associate in Animal Biology, have concentrated on for the past 10 years is the honey possum. They have focussed on relating levels of protein intake to breeding in the tiny possum.

“But our honey possum study sites have been burnt more than once by CALM. After a fire, it takes between 15 and 20 years for the honey possum to return to the site, but CALM’s burning cycle is six years.

“Evidence is mounting that CALM’s prescribed burning, which they put into place after the Dwellingup fires of the 1960s, doesn’t really help, and there needs to be some more serious research into the program.”

Professor Bradshaw will spend more time on such conservation issues, after retirement. “Australia’s stewardship of the environment is not good, even though we are spending more money on it than ever before.”

The dragon lizard and the swamp tortoise have both been reprieved from possible extinction by the work of Professor Bradshaw’s group, to restore their native habitats.

He has seen salinity become a threat to native animals too.

“Agriculture should not be a business in Australia. We should grow enough to feed our own people and no more. When we export wheat and wool, we are just quarrying the soil and creating salinity.

“What upsets me is how long it’s taken for some people to recognise it as a problem. In 1924, a paper was published saying that wholesale land clearing was increasing the salt in our water. Questions were asked in Parliament and the response was that it was hysterical scientific nonsense.”

Professor Bradshaw will keep his office and laboratory going for a couple more years, while his PhD students finish their research. After that, he will probably plunge deeper into conservation issues, with the occasional trip to Paris with Felicity, who retired last year.
Happy Holidays

This is the final issue of UWANews for 2004.

Thanks to all the staff who have contributed this year. We rely on your tips to be able to bring the campus news to all the readers. So keep up the good work in 2005.

The first of 19 fortnightly issues next year will be published on Monday March 7. The deadline for editorial and advertising copy for this issue is Wednesday February 23.

From next year, we will no longer be publishing Campus Diary. All these events are on the UWA website. Please send all classified or display advertisements and redundant equipment information to our new email address: staffads@uwa.edu.au.

If you would like to submit a column for The Last Word, if you know somebody who has an intriguing off-campus interest, or would like us to publicise an event or achievement, please contact the editor, Lindy Brophy on 6488 2436 or at lindy.brophy@uwa.edu.au.

The UWANews office will be closed over the summer, reopening on Monday February 7, 2005.

Should Auld Acquaintance be Forgot?

As our minds turn to festive celebrations with family and friends, Deputy Vice Chancellor Professor Margaret Seares would like us to consider one special group of people.

They are our former colleagues at the University. Many current staff will no doubt catch up with these friends at ‘departmental’ gatherings and private get-togethers. Professor Seares wants to add former staff to the Alumni database so that they can be informed of important developments and events at the University.

“Please assure people that this is not a fund raising venture but rather recognition of the valued contribution made by many wonderful people over the years. With our Centenary fast approaching we want to make sure we can contact as many graduates and alumni.” Professor Seares said.

Of course all UWA graduates are already on the database but we may not have all their current details. To ensure we include as many people as possible please mention this initiative to your friends and ask them to contact Diane Valli in Public Affairs on +61 8 6488 7955 or dvalli@admin.uwa.edu.au.
Dr Alan Collins, Prof M Santosh, Earth and Geographical Sciences: ‘The Indian Keystone of Gondwana: Protolith Affiliation and Age of Metamorphism of the Southern Granulite Terrane of India’—$15,500
Dr Angus Cook, Population Health: ‘Salinity and Arboviral Disease Risk in South-west WA: An Ecosystem Health Perspective’—$13,800
Dr Ben Corry, Biomedical and Chemical Sciences: ‘Spectroscopic Measurement of the MiCL Membrane Channel Structure’—$17,400
Dr Danica Cvejanovic, Physics: ‘Experimental Investigation of Spin Effects and Configuration Mixing in Excitation and Ionization of Metal Atoms’—$16,660
Dr Zoey Durmic, Animal Biology: ‘Using Australian Native Plants as Safer Alternatives to Feeding Antibiotics as Growth Promoters in Ruminants’—$10,000
Dr Shari Forbes, Centre for Forensic Science: ‘A Novel Approach to Estimating Time Since Death in Skeletal Remains’—$14,750
Dr Martin Forsey, Social and Cultural Studies: ‘The Perceptions and Realities of Public and Private Education in Australia: A Pilot Study’—$21,055
Prof David Kennedy, Humanities: ‘Jarash Town Survey, Jordan’—$13,750
Dr Jason Kennington, Prof Michael Johnson, Animal Biology: ‘Genetic Effects of Translocation: Measuring Genetic Mixing in an Artificial Hybrid Population’—$12,000
Prof Hans Lambers, Prof John Kuo, Plant Biology, Centre for Microscopy and Microanalysis: ‘Specialised Dauciform Roots of the Cyperaceae: Structure and Physiology Associated with Low-Phosphorus Stress’—$12,000
Dr Rommel Lan, Biomedical and Chemical Sciences: ‘Effect of Protease-activated Receptor (PAR) Stimulation in Lung Fibroblasts on Airway Wall Remodelling and Pulmonary Inflammation’—$13,900
Dr Grant Landers, Human Movement and Exercise Science: ‘The Effect of Swim Intensity on Subsequent Cycling and Overall Triathlon Performance’—$14,000
Dr David Lloyd, Human Movement and Exercise Science: ‘The Effect of Using Subject Specific Anatomical Data on the Predictive Accuracy of EMG-driven Neuromusculoskeletal Models’—$16,000
Dr Alexandra Ludewig, Humanities: ‘Claims to a German “Heimat” in the Baltic Region in Contemporary German Literature’—$14,500
Dr Craig Macfarlane, Plant Biology: ‘Impact of Alternative Respiratory Pathways on Plant Growth Efficiency’—$17,000
Dr Mohamed Mahla, Biomedical and Chemical Sciences: ‘Recovery of Metal Ions, Water Decontamination and Heterogenous Catalysis by Chitosan Biopolymers’—$16,000
Dr Thomas Martin, Biomedical and Chemical Sciences: ‘Expression Profiling of 14-3-3 Signalling Genes in Arabidopsis and Their Possible Involvement by 14-3-3 Loss of Function Mutations’—$12,000
Prof Michael McAleer, Economics and Commerce: ‘Optimal Risk Analysis in Dynamic Portfolio Selection’—$19,970
Dr Lynn Meuleners, Population Health: ‘The Role of Fragility and Crash Overestimation as Determinants of High Death Rate per Vehicle Mile of Travel Among Older Drivers’—$18,717
Mrs Harriet Mills, Animal Biology: ‘Conservation Status of Urban Populations of Southern Brown Bandicoots in Perth’—$20,000

For any queries about the research grants published in this issue contact the Research Grants Office, ext. 3702
Mr Peter Mills, Human Movement and Exercise Science: ‘An Investigation into the Differential Effects of Medial and Lateral Mecanoceptors on the Knock Loading Patterns and Tibial Cartilage Loss’—$16,400

Dr Michael Morris-Thomas, Oil and Gas Engineering: ‘An Investigation into Nonlinear Wave-structure Interaction Effects in Progressive Waves’—$15,500

Dr Lisa Nimmo, Psychology: ‘The Incorporation of Linguistic Mechanisms that Constrain Recall Performance into Existing Short-term Memory Models’—$19,937

A/Prof Andrew Page, Psychology: ‘Isolating the Cognitive Processes Underlying Harmful and Beneficial Mental Control Strategies’—$13,160

Dr Elena Pasternak, Civil and Resource Engineering: ‘Engineered Materials with Negative Poisson’s Ratios’—$18,100

Dr Roshun Paurobally, Mechanical Engineering: ‘Optimisation of the Number and Locations of Sensors and Actuators for Active Control and Condition Monitoring’—$17,000

Dr Tony Phan, Dentistry: ‘Extraction and Cultivation of Human Periodontal Ligaments, Gingival Fibroblasts and Alveolar Bone: Effect of Growth Factors on Dental Tissue Regeneration’—$20,000

Prof Lorenzo Polizotto, Humanities: ‘The Ricordiane (memoirs) of the Valori Family of Florence, 1380–1590’—$14,500

Dr David Preen, Dr Janine Calver, Biomedical and Chemical Sciences, Earth and Geographical Sciences: ‘Mitochondrial Transcription Factors from Arabidopsis Thaliana and their Binding Sites’—$19,151

Dr Robert Tuckey, Biomedical and Chemical Sciences: ‘Regulating Steroid Hormone Synthesis: Uncovering the Mechanism of Cholesterol Transport by the StAR Protein’—$9,000

Dr Jacqueline Van Gent, Social and Cultural Studies: ‘Missionaries Between Cultures: Encounter History and Anthropological Research at Hermannsburg Mission, Central Australia, 1880s–1940s’—$16,245

Dr Dave Van Kalkenburg, Psychology: ‘Quantifying Auditory Stream Segregation’—$19,815

Mr George Vlahos, Centre for Offshore Foundation Systems: ‘Installation of Jack-up Units Near Existing Footprints’—$15,000


Prof Brendan Waddell, Anatomy and Human Biology: ‘Fetal Programming of Oocyte Number’—$6,000

Ms Natalie Ward, Medicine and Pharmacology: ‘The Effect of Different Forms of Vitamin E on Cytoskeletal P50 Arachidonic Acid Metabolism’—$17,000

Dr Grant Waterer, Medicine and Pharmacology: ‘Mechanisms and Differences between Gram-positive and Gram-negative induced Immunoactivation’—$19,000

Miss Cara Weisbrod, Human Movement and Exercise Science: ‘The Effects of Upper and Lower-limb Exercise and Flow-mediated Dilatation on Shear Stress-mediated Vascular Function: Role of Nitric Oxide in Healthy Humans’—$19,040

Mr Nigel Westbrook, Dr Ken Dark, Architecture and Fine Arts: ‘Topographical Analysis of the Great Palace of the Byzantine Emperors in Constantinople’—$28,421

Dr Raelene Wilding, Social and Cultural Studies: ‘Proper Parenting: An Investigation of Media Representations of Cultural Models of Parent-child Interactions in Relation to Food and Childhood Obesity’—$16,180

Dr Kevin Winchester, Electrical, Electronic and Computer Engineering: ‘Low Damage Inductively Coupled Plasma Etching of HgCoTe at Cryogenic Temperatures with In-situ Optical Emission Spectroscopic Monitoring’—$18,800

Dr Adam Wittke, Mechanical Engineering: ‘Simulation of Needle Insertion Using Explicit Non-linear Finite Element Computation’—$19,000

Dr Karl-Heinz Wyrwoll, Dr Bryan Krapez, Earth and Geographical Sciences: ‘Driving Mechanisms of Mountain Building in Accretionary Orogens’—$300,000 (2005–07)

A/Prof Liang Cheng, Prof B Sumer, Prof John Frensdorff, Civil and Resource Engineering: ‘Numerical Modelling of Three-dimensional Scour below Offshore Pipelines’—$274,000 (2005–07)

A/Prof John Dell, Prof Lorenzo Farone, Dr Han Huang, Dr Adrian Keating, A/Prof Brendan Griffin, Dr Brian Lawn, Prof Joseph Talghader, Electrical, Electronic and Computer Engineering, Centre for Molecular Immunology and Instrumentation: ‘Micro-electromechanical Systems (MEMS) and Nano-electromechanical Systems (NEMS) Technologies for Temperature Sensitive Semicontrollers and Smart Materials’—$867,000 (2005–07)


Prof Arcady Dyskin, Dr Alexander Galybin, Civil and Resource Engineering: ‘Fragment Propagation through Fragmented Solids’—$268,000 (2005–07)


Dr Jiti Gao, Prof Maxwell King, Prof Dag Tjostheim, Mathematics and Statistics: ‘Nonlinear and Nonstationary Time Series Econometric Theory and Applications’—$355,000 (2005–07)

Dr Francisco Garcia-Gonzalez, Animal Biology: ‘Causes and Consequences of Multiple Mating: Benefits of Polyandry, Sperm Competition, and Reproductive costs’—$342,000 (2005–07)

A/Prof Emilio Ghisalberti, Prof Kingsley Dixon, A/Prof Robert Trengove, Biomedical and Chemical Sciences: ‘Optimising Synthesis, Developing Delivery Systems and Resolving the Ecological Significance of the Chemical in Smoke that Promotes Seed Germination’—$355,000 (2005–07)

Dr Joshua Hazlewood, Biomedical and Chemical Sciences: ‘Protein Modifications in Plant Mitochondria: Towards Functional Proteomics’—$275,000 (2005–07)

Prof Stephen Houghton, Prof Kevin Durkin, Dr John West, Graduate School of Education, Psychology: ‘Salience, Organisation and Management of Anxiety towards Time in Children with ADHD and in Healthy Controls’—$110,000 (2005–07)

Dr Han Huang, Prof Gwion Stachowiak, A/Prof Brett Kirk, Prof Tsunemoto Kuriyagawa, Electrical, Electronic and Computer Engineering, Mechanical Engineering: ‘Nano/Micro Grinding, Mechanisms and Technologies for Brittle Materials’—$730,000 (2005–07)

Dr Herbert Iu, Electrical, Electronic and Computer Engineering: ‘Bifurcation Analysis with Applications to Design of Power Electronics Systems’—$150,000 (2005–07)

Dr Jason Kennington, Prof Michael Johnson, Animal Biology: ‘Testing the Costs and Benefits of Gene Flow’—$190,000 (2005–07)
Research Grants & Contracts
Continued from page 3

A/Prof John Kinder, Humanities: 'Enduring Difference: A House of Multilingualism in Italy'—$175,943 (2005–07)

Prof Stephan Lewandowsky, Dr Nicolas Fay, Dr Simon Kirby, Psychology: 'Evolution of Knowledge: Transformations and Universals'—$182,000 (2005–07)

A/Prof Andrew Lynch, Social and Cultural Studies: 'New Wars in Modern Imagination'—$60,000 (2005–07)

Prof Graeme Martin, Dr Dominique Blache, Animal Biology: 'Stimulation of the Mammalian Reproductive System by Olfactory Pathways'—$300,000 (2005–07)

Prof Michael McAleer, Dr Suhejla Hoti, Economics and Commerce: 'Quantifying Country Credit Risk Ratings and Volatility, and Measuring the Impact of Fundamentals'—$220,000 (2005–07)

Prof Michael McAleer, A/Prof Dora Marina, Economics and Commerce: 'Modelling Dynamic Correlations in the Volatility of Patents and Technical Change'—$330,000 (2005–07)


Dr Alice Niemeyer, Prof Cheryl Prager, Architecture and Fine Arts: 'A New Approach to Studying Whole Bodies and Body Parts Applied to Problems of Forensic Science'—$293,000 (2005–07)

Dr Giacinta Parish, A/Prof Brett Nener, A/Prof Unmesh Mishra, Electrical, Electronic and Computer Engineering: 'Ion Implantation Doping of Gallium Nitride for High Performance Electronic Devices'—$685,000 (2005–07)

Dr Pawel Ponsdahl, Prof Gwidon Stachowiak, Mechanical Engineering: 'Adaptation, Selection and Classification Methods for Detection of Osteoarthritis in Knee Radiographs'—$205,000 (2005–07)

Prof Colin Raston, Biomedical and Chemical Sciences: 'Integrated Self Assembly Processes and Spinning Disc Reactor Technology'—$1,225,000 (2005–09)

A/Prof Richard Read, Architecture and Fine Arts: 'Representations of the Backs of Paintings: Analysis and History'—$84,000 (2005–07)

Dr Julia Shand, Dr Catherine Arrese, Prof Russell Foster, Animal Biology: 'The Entrainment of Circadian Rhythms in Marsupial Mammals: Behavior and Sub-Cellular Investigation of Non-rod, Non-cone Ocular Photoreceptors'—$240,000 (2005–07)

Prof Geoffrey Shellen, A/Prof Sarah Robertson, Biomedical and Chemical Sciences: 'Mechanisms of Infertility Induced in Mice by Vaccination with Murine Zona Pellucida 3'—$220,000 (2005–07)

Prof Leigh Simmons, A/Prof Dale Roberts, Animal Biology: 'Sperm Competition and the Evolution of Ejaculates'—$690,000 (2005–09)

A/Prof Timothy St Pierre, Dr Robert Wentworth, Dr Elliot Gilbert, Surf and Storm Riffe, Physics: 'Magnetic Nanoparticles for Biomedical Applications'—$268,000 (2005–07)

A/Prof Michael Tobar, Dr John Hartnett, Prof Christophe Salomon, Prof Andre Clairon, Dr Clayton Locke, Dr Peter Fisk, Prof Peter Guillon, Physics: 'High Precision Tests on the Standard Model of Physics and Relativity'—$913,000 (2005–09)

Dr Joseph Tomkins, Animal Biology: 'Quantifying Condition-dependence in Sexual Selection'—$670,000 (2005–09)

Prof Diana Walker, Prof Carlos Durante, Prof Alistar Robertson, Dr Pauline Grierson, Plant Biology, Natural and Agricultural Sciences: 'Understanding Coastal Biodiversity: The Impact of Marine Production Subsidies upon And Coastal Environments'—$220,000 (2005–07)

A/Prof Song Wang, Dr Xia Lou, Mathematics and Statistics, Centre for Ophthalmology and Visual Science: 'Optimum Design of Controlled Drug Delivery Systems'—$231,000 (2005–07)

A/Prof Richard Weller, A/Prof David Hedgcock, Architecture and Fine Arts: 'Redesigning the Suburb: A Landscape Architectural Inquiry'—$278,000 (2005–07)

Dr Thomas Wernberg, Dr Gary Kendrick, A/Prof Russell Babcock, Plant Biology: 'Effects of Physical Disturbance on Kelp-dominated Rotaliophyta across a Broad Temperate-tropical Transition Zone'—$210,000 (2005–07)

Dr Benedict White, Prof Robert Chambers, Agricultural and Rural Economics: 'Designing Better Landowner Contracts to Protect Australia's Environment'—$69,757 (2005)


Dr Annette George, A/Prof Michael Dentith, Dr Duncan Lockhart, Mr Matthew Fittall, Earth and Geographical Sciences: 'Largest Jurassic History of the Exmouth Sub-basin, North West Shelf: Lowstand Deposits of the Barrow Group'—$84,387 (2005–06)


Dr Greg Hertzler, Agricultural and Resource Economics: 'Designing Weather Derivatives and Yield Index Contracts for Rural Australia'—$84,387 (2005–08)

Dr Myra Keep, Prof Brian Kennett, Dr Phil Cummins, Earth and Geographical Sciences: 'The Archean to Proterozoic of Northwestern Australia'—$386,943 (2005–08)

Dr Daniel Murphy, Dr Christoph Hinz, Earth and Geographical Sciences: 'Integrating Microbiology and Climatic Drivers to Determine Triggers for Nitrous Oxide Emissions from Arable Soils in Southern Western Australia'—$399,884 (2005–08)

Prof Kadambot Siddique, Dr Roger Jones, Dr Arthur Diggle, Economics and Commerce, Centre for Legumes in Mediterranean Agriculture: 'Predicting Models and Decision Support Systems for Viral diseases and Aphid Vectors of Lupin and Canola'—$120,000 (2005–06)

A/Prof Michael Tobar, Dr John Hartnett, Mr Jesse Searls, Physics: 'Application of Femto-second Light Sources to Generation of Low Noise Microwave Signals'—$810,000 (2005–09)

ARC LINKAGE INTERNATIONAL AWARDS

Dr Mark Cassidy, Prof Guy Houlbry, Dr Itai Einav, Dr Byron Byrne, Dr Christopher Martin, Centre for Offshore Foundation Systems: 'Development of Loading Models for Application in Offshore Geotechnics'—$29,000 (2005–06)

Dr Karol Miller, Dr Kiyoyuki Chinzei, Mechanical Engineering: 'Bionanomechanics of Needle Insertion'—$27,800 (2005–07)

A/Prof Robert Stamps, Prof Denis Greig, Dr Gianluca Gubbioitti, Prof Paolo Politi, Dr David Crew, Physics: 'Fast and Slow Dynamics at Coupled Magnetic Interfaces: Theory and Experiment'—$25,000 (2005–06)

ARC LINKAGE INFRASTRUCTURE EQUIPMENT AND FACILITIES (LIEF)

Prof Susan Berners-Price, Prof Colin Raston, A/Prof Murray Baker, George Kontonis, Dr Andrew Rate, Dr Pauline Grierson, Prof Robert Kagi, Prof Julian Gale, Prof Gordon Parkinson, Dr Ian Godfrey, Biomedical and Chemical Sciences, Earth and Geographical Sciences, Plant Biology: 'State-of-the-Art Solid State Nuclear Magnetic Resonance Facility'—$434,000 (2005)

Dr Andrew Millar, A/Prof James Whelan, Prof David Day, Prof Richard Oliver, Prof Geoffrey Stewart, A/Prof Simon Aitwood, Dr Peter Arthur, Prof Stephen Powles, Prof Craig Atkins, Dr Thomas Martin, Prof Graham Wilcox, Biomedical and Chemical Sciences, Plant Biology: 'Robust High Resolution Gene and Protein Expression Analysis Facilities in WA'—$156,697 (2005)

Dr Andrew Millar, Prof Julian Gale, Prof Igor Bray, Prof David Blair, Prof Matthew Bellgard, Prof Sydney Hall, A/Prof James Whelan, A/Prof Andrew Rohli, Dr Mark Stackman, Dr Dylan Jayatilaka, Dr Allan McKinley, A/Prof Amitava Datta, Dr Karen Haines, Prof Aracdy Dyskin, Prof Gregory Ivey, Dr David Reynolds, Prof Peter Klinken, Biomedical and Chemical Sciences, Physics, Computer Science and Software Engineering, Civil and Resource Engineering, Water Research Centre, Centre for Medical Research: 'Western Australian Supercomputer Program (WASP)'—$1,362,295 (2005)

A/Prof Michael Tobar, Dr Peter Fisk, Prof Christophe Salomon, Dr John Hartnett, Dr Eugene Ivanov, A/Prof Andre Luiten, Prof William Featherstone, Physics: 'A Facility for Ultra-Precise Time and Frequency Transfer: Creating an Australia User Group for the ESA Atomic Clock Ensemble in Space Mission'—$242,000 (2005)

Dr Jacqueline Wilce, A/Prof Matthew Wilce, Prof Ralph Martins, Prof Geoffrey Stewart, Prof Susan Berners-Price, Dr Paul Watt, A/Prof Erik Helmerhorst, Prof Linda Beasley, A/Prof Matt Hearn, Prof A/Prof Boris Martinac, Prof Andrew Thompson, Biomedical and Chemical Sciences, Medicine and Pharmacology, Applied Biology, Institute for Child Health Research: 'State-of-the-art Biophysical Tools for the Characterisation of Molecular Interactions'—$630,817 (2005)

NHMRC PROJECT GRANTS

Dr James Semmens, Prof David Fletcher, A/Prof Michael Lawrence-Brown, Prof D’Arcy Holman, A/Prof Michael Hobbs, Protonon Health, Surgery and Pathology: 'WA Safety and Quality of Surgical Care Project: Improving the Safety, Quality and Provision of Surgical Care'—$574,125 (2005–07)
Prof Simon Stewart, Dr Judith Finn, Prof D'Arcy Holman, A/Prof Ian Jacobs, A/Prof Michael Hobbs, Prof Simon Stewart, Population Health, Primary, Aboriginal & Rural Health Care: ‘A Population Based Linked Data Analysis of the Prognostic Determinants of Out of Hospital Cardiac Arrest’—$171,500 (2005-06)

Prof William Musk, A/Prof Alan James, A/Prof John Beilby, Prof Lyle Palmer, A/Prof John Beilby, Prof D’Arcy Holman, Medicine and Pharmacology, Population Health, Biomedical and Chemical Sciences: ‘The Changing Prevalence of Asthma and Chronic Obstructive Airway Disease in Australia’—$729,380 (2005-07)

Prof Donald Robertson, Dr Wilhelmina Mulders, Dr Anthony Paolini, Dr Ian Winter, Biomedical and Chemical Sciences: ‘Descending Control in Hearing and Deafness’—$327,931 (2005-07)

A/Prof Gary Hulse, Dr Diane Arnold-Reed, Dr Robert Tait, Psychiatry & Clinical Neurosciences: ‘Assessing Naltrexone Implant or Methadone Maintenance Treatment on Mental and Physical Health Outcomes in Heroin Users’—$212,325 (2005-06)

A/Prof Barry Iacopetta, Prof Jack Winter, Prof Donald Robertson, Dr Wilhelmina Mulders, Dr Anthony Paolini, Medline and Pharmacology, Population Health, Psychiatry & Clinical Neurosciences: ‘Reducing Occupational Exposure Assessment’—$330,825 (2005-07)

A/Prof Lin Fritsch, Dr Geza Benke, A/Prof Amitava Datta, Population Health: ‘Improving Occupational Exposure Assessment’—$330,825 (2005-07)

Dr Rachel Skinner, Paediatrics and Child Health: ‘Why Do Australian Teenagers Fall Pregnant? Exploring the Antecedents of Teenage Pregnancy’—$532,600 (2005-07)

Prof Timothy Davis, Dr Harin Karunajeewa, Prof John Reeder, A/Prof Kenneth Heitt, Dr Kevin Batsey, Prof Hugh Barrett, Medicine and Pharmacology: ‘Comprehensive Assessment of Novel Artemisinin-based Com-bination Regimens for Treatment of Malaria in Papua New Guinea’—$522,750 (2005-07)

A/Prof Michael Hobbs, A/Prof Matthew Knuiman, Dr Judith Finn, A/Prof Joseph Hung, Dr James Rankin, Dr Peter Spurling, Population Health, Medicine & Pharmacology, Primary, Aboriginal and Rural Health Care, Surgery and Pathology: ‘Randomized Control Trial of a Cancer Shared Care Model’—$237,850 (2005-07)

Dr David Joske, A/Prof Alison Ward, Prof Christobel Saunders, Dr Douglas Pritchard, Medicine and Pharmacology, Primary, Aboriginal and Rural Health Care, Surgery and Pathology: ‘Role of P62/Atg32 in Pathological Bone Destruction’—$272,250 (2005-07)

Dr Anthony Scallo, Centre for Ophthalmology and Visual Science: ‘Host-virus Interactions that Define the Outcome of Anti-Viral T Cell Responses: Relevance to Viral Persistence’—$480,750 (2005-07)

Dr Marjapia Degli-Esposti, Dr Anthony Scallo, Centre for Ophthalmology and Visual Science: ‘Role of DC-CK2 in Corneal Healing’—$417,750 (2005-07)

Prof David Wood, Prof Bo Nivbrant, Surgery and Pathology: ‘In Vivo Pateofoemoral Joint Measurement using Kinematic Radiostereo-metric Analysis (RSA)’—$139,000 (2005-07)

Prof Bruce Robinson, Prof William Musk, A/Prof Richard Lake, Dr Jenette Creaney, Medicine and Pharmacology: ‘Serum Mesothelin-related Protein as an Early Marker of Mesothelioma’—$350,250 (2005-07)

Prof Michael Hobbs, A/Prof Matthew Knuiman, Dr Judith Finn, A/Prof Joseph Hung, Dr James Rankin, Dr Peter Spurling, Population Health, Medicine & Pharmacology: ‘Population Monitoring of Coronary Heart Disease in the Modern Era’—$626,126 (2005-07)

Prof Ming Zheng, Dr Lin Huang, Dr Jake Xu, Surgery and Pathology: ‘The Role of P62/Atg32 in Pathological Bone Destruction’—$272,250 (2005-07)

For any queries about the research grants published in this issue contact the Research Grants Office, ext. 3702
Monday 6 December
INSTITUTE OF ADVANCED STUDIES
‘London in Medieval Texts: Constructing the Metropolis’, Associate Professor Helen Fulton, Department of English, University of Sydney. 6pm, Geography Lecture Theatre I.

Thursday 9 December
INSTITUTE OF ADVANCED STUDIES
‘Art and Wellbeing Forum’, Deborah Mills, co-author of Art and Wellbeing; Susan Ball, Senior Project Officer with VicHealth. The role of art and culture in creating wellbeing in Western Australian communities. For registration please contact (08) 6488 1340 or ias@admin.uwa.edu.au. This forum is free. 3pm, Geography Lecture Theatre I.

Friday 10 December
CLIMA SEMINAR
‘New chickpea varieties – recent success stories from CLIMA collaborative research’, Ms Kerry Reagan, Dr Tanveer Khan, Dr Heather Clarke. 4pm, CLIMA Seminar Room.

Tuesday 14 December
PSYCHOLOGY COLLOQUIUM
‘Just lying there remembering, cockroaches and amnesiacs alike’, Professor Sergio Della Sala, University of Edinburgh, and Raine Visiting Professor. Contact white08@tartarus.uwa.edu.au for more information. 11am, venue to be advised.

Wednesday 15 December
INSTITUTE OF ADVANCED STUDIES RAINE LECTURE
‘Tall tales about the mind and the brain’, Professor Sergio Della Sala, Professor of Human Cognitive Neuroscience and Honorary Consultant in Neurology, University of Edinburgh and Raine Foundation Visiting Professor in 2004. Please register your interest in attending this lecture by contacting (08) 6488 1340 or ias@admin.uwa.edu.au. ALL WELCOME. 6pm, Social Sciences Lecture Theatre (parking available from Hackett Drive entrance I in Car Park 3).

Sunday 19 December
UWA CHORAL SOCIETY CHRISTMAS CONCERT
‘Handel’s Messiah’, hear the splendour of Handel’s Messiah performed by the one hundred-voice University of Western Australia Choral Society and chamber orchestra. Soloists are Anita Watson, Illeana Bodnaras, Donald Cullen and David Thelander. The performance will be conducted by John Beaverstock. Tickets are available from the Octagon Theatre, 6488 2440 or at the door — $28 and $25 (cons). 6.30pm, Winthrop Hall.

UPCOMING EVENTS
Wednesday 9 February 2005
UWA EXTENSION/LEADERSHIP DEVELOPMENT FOR WOMEN 10TH ANNIVERSARY EVENT
‘Ivory Basement Leadership’, introduced by Professor Alan Robson, Vice Chancellor, a panel of distinguished leaders and speakers, chaired by Professor Belinda Probert, Pro Vice-Chancellor Academic, will deliver insights into the dynamics of power and gender that today’s leaders across all organisational levels must manage. Panels include prominent businesswoman Janet Holmes a Court, the WA Police Commissioner Dr Karl O’Callaghan, and Dr Jane den Holland, Pro Vice-Chancellor, Curtin University. To attend, register online at http://www.csd.osds.uwa.edu.au/page/59877 or phone 6488 3502. 7-8.30pm, Alexander Lecture Theatre, Arts Building.
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**The University of Western Australia**

The University of Western Australia invites all graduates and other members of Convocation to attend the **First Ordinary Meeting** of Convocation, the UWA Graduates Association which will be held on Friday 18 March 2005 at 6.30 p.m. for 7 p.m. start at The University Club of Western Australia

The address will be given by

Dr Fiona Wood
Head of the Burns Unit of Royal Perth Hospital and Director of The McComb Foundation

For further information contact

Juanita Perez Scott
Graduates Co-ordinator
(08) 6488 3006

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Classifieds

FOR SALE

CAMRY Vienta Ultima 1994 white, leather interior, all extras, one lady owner since new, non-smoker, 124,200 kms, $9750. Phone 0428 929 258.

DAIHATSU Applause 1993 auto sedan, a/con, power steering, velour seats, low kms, good tyres. RAC report & log book, excellent condition. $4990 ono. Phone 0407 422 616.

SUBARU Sportswagon 4WD 1993, low kms, manual, a/con, good condition, 6 months rego, $6500. Call 6488 1515 or 0412 806 377.

HONDA CRY, 1997, full Honda service history with new timing belt, low kms, 5 speed manual, silver, a/c, p/s, prof tint, excellent cond $18,500. Call Gia at 6488 1390 or 0438 931 933.


DAIHATSU Teros DX 2002, dark green, 4 wheel drive, under warranty until 2008, 46,000 kms, rego til April 2005, air con, dual air bag, cd, excellent condition, $14,000 ono. Call 6488 8000 (w), 9383 7424 (h) or 0404 041 298.

HYUNDAI Excel GLX 1999 Auto, excellent condition, rego til March 2005, $7,800 ono. Call 6488 8000 (w), 9383 7424 (h) or 0404 041 298.

MICROWAVE Toshiba 500W, small to medium, very good condition, $40. Call Gia at 6488 1390 or 0438 931 933.

HONDA CRV, 1997, full Honda service history with new timing belt, low kms, 5 speed manual, silver, a/c, p/s, prof tint, excellent cond $18,500. Call Gia at 6488 1390 or 0438 931 933.

FOR RENT

NEDLANDS $130 per week, comfortable 1 bedroom furnished unit, ground floor, private courtyard, open outlook to rear lawn, in small block on corner of Fairway and the Avenue, near river and UWA. Contact Sylvia Hallam on 9386 1366 or 6488 2664 or phone Shelley on 0438 953 652.

SOUTH PERTH. 2 bedroomed unit on the block on corner of Fairway and the Avenue, air conditioned, double automatic garage and low maintenance courtyards. Make this home now! Available for rental after 15 January. Phone 9388 3488 or email dee@gowre.com.au

HOUSEHOLDING

Experienced, responsible young couple available for house sitting January 2005 onwards. Please contact wacke@cwr.uwa.edu.au

WANTED

SHENTON PARK $350 per week. Imagine a short bike ride or stroll to UWA. Owners’ own home, immaculate 2 bed townhouse in leafy street opposite park. Shops, hospital and schools are a stride away. Brand new kitchen, dryer, air conditioned, double automatic garage and low maintenance courtyards. Make this home now! Available for rental after 15 January. Phone 9388 3488 or email dee@gowre.com.au

SITUATIONS VACANT

CARERS needed for intelligent young man with disabilities. Part-time work, would suit dedicated students, staff. Home care in Mosman Park and outlying. Please contact Lindy on lindy.brophy@uwa.edu.au or on 0407 845 458.

TEACHING INTERNSHIP SCHEME

2005 Interns

The Teaching and Learning Committee is pleased to announce the successful applicants under the Teaching Internship Scheme for 2005. 38 applications were received and the following 14 doctoral research students (listed in alphabetical order) have been offered a Teaching Internship in 2005.

Name

BIENEN, Britta
DIJN, Adam George
FILIPOVIC, Amer
HARVEY, Michelle Louise
HOON, Chang Yau
HUTTON, Peter Graham
JARDINE, Andrew
LYNCH, Pamela
MA, Yamin
MINA, Kym Deanne
OOI, Esther Mei Mei
PEARCE, Geoffrey Robert
RILEY, Kate Elizabeth
SCHNEIKER, Knut Thomas

Faculty

Engineering, Computing and Mathematics
Engineering, Computing and Mathematics
Life and Physical Sciences
Arts, Humanities and Social Sciences
Natural and Agricultural Sciences
Medicine and Dentistry
Arts, Humanities and Social Sciences
Natural and Agricultural Sciences
Medicine and Dentistry
Engineering, Computing and Mathematics
Arts, Humanities and Social Sciences
Life and Physical Sciences

In the past competition for these internships has been extremely high and the Teaching and Learning Committee congratulates these successful students.

The Teaching Internship Scheme has been very successful since its introduction in 2000 and will continue to be funded on an annual basis by the Teaching and Learning Committee. Any queries with regard to this scheme should be directed to the Executive Officer of the Teaching and Learning Committee, Sue Smurthwaite, on extension 2459 or email: ssmurthwaite@admin.uwa.edu.au

Display Advertising Deadlines over Christmas

Since UWA will be closed for two weeks over Christmas, display advertising deadlines for this period have been brought forward a couple of weeks. In order to avoid a last-minute rush, please take note of the following dates: If you wish your display advertisements to be published between 24 December and 10 January, kindly submit your advertising request and material to the Publications Unit no later than Monday 13 December. The Advertising Request Form can be accessed by clicking on the ‘Book Display Advertising’ link on the Official Publications home page at: http://www.publishing.uwa.edu.au/. Direct queries to Janet Hubner (ext. 3029, janet.hubner@uwa.edu.au).

Redundant Equipment for Sale

<table>
<thead>
<tr>
<th>ITEM</th>
<th>PRICE</th>
<th>AGE (YRS)</th>
<th>COND.</th>
<th>SECTION</th>
<th>CONTACT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alrol Mower 23” SHP</td>
<td>$200</td>
<td>21</td>
<td>4</td>
<td>Plant Biology</td>
<td>Leon Hodgson, 6488 8549</td>
</tr>
<tr>
<td>Apple Monitor Colour Sync 17in x 2 – 2000</td>
<td>$100 each</td>
<td>-</td>
<td>2</td>
<td>PIAF</td>
<td>Caroline Wood, 6488 8622</td>
</tr>
<tr>
<td>Mac Power G3 x 2 – 2000</td>
<td>$100 each</td>
<td>-</td>
<td>2</td>
<td>PIAF</td>
<td>Caroline Wood, 6488 8622</td>
</tr>
<tr>
<td>Printer HP Laserjet 4050</td>
<td>$200</td>
<td>-</td>
<td>2</td>
<td>PIAF</td>
<td>Caroline Wood, 6488 8622</td>
</tr>
<tr>
<td>Sony DDS Drive unit</td>
<td>$30</td>
<td>-</td>
<td>2</td>
<td>PIAF</td>
<td>Caroline Wood, 6488 8622</td>
</tr>
<tr>
<td>Iomega ZIP drive</td>
<td>$20</td>
<td>-</td>
<td>2</td>
<td>PIAF</td>
<td>Caroline Wood, 6488 8622</td>
</tr>
<tr>
<td>iMac Power PC G3 350MHz Memory: 192MB</td>
<td>$300</td>
<td>2</td>
<td>2</td>
<td>Music</td>
<td>Deb Yates, 6488 7835</td>
</tr>
<tr>
<td>Hard disk: 6.37 GB</td>
<td>$300</td>
<td>2</td>
<td>1</td>
<td>Music</td>
<td>Deb Yates, 6488 7835</td>
</tr>
<tr>
<td>2 x Imacs: MacOS 9.1 350MHz 128MB memory: 6.8 GB</td>
<td>$300 each</td>
<td>4</td>
<td>1</td>
<td>Music</td>
<td>Deb Yates, 6488 7835</td>
</tr>
</tbody>
</table>

Bids should be accepted by Monday 20 December with schools to have first option

Schools are reminded that all University equipment available for sale must be advertised in the UWA NEWS. Receipts should be PeopleSoft account coded 490 (computing with barcode), 491 (non-computing with barcode) or 493 (items with no barcode). If equipment has an existing barcode please contact extension 3618/2546 for details.

CONDITION refers to the general condition of item ( 1 = as new; 2 = good; 3 = serviceable; 4 = unserviceable). AGE refers to the nearest year.