



Honey possums .. we now know
what they can see

A vision splendid



Dr Catherine Arrese and her supervisor Professor Lyn Beazley ... both excited with the results.

Honey possums see red

by Lindy Brophy

The colour vision of marsupials, previously thought to be poor, because of the animals' nocturnal nature, has been discovered to be better than that of humans.

Dr Catherine Arrese was awarded her PhD at a recent graduation for her ground-breaking research into marsupials' visual capabilities.

Her supervisor, Professor Lyn Beazley, said it was one of the most exciting discoveries made by UWA's neuroscience group's vision project.

The story of how Dr Arrese came to work with marsupials is almost as good a story. As a French national, Dr Arrese came to Australia to study marine science, primarily because the surf was good here. During her third year of study, she developed Ross River virus.

"I was so sick and in so much pain that I had to take anti-inflammatory medication just so I could drive to uni," Dr Arrese said. "The virus meant I couldn't dive any more so I had to change direction in my work and Lyn Beazley introduced me to the Australian fauna, suggesting I do my honours project with the vision group."

Dr Arrese said she fell in love with the marsupials and put so much into her work that she won the prize for best honours project in the School of Animal Biology.

"While I was doing that work, I was out in the field, at Jurien Bay, I noticed not only that they were very active during the

day, which I had not expected, but also that they never made a mistake when searching out Banksia blossom for their sweet nectar," she said.

"I figured that these tiny 10-gram animals wouldn't climb all the way up a big tree, in full view of predators in daylight on the off-chance that the flowers were mature and full of nectar. They must be able to see from the ground whether the flowers were orange and red (rather than green and immature)."

In a paper published in *Current Biology*, Dr Arrese explained that vertebrate colour vision is best developed in fish, reptiles and birds, which all have four distinct cone receptor visual pigments.

As placental mammals evolved, they became nocturnal and lost two visual pigments. Primates later re-evolved a third pigment.

"Students of mammalian colour vision have largely overlooked marsupials ... but using microspectrophotometry we have investigated the spectral sensitivity of the photoreceptors of two marsupials (the honey possum and the fat-tailed dunnart)," Dr Arrese wrote.

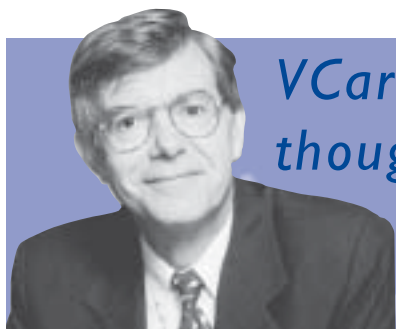
Her paper detailed the first evidence for trichromatic colour vision in mammals other than primates. Following publication, her research went even further.

"There was a striking resemblance between the retinas of the marsupials and those of reptiles, so I kept looking, using molecular biology, and found the fourth receptor cone.

"We now know that the honey possum and the fat-tailed dunnart can see all the colours of the spectrum from ultra-violet to infra-red."

In the labs, Dr Arrese used immuno-chemistry to dissect the retinas of honey possums and fat-

*Continued
on page 5*



*VCarious
thoughts ...*

“Quality Assurance”

These are sombre days. Not only a war in Iraq, involving Australia, but an international environment of instability and regional conflicts. The world economy is ailing, and bearish equity markets deliver declining investment returns — which negatively affect not only individuals but institutions such as UWA.

We have the resources and capacity to cover such effects in the short term. But we now have to consider our future with the new global realities in mind.

What is the best strategy in such an environment? I believe it is critical that we keep to our fundamentals in mission, processes and excellence. Quality institutions, like quality share portfolios, will ultimately succeed over the longer term. Quick fixes and hasty strategies can only damage institutions of essential excellence.

UWA’s fundamentals remain sound. Our performance in 2002-3 is still to be celebrated. Our student intake reflects higher proportions of top state school leavers each year and we now have the highest cut-off scores in Australia. Our research income is outstanding. Our overall budget growth from all sources — except the investment portfolio — was again nearly 8 per cent. Transnational students and programs grew exceptionally strongly. Industry partnerships — such as with Motorola in UWA’s Innovation Precinct — became a model of such strategies. Our community service — through the Perth International Arts Festival, the Press, the gallery, museums, drama and music and sport — all reveals a remarkable engagement with society. And we continue to receive exceptional applications for academic and professional staff appointments.

A culture of excellence exists, and such cultures contain within them a commitment to future developments, an awareness of the challenges we must take up. Our unrestricted income must grow even faster. We must build the post-graduate research

school, with more research students. Greater success in the big collaborative research centre funding programs is also vital. There is considerable opportunity to expand our professional masters programs, and to enhance our transnational initiatives with students of excellence from China.

In 2003 there will be two critical external factors where we can apply our commitment to quality and innovation.

One major opportunity will exist in the way we respond to the outcomes of the “Nelson-Crossroads Review” of higher education funding and policy. Our mission and our capacity should place us in a strong position to advance UWA with a long-term strategy for growth and quality initiatives.

The second is the Quality Audit itself in August. It is easy to be cynical about such national government processes. But the Australian Universities Quality Agency system can do much to assure good international standards for our whole sector, with its self-accrediting public universities. It also has the potential, through both self-evaluation and external critique, to ensure that excellence is enhanced. We enter the quality audit process in the positive spirit that seeks out ways of embedding excellence in our teaching, research and external engagement. And, indeed, extending that excellence in both how we do things and in the UWA outcomes.

As an innocent distraction from global gloom I recently read an excellent study of the origins of key words in our culture. One of these I noted was quality — which I discovered came from the ancient Greeks, where it was used to denote the ‘whatness’ of things, a kind of irreducible reality. The Romans apparently gave the term the ‘modern’ spin — of excellence in outcomes or value etc.

That “whatness” of UWA — our core values, commitments and vision — will be the key to our endurance and development in these troubled and unstable times.

‘Quality will out’, as they say.

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From paddock to productivity

Bright future for agricultural industry

The new Dean of the Faculty of Natural and Agricultural Sciences, Professor Alistar Robertson, is an internationally renowned ecologist with interests in plant-animal interactions, ecosystems processes at land-water margins and the environmental imperatives for agriculture. He comes to UWA from Charles Sturt University where he was Director of the Johnstone Centre for Research in Natural Resources and Society.

After 23 years studying ecological processes in aquatic systems, the new Dean of Natural and Agricultural Sciences caused some concern among the faculty staff.

"I think they were worried that I was going to change this into a faculty of marine science!" laughed Professor Alistar Robertson. "But they didn't need to fear. My heart is on the land."

Professor Robertson said he was brought up on a sheep farm. "My Dad was getting fantastic prices in the 1950s. He would never have believed that sheep numbers in Australia would have dropped by 10 per cent in the past five years."

But it is this sort of change that provides the challenges for new generations of agricultural graduates, who are driving resource management, who understand markets and who are finetuning agricultural products for those markets.

"Consumers are demanding environmentally credited products. In France, you can pick up a piece of beef in a supermarket and take it to the customers' computer and find out where it came from and what practices the farmer used to produce it," Professor Robertson said. "And that system will eventually come to Australia.

"Agricultural products will remain the country's third highest export sector (after oil and gas), bringing in 20 per cent of our export revenue, at least for the rest of this century," he predicted.

"Agriculture and associated areas make up a huge industry, with a lot of diverse jobs. The perception is that our graduates are going to end up on the farm. But some of our graduates have never even been on a farm. They will end up somewhere along the supply chain or in a related service industry," he said.

Early in his term, Professor Robertson said he was able to encourage one of the state's top TEE students (with a TER of 99.95) to enrol in natural resource management, rather than medicine.



Professor Alistar Robertson makes a distinctive figure on campus with his flowing beard

"We don't usually get the 99-plus students but when we do, they realise what a good choice they've made and what a myriad of diverse employment and research opportunities are available to them."

He said the new, enlarged faculty would enhance its already outstanding reputation for research. "Forty per cent of our funding comes from the Grains Research and Development Corporation, so we are constantly working on better production systems and new crop varieties.

"But if we just go down the applied route, we will lose some of our knowledge base, so we will be keeping up the basic research as well."

Professor Robertson has given up a research career to guide the faculty's research, teaching and learning. "I'm happy with my decision, in fact, more than that, I'm excited about the possibilities.

"Our faculty can now offer undergraduate courses and research at all levels in geology, zoology, botany and agriculture as well as in marine science and environmental science. Our mix of disciplines allows us to teach specialities, as well as interdisciplinary courses that involve science, economics and social perspectives.

"My real challenge, as Dean, is to balance the basic scientific with the commercial demands."

Another, lesser, challenge is to come up with more appealing names for some of the Faculty's courses.

"I'm setting up a focus group, which includes some Year 12 students, to advise me on this," he said.

OSDS: Office of Shelda Debowski (at your) Service



Shelda Debowski ... opening another chapter in her 'eclectic' career

Most UWA staff are familiar with the Centre for Staff Development and the Centre for the Advancement of Teaching and Learning. They even know about the Evaluation of Teaching Unit.

But it seems that not everybody understands the inter-relationships and how they all come together under the umbrella of Organisational and Staff Development Services (OSDS), along with additional support services.

OSDS's new Director, Professor Shelda Debowski, hopes to change that.

"I want staff to recognise OSDS as a cohesive service and recognise how it can help them," Professor Debowski said, quickly inventing her own spin on the acronym: Outstanding Staff Develop Superbly.

She describes her career as eclectic. "Most people seem to get more and more specialised in a particular area," she said. "But I constantly found myself developing across a number of boundaries within teaching, technology and organisational development."

But with extensive experience in teaching, research and consulting, Professor Debowski believes her breadth of experience should prove to be an asset in her new role.

She has a long history in academe. She started her working life as a teacher librarian, with a Bachelor of Arts and a Diploma of Teaching but was quickly recruited to lecture at the former Nedlands Teachers' College, at the age of 24. A Bachelor of Education, Master of Education and PhD relating to online learning and affective responses followed.

She spent many years lecturing in library and information services at Edith Cowan University where, she says, teaching was the institutional strength.

"ECU was quite early in putting courses on-line and my teaching experience across a number of modes was strongly developed there. I went to Murdoch University, as a senior lecturer in management, to work more intensively in research." While at Murdoch University she won a teaching fellowship award.

"Murdoch offered many opportunities for me, including extensive roles in research leadership and management. I was Director of Research for the business school for four years, which was particularly valuable, and also operated in research leadership roles at the faculty and university levels.

"The business school had a very low research profile when I went there, with very few people doing research. My leadership role related to establishing a stronger research community by introducing policies and programs for research students and staff, developing support for early career researchers, and building a stronger collaborative research culture.

"Over four years, we increased our research active complement to 40 staff by encouraging interaction and learning through developing a community of practice. I see these types of strategies as particularly critical in our changing tertiary context."

While at Murdoch, Professor Debowski was nominated and short-listed for a Teaching Excellence Award, nominated for supervision excellence and won several teaching innovation grants. She has also published several papers relating to teaching and learning.

She has worked as a performance management consultant to industry and has a strong interest in human resource services and their impact on organisational performance, particularly in the influencing of culture and leadership practices.

Professor Debowski is currently getting to know key people throughout the University and identifying the strengths of OSDS.

"In particular, I'm asking about the service we are currently offering and what, if any, are the barriers to staff taking what they learn back to the workplace?" she said.

Her goals for OSDS include providing better consultancy services to individual faculties and schools, better marketing of the services provided, building up collaborative research with other units within and outside the University, and creating a more integrated service which reflects the needs of both academic and general staff.

Gravity research rewarded

but the search continues

One of UWA's — and the nation's — most innovative physicists has won the Clunies Ross National Science and Technology Award for 2003.

Professor David Blair was presented with the award, along with seven other national winners, in Melbourne recently.

David Blair's quest in search of gravity waves — 'the drums of heaven' — has created new businesses and inspired a generation of West Australian school children. He may yet be the first to detect these elusive waves, first predicted by Albert Einstein.

Hundreds of millions of dollars are being spent in the global race to detect gravitational waves. Working with limited resources, David Blair and his team at UWA are among the leaders.

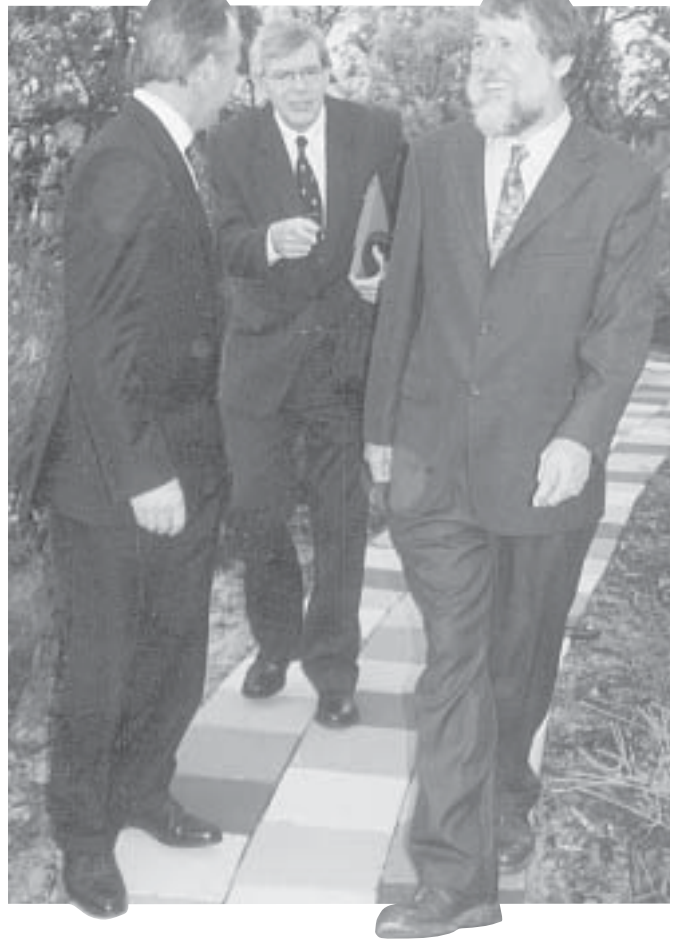
Their gravity wave detector at Gingin, north of Perth, is attempting to detect movement as infinitesimal in size as is a billionth of an atom.

Professor Blair is now working with organisations across Australia to develop still finer detectors using laser interferometry.

The gravitational observatory is accompanied by a science and education centre, the Gravity Discovery Centre, where the team is building the 'Leaning Tower of Gingin', to allow students to repeat Galileo's classic gravity experiments at the leaning tower of Pisa.

"I don't know what difference the discovery of gravity waves will make to humanity," he said, "but Heinrich Hertz, the discoverer of electromagnetic waves, could not have imagined the mobile phone and all the other devices of the electronic revolution of the 20th century either!"

David Blair is the fourth academic from UWA to win a Clunies Ross award since its inception in 1991. One of the inaugural winners was plant breeder Dr John Gladstones, who



David Blair shows Education Minister Brendan Nelson and the Vice-Chancellor around the Gingin observatory at the opening of the Discovery Centre last year

developed the narrow leaved lupin into a crop plant that would produce high yields in light soils.

In 1997, Professor Jorg Imberger, the director of UWA's Centre for Water Research, was cited for his contribution to environmental engineering. And, most recently, Clinical Professor Barry Marshall won the award in 2001 for his discovery that ulcers were caused by bacteria, not stress, ultimately saving millions of people from the pain of stomach ulcers.

The Award honours the memory of Sir Ian Clunies Ross, who dedicated his life to science, technology and the battle against ignorance.

Honey possums see red *Continued from page 1*

tailed dunnarts to identify the cone types in the retina, before proceeding to microspectrophotometry. She now collaborates with Professor David Hunt from the Institute of Ophthalmology, University College, London.

Now Dr Arrese has a much sought after Australian Research Council Post-doctoral Fellowship to continue her work at UWA (even though preference is usually given to PhDs who want to study elsewhere) and she will continue to work with Professor Hunt on the DNA sequence of the marsupial's visual pigments.

"I don't know where this will go but any aspect of research will be a stepping stone for somebody else," she said. "From an evolutionary point of view, it is important because we now know that not all marsupials are nocturnal and they have retained four of their ancestral pigments, whilst the placental mammals retained only two."



Another branch added to the family tree

When Nicholas Badcock was awarded first class honours in psychology last month, he became the fourth family member to choose this branch of science.

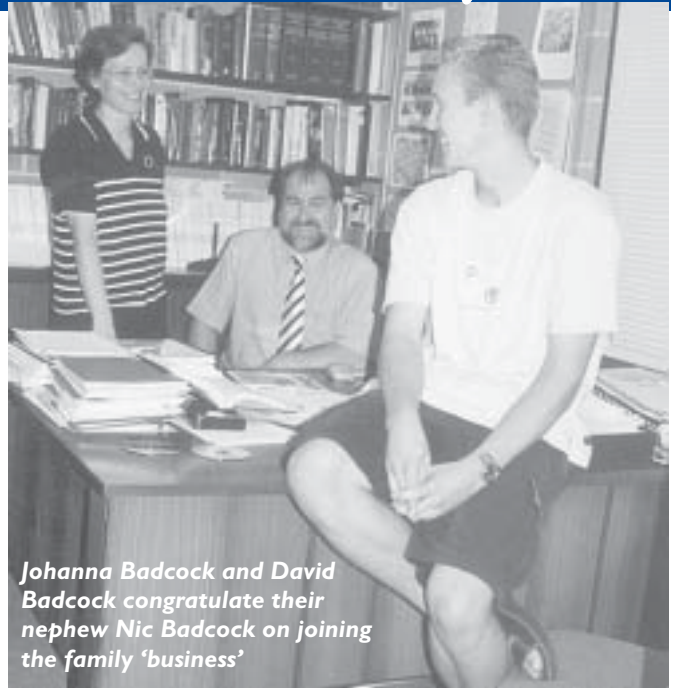
His uncle, Professor David Badcock, is Head of the School of Psychology, his aunt, Dr Johanna Badcock, is a senior research psychologist at the Centre for Clinical Research in Neuropsychiatry and an adjunct senior lecturer in the School of Psychiatry and Clinical Neurosciences; and Nic's aunt and David's younger sister, Ros, is a clinical psychologist in Tasmania.

"David's comments about the strength of UWA influenced my decision to come to Perth," said Nic, "But I was going to study human movement (Nic had represented Tasmania in junior basketball). It was only when I was reading the course notes before enrolment that I changed my mind and decided to study psychology."

In Tasmania, high school students can study psychology. Nic said it was his best subject in his final school year. David co-authored a textbook for high-school psychology when the subject was introduced in Victoria and has been involved in developing the new course to be introduced in WA.

While studying at UWA, Nic revitalised *Psychos*, the psychology students' association and was its president for 12 months. He won the School of Psychology prize for developmental psychology in third year and he has now started work on the combined MPsych/PhD program.

Reflecting the breadth of Psychology as a discipline, Nic is embarking on a new speciality for the family and is working in



Johanna Badcock and David Badcock congratulate their nephew Nic Badcock on joining the family 'business'

the field of developmental psychology. Professor David Badcock's special area of research is human visual performance; Dr Johanna Badcock is a clinical research psychologist who is investigating brain function in schizophrenia; Nic's aunt, Ros, is in private practice and was actively involved in trauma counselling after the Port Arthur shootings.

This doesn't cover all of the discipline but Nic's younger brother Jeremy is also studying psychology at high school in Tasmania. "We're trying to collect the full set!" they laughed.

Degrees of distance



Associate Professor Billie Giles-Corti was founding director of the Albany Centre when these students started their studies. She was delighted to attend their graduations with Bill Cuthbert ...

Family and friends, finances, and a change from city life are among reasons Bill Cuthbert, Susan Elphick, Debbie Bell and Paul Critchison became founding students at UWA's Albany Centre.

They are now the first graduates from the Centre and, after experiencing both rural and city campuses, they all agree the Great Southern experience is to be recommended.

Bill Cuthbert is based in Dunsborough, so he was going to have to move to either Perth or Albany for his first year at University.

"I chose Albany because of my connection with the area. I had worked as a project manager on the Treetop Walk and, after working in the city for a few years, it made a refreshing change to go to Albany," Bill said.

He studied science and graduated with a Bachelor of Science, majoring in anthropology and human geography. He completed his first year in Albany and came to Perth for the following two years.

"Listening to lectures on headphones was fairly isolating, but a year in Albany certainly provided the basics for my really good results," he said. "I would recommend it to anybody, especially school leavers."

Debbie Bell and Susan Elphick were both school leavers, living with their families in Albany.

"I began an arts degree, with the idea of majoring in politics but, by the end of the year, it was clear that it was the wrong decision, so I changed to commerce," Susan Elphick said. "This meant I had two years in Albany. I was involved in all aspects of the centre, including the student Guild and I enjoyed myself immensely."

"The personal touch was lost, coming up to Perth for my final two years, but it did

Distinguished doctorates

The University bestowed three higher degrees of Doctor of Science during the autumn graduation season.

Awarded for a life's work brought together in an impressive thesis, a DSc ranks higher than a PhD. It was awarded to Professor Jim Williams, Professor Peter Sly and Professor Des Richardson.



Jim Williams (left) has been a leading international authority on quantum physics for more than 30 years. He is renowned for his original

experiments, leading to solutions of very difficult problems.

His studies provided the first observations of fundamental quantum scattering processes involving electrons, and have initiated new areas of research. His research has led to precise measurements which can describe fundamental properties of atoms.

This information forms part of the basis of knowledge from which the properties of matter are constructed. Many of Professor Williams' results are now in textbooks for undergraduate and postgraduate physics students.

The life work **Peter Sly** (below) has been devoted to one of the western world's biggest child health problems, asthma.



The Head of Clinical Sciences at the Telethon Institute for Child Health Research, his studies into the scientific basis

of asthma in infants and children have answered questions of clinical importance and made way for great advances in the identification, prevention and treatment of asthma.

He has developed new methods for measuring lung function in infants and very young children – something that had previously been hampered by a lack of suitable techniques.

Professor Sly concentrated on the

role viral infections in early life play in the development of asthma.

The third DSc is **Des Richardson**, from the Children's Cancer Institute Australia, in Sydney.

Getting enough iron seems to be a common problem for women and growing teenagers. But too much iron can cause disease and cancer.

Professor Richardson has made a significant contribution to the development of drugs for the treatment of iron overload disease and cancer.

While iron is critical for cellular growth and necessary for energy production, iron overload in tissues leads to gross toxicity and the failure of vital organs such as the liver and heart.

Professor Richardson's studies successfully identified a group of drugs known as chelators that show high activity at removing iron from overloaded tissues. His work has resulted in the development of iron binding drugs that could inhibit the growth of cancer cells.

His life's work has contributed significantly to an understanding of the role of iron in the molecular mechanisms involved in normal and tumour cell growth.

feel more like being at uni. The small class sizes in Albany were great but I felt I'd missed out on the social side of uni in the city, not getting to know the other students from the beginning of first year."

She completed a Commerce degree, majoring in human resource management, industrial relations and management.

School leaver Debbie Bell, now another commerce graduate, had her family, her boyfriend and a casual job she loved in Albany, so the decision to stay at home for her first year was easy.

"The small class sizes made it easy to learn but it was hard to motivate myself to listen to the lectures on the Internet. Going to lectures in Perth was much more interesting, but having family and friends around in Albany was a big help in the transition from school to university," she said.

A third Commerce graduate, Paul

Critchison, grew up in Albany but had worked in both Perth and Brisbane after leaving school.

"A business venture left me insolvent, so being able to go back home to live while I started University was a great chance," Paul said.

"I felt the small sizes of tutorials put more pressure on students to perform and I feel that perhaps we were marked down on our participation, in comparison to students in bigger classes in Perth," he said.

"But the small classes also had their advantages: we got to know each other well and were able to help each other; we got individual attention from the tutor; and having free access to staff (including administrative staff who could answer all those questions nobody else could) was a huge advantage."

Paul said the Albany experience helped him to get back on his feet and get into the routine of studying before

venturing back to Perth for the final two years of his degree.

He weighed the financial benefits (living with family), class sizes and community atmosphere of the Albany centre against social activities and better access to resources in Perth and said he would recommend doing first year in Albany.



... and with Susan Elphick, Debbie Bell and Paul Critchison

Medals for men of merit



Five people who have given dedicated and distinguished service to the University were honoured with Chancellor's Medals, presented at the recent graduation ceremonies.

(LEFT)

Dr Michael Partis ... a most outstanding academic administrator

(RIGHT)

The Hon Peter Jones ... a founding member of the Hackett Foundation



The medals went to **Dr Michael Partis, Dr Leonard Freedman, Frank Montgomery, the Honourable Peter Jones AM, Frank Montgomery OAM and Keith Abercromby.**

Dr Partis, who began his career in mathematics in the UK and was a senior mathematics lecturer at UWA from 1978 to 1994, was acknowledged as one of the most outstanding academic administrators the University has ever had.

He has served, at various times, as Head of the Department of Mathematics, Sub-Dean of the Faculty of Science, Chair of the University's Matriculation and Admissions Committee, Chair of the Academic Board, Head of the Division of Agriculture and Science, Sub-Dean of the Faculty of Arts and a member of Senate.

He has been an outstanding teacher, as well as a role model in relation to academic leadership, management and administration and the effective chairing of meetings.

Since retirement, he has taken on several projects for the University including the outstandingly successful implementation of the timetabling system, Syllabus Plus.

Dr Freedman was a member of the University staff for 18 years, but it was 16 years of distinguished service to

teaching and research since his retirement that was particularly recognised by the Chancellor's Medal.

Both before and after retirement, Dr Freedman has been a productive, highly respected and valued member of the School of Anatomy and Human Biology, continuing to teach at undergraduate level, to supervise research at all levels, to participate in School committees and to undertake his own research.

His contribution to the School since his retirement was described as inestimable. He has provided guidance, support, friendship and inspiration to generations of staff and students.

Frank Montgomery, a chartered accountant, has volunteered his skills and services to the community at large, including a major contribution to the University.

He brought to UWA the benefit of his impeccable financial skills and a passion for the arts, serving on two of the University's key financial committees, and for six years on the Board of the Perth International Arts Festival.

At the presentation, he was described as understanding the complexities of the creative intent, the tension between artistic endeavour and financial responsibilities and the critical importance of accountability.

The Hon Peter Jones, a former Minister for Education, Cultural Affairs and Recreation, has been a key figure in the University's community outreach program for many years. He was a Board member of the Perth International Arts Festival and is currently Chair of the recently formed Callaway Foundation Committee.

Mr Jones has also been a patron of the University's Hackett Foundation since its inception in 1998 and has contributed significantly to its successful development, building a substantial 'second endowment' for the University.

Keith Abercromby, an engineer who graduated from UWA in 1952, has maintained a close association with the University the whole of his adult life. He was a member of the Standing Committee of Convocation, the UWA Graduates' Association, for 14 years and served on the Senate for nine years. During that time he was noted for his active membership of the Animal Ethics Committee.

Mr Abercromby is a regular volunteer at the University's Visitors' Centre and his medal recognised his outstanding contribution to the University through his sustained generous service in a variety of roles.

This team is the best — no argument



Sarah Knuckey, Ben Spagnolo, Andrew Lodder and Bronwyn Grieve are delighted to bring the national trophy 'back home' (Imogen Saunders was unable to join the group for this photo)

UWA's victorious Jessup Moot team were not concerned that they were travelling to Washington, a potential terrorist target, last week.

Being the political and legal animals that they are, the law students were eager to see from close range what was happening in Washington, how people there felt about the war in Iraq and how the US seat of power worked.

The winners of the Australian rounds of the Jessup International Law mooting competition once again upheld the impressive record of UWA's Law School. UWA students have represented Australia in Washington in the international finals seven times in the past nine years. They have won the Australian award for the best memorials (written work) four times in the past five years.

This year, Imogen Saunders was named best oralist in the finals and Ben Spagnolo one of the top 10 oralists in the preliminary rounds.

The team is one of the youngest to contest the Jessup Moot, three of the five having two or three years to go before finishing their law degrees. Between them, they are also completing degrees in fine arts, physics, political science, Latin and French.

The students spent every day of their summer vacation (with only Christmas Day off) preparing for the Australian rounds in Canberra in February. The problem set for the international law moot this year concerned the aftermath of a civil war with compensation claims for rape, slavery, bribery and corruption.

"We worked so hard but, once we

got to Canberra, we were so pleased because we were better prepared than the other teams," said team member Andrew Lodder.

"It was hard not to put so much into it because UWA has such a reputation in the Jessup Moot," said Sarah Knuckey, who was the chief researcher for the group.

Bronwyn Grieve is the only member of the team who has completed her law degree and will start work in the Crown Solicitor's Office when the team returns from the world finals in Washington

later this month.

Their coach was Julie Taylor, a member of the team last year which was runner-up in the world final. Others who helped the team were senior law lecturer Peter Johnston and last year's coach, Dr James Edelman.

All but one member of last year's team – Ben Gauntlett, Julie Taylor, Lee Carroll and Lorraine Van Der Ende – graduated with first class honours in law last week. The fifth member, Adam Sharpe, has a year to go before finishing his degree.

War strengthens resolve in Harmony Week

Harmony Week 2003 will be remembered as the week the war against Iraq began.

The irony saddened the people who devote their lives to working for racial harmony but gave an added impetus to Harmony Week events.

Specific activities at UWA were put aside in favour of supporting a big community walk in the city, *Walking On Common Ground*, in which all UWA students and staff were encouraged to participate.

UWA Manager Equity and Diversity, Beverley Hill, carried the UWA banner on the walk and said she did not notice any other universities so visually represented in the multi-cultural group.

Later in Harmony Week, UWA's

VisionWA conducted a public forum on *War, Humanity and Victory: Australia's Priorities?*

About 160 people gathered at the WA Museum to hear guest speaker Greg Copley, founder and president of the International Strategic Studies Association in Washington, lead the discussion with panel members Professor Jim Ife (formerly of UWA, now at Curtin), Dr Kabilan Krishnasamy, from our School of Social and Cultural Studies, and Wally Pritchard, President of Unions WA.

To finish the week, Professor Fiona Stanley delivered the Vice-Chancellors' Oration on the United Nations Day for the Elimination of Racism. The day marks the anniversary of the Sharpeville massacre where 69 people were killed when police opened fire in a peaceful protest against apartheid.

Professor Stanley talked about indigenous health and racism highlighting that health outcomes for indigenous people continued to be as bad as they had ever been in Australia.

Extension extends out from campus

Depending which day you visit UWA Extension Services, the offices might seem deserted.

Most of the staff now do most of their work at home, and the move is said to be improving creativity.

"The School of Population Health is expanding and suggested that they take over the rooms that we use as classrooms for our night and weekend classes," said Kim Roberts, UWA Extension's director.

"That would have been disastrous. We have built up a great community feeling around these classrooms. People feel safe coming here at night rather than trying to find their way around the main campus," he said.

Assistant director, Karen Reynolds said: "We had talked before about the work we did here not needing to be done from the office, so I bit the bullet and made the decision while Kim was on long service leave, keeping him in the loop of course," said Karen. "We gave away about 60 per cent of our space to Population Health and the five people who create our programs now work three days a week at home."

Everybody comes in to the office, on the Nedlands campus, on Mondays where they spend the day in the boardroom, working together and sharing ideas. They each come in to the office for one other day, rostered so they are not all there at once.

Kim works from home one day a week and, when he is on campus, shares his office with Karen.



Kim Roberts and Karen Reynolds ... their much smaller premises are often empty

"I think that people have to be prepared for change and that includes letting go of things that have been cherished in the past, like having a private office," he said.

Karen said the work done by the five people (including herself) who now work mainly from home is divided between creative and administrative work.

"The creative work is much better done outside these four walls, and technology makes it irrelevant where the administrative work is done," she said.

Each staff member has been given a laptop computer and the University has put broadband Internet access into their homes.

The only staff who continue to work five days a week in the office are the front office staff, who take enrolments, answer phones and have other dealings with the University and the public.

"It's been a seamless transition," said Karen.

"Callers are not told they are being transferred to somebody's home. All they know is that they are talking to a staff member."

Up to 40 per cent of Extension enrolments are now done on the Web and Extension staff expect that figure to continue to increase, freeing them up to work outside the office.

Kim, who chairs an international continuing education body, Learning Resources Network, said he was given an impromptu award at their recent meeting, for being the first continuing education office to become a virtual office.

Karen said the move was being watched by other sections of the University which were interested to see how working from home fared in the longer term.

Cyclists converge on coffee

The Vice-Chancellor measures his time at UWA in Bike Breakfasts.

A regular at the University Bicycle Users' Group (BUG) annual Bike to Breakfast, Professor Deryck Schreuder took the opportunity this year to say a few words.

"This is the sixth Bike to Breakfast, and my sixth – and final – year as Vice-Chancellor," he told a crowd of about 300 staff and students enjoying a free breakfast on the tennis courts after cycling to University during the recent Bike Week.

"One of the great pleasures of living in Perth and working at UWA is being able to get out my bike again and enjoy cycling around the river," he said.



He encouraged all staff and students to try to cycle to University at least once a week, not only for their health but to ease the parking problems on campus.

The successful breakfast, with prizes and free bicycle repairs, was a joint initiative of BUG, UWA Sport and Recreation and the Office of Facilities Management.

Resourceful school dominates conference



Taking a break at the conference: Tennille Graham, organiser of the salinity workshop, Sophie Thoyer, visitor to ARE from France, and Ben White, president of the WA AARES branch

The School of Agricultural and Resource Economics played a pivotal role in the recent Australian Agricultural and Resource Economics Society's (AARES) annual national conference.

Members of the school presented papers and ran pre-conference workshops and the keynote speaker was Associate Professor David Pannell, from the School and the CRC for plant-based management of dryland salinity.

The school is nationally and internationally recognised for its

work in environmental economics and agricultural economics, especially in relation to the sustainability of agriculture in WA. Papers were presented on risk management, salinity policy, agri-environmental auctions and natural resource management. (An agri-environmental auction is one where you ask farmers to 'bid' for the opportunity to engage in some environmental scheme: the ones with the lowest bids [that require the least money] will be the ones selected.)

Meteorologists, economists, insurance experts and farmers were drawn together by senior lecturer Dr Greg Hertzler in his pre-conference workshop *Managing Climate Risk*. The other workshop, *Dryland Salinity: economic issues at farm, catchment and policy levels*, reviewed much of the work being done across Australia on this issue, and provided an opportunity for the researchers working on the economics of salinity within the CRC, based at UWA, to come together.

Two graduates of the School of Agricultural and Resource Economics won conference prizes: Peter Dunn the first time presenter's award, and Ben Henderson the Masters thesis award. Emeritus Professor Bob Lindner was elected a Distinguished Fellow of the Australia Agricultural and Resource Economics Society in recognition of his contribution to the field.

The conference was held in Fremantle and attracted more than 200 national and international delegates.

Better crops from poorer soils

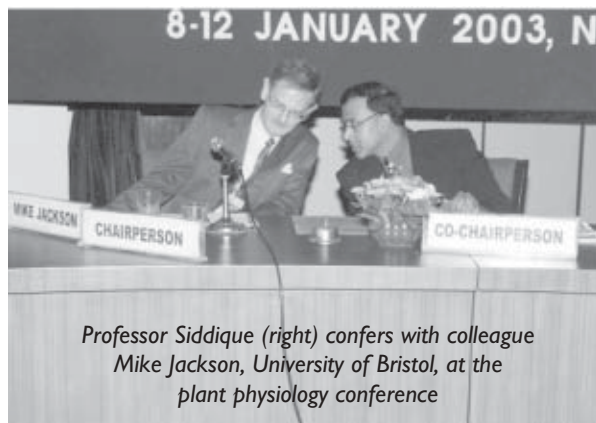
Plant scientists based at UWA are part of a green revolution which is focusing on building food resources on the world's deteriorating soils.

Professor Kadambot Siddique, Director of the UWA-based Centre for Legumes In Mediterranean Agriculture (CLIMA), and his team are part of an international push to dramatically increase pulse production to save the lives of 800 million people who go hungry every day.

Scientists pooled their expertise in India recently at international congresses of plant physiology and chickpea production.

Attending both conferences and meeting with local and international researchers, Professor Siddique pledged to help push production in countries where food is desperately short, and in WA, by exchanging suitable germplasm and co-operatively addressing production impediments.

Benefits will flow both ways, with



Professor Siddique (right) confers with colleague Mike Jackson, University of Bristol, at the plant physiology conference

CLIMA hoping to access promising technology.

"For example, the International Crops Research Institute for the Semi-Arid Tropics (ICRISAT) has developed cold tolerant chickpea germplasm which CLIMA and the WA Department of Agriculture has been using to develop robust varieties able to withstand WA's low inland overnight temperatures, which can knock returns by \$60 per hectare," Professor Siddique said.

"A spontaneous chickpea mutation identified in India has also been isolated and used as a donor parent for erect chickpea growth which, if incorporated into CLIMA breeding programs, could enable local growers to better harvest chickpea with cereal headers.

"Like CLIMA, our collaborators overseas are progressing on many fronts. Germplasm exchange and technology transfer, between like-minded partners, can advance crop science here and in Asia.

"This Grains Research and Development Corporation supported conference travel allowed us to window shop for what we need and also to see what we can provide," Professor Siddique said.

For its part, CLIMA will provide genetic resources and breeding technologies to help countries such as India overcome productivity challenges that have seen chickpea yields drop in recent years.

The Seven wonders of UWA

This is an edited version of a farewell speech by
Wendy Edgeley
recently retired Director, University Secretariat
Secretary of the Senate

On joining the University some 23 and a half years ago, I was told it was a great privilege to work at UWA. I thought it a somewhat quaint old fashioned notion but now that I too have grown quaint and old-fashioned, I look back and know that it was absolutely right.

UWA has been a wonderful place to be, and a fulfilling place to work. I would like to share with you, at the end of my career, my personal seven wonders of UWA.

The first is its sheer beauty. This has been a source of inspiration and pleasure on almost every day of my working life. There has always been something to delight the eye - a flotilla of ducks on the pond in the sunken garden, a poinciana laden with scarlet blooms, perfect reflections of Winthrop Hall in the pond, or a glimpse of flowering shrubs through an arch at the end of a cloister. And there is always that magic moment each year when the drift of scented oil from the warming Cypress trees tells you that summer has arrived.

The second wonder of the University has been its capacity to provide rewards other than the financial. Many staff are in the fortunate position of being able to make a huge difference to the lives of the students. Academic staff do this very directly; depending on their particular role, administrative staff less obviously but still very significantly.

Throughout the mid-eighties I helped with the nominations for non-standard places in Arts. Twelve years after she left UWA, a letter from one of my candidates arrived. It said, among other things:

I want you to know how grateful I am for the opportunity you gave me of studying at UWA. I've been teaching for more than six years and each of my children has attended Uni. The older two have graduated and the youngest is in her first year. You indirectly contributed to their futures too. You opened doors, worlds and minds for me. Thank you.

The third wonder of UWA has been its capacity to move me (and others) I love tradition and ceremony, and the formal marking of important life events, and I have therefore always enjoyed the Graduation ceremonies. I have watched many and as the procession moves up Winthrop Hall, with its panoply of hats and colourful gowns and hoods dating back centuries, the odd tear has sprung to my eye.

The fourth wonder has been the way that UWA has provided an enormous degree of self-education for me, and I hope made me a better person. However, if ever I got to the point of being a bit pleased with myself, something or someone has chopped me off at the knees. When I was first chair of the Legislative Committee, I asked the then FAO in Agriculture to change a regulation in which the word 'only' had been wrongly placed. She said that she saw no point in changing it, and would not do so unless I could explain clearly and simply why it was

important. I said I would get her a few examples of how misplacing the word 'only' could result in a completely different meaning for a sentence.

I then consulted Fowler's English usage. I can clearly remember reading smugly a perfect example of the incorrect use of 'only' which proved how right I was — and I was on the point of completing the reading with a self-satisfied 'There you are' when the text went on to point out that while the example was technically correct only the very worst sort of pedant would insist on this usage!

A fifth wonder has been the University's capacity to reveal to me previously unsuspected facets of my own personality. For this I owe a huge debt to John Jory, with whom I worked in Arts. My character is fundamentally calm, placid, amiable and reasonably even-tempered. John has a fiery Celtic volatility and loves nothing better than a really good fight. He saw it as his mission in life to liberate me from my upbringing. He worked assiduously on my behalf, trying out different combinations of irritants with astonishing persistence until he hit the jackpot. A whole new Wendy Edgeley emerged - I shouted, stalked about in high dudgeon, eyes flashing with rage, steamed out into the corridor, and slammed the door, hard. It was a performance worthy of an Oscar, had it not been for the fact that I caught the sleeve of my dress on the door handle and ripped it. I hardly ever repeated that performance, but nothing could be the same and it wasn't long before John was suggesting that I do de-assertiveness training.

A sixth wonder has been the University's ongoing capacity to entertain and amuse. I have never been bored at UWA. The place is full of fascinating people, extraordinary and often outrageous behaviour, and offers a kind of ongoing upmarket soap opera. For example, there was the wonderful time when, in the middle of a very tedious selection meeting, a Professor of Anthropology suddenly leapt to his feet, shouting "Oh my God, a beetle has flown up my nose"; and the time when we held a meeting in the Dean's Room in Arts, and the Dean having fallen soundly asleep in the middle of it, the rest of us tiptoed out and left him to it.

The seventh - and probably the greatest wonder of UWA — has been the people. I have worked closely with many wonderful, warm, intelligent, thoughtful and entertaining people. I have always worked in an environment where there is good humour, fun and laughter. The social side of our working lives has regrettably diminished in recent years because of workloads, but warmth and friendliness will out. There is the walk from the carpark to the building in which you might learn that one of your colleagues is a keen beach comber or started Spanish dancing lessons, the exchanges at the basins in the ladies loo about weekends, children, hairstyles, and conversations during tea making sessions in the kitchen when everything from films to cake recipes, to pets is discussed with whoever might happen to be there. These short and human interactions are the stuff of happy workplaces.

Thanks to all of you here for being part of my rich, rewarding and enjoyable life at UWA.

THE **last word**

Research Grants & Contracts

UWA RESEARCH GRANTS SCHEME

A/Prof Andrew Lynch, Social and Cultural Studies: 'The modern transformation of medieval war literature'— \$21,500 (2003).

Ms Tomoko Nakamatsu, Social and Cultural Studies: 'Contesting gender relations through choice of grave site in Japan'— \$6516 (2003).

Dr Saul Newman, Social and Cultural Studies: 'Power and democracy: the place of power in political discourse'— \$4671 (2003).

Dr Brenda Walker, Social and Cultural Studies: 'Sound, anxiety and confessional narrative in the fiction of Poe, Beckett and Banville'— \$6000 (2003).

Dr Yi Wang, Social and Cultural Studies: 'Globalisation, media and rural residents: a textual analysis of media representations of rural residents in China'— \$19,000 (2003).

Ms Donella Caspersz, Economics and Commerce: 'Human resource practices in family business: a Western Australian study'— \$11,273 (2003).

Prof Michael McAleer, Economics and Commerce: 'The econometrics of intellectual property'— \$14,500 (2003).

Dr Abu Siddique, Economics and Commerce: 'Immigration and demand for imports in Australia: is there a link?'— \$15,000 (2003).

Ms Fiona Scott, Graduate School of Education: 'Reflecting to learn and learning to reflect: using action learning to generate organisational culture change in a lean production factory'— \$10,151 (2003).

Mr John West, Graduate School of Education: 'Recognition and interpretation of facial expressions by children, adolescents and adults diagnosed with attention-deficit/hyperactivity disorder'— \$15,446 (2003).

AUSTRALIAN RESEARCH COUNCIL: DISCOVERY PROJECTS

Dr Sandy Toussaint and **Dr V. Strang**, Social and Cultural Studies: 'Under water: a comparative ethnographic analysis of water use and resource management in Queensland and Western Australia'— \$686,000 (2003-07).

Prof David Trigger, Social and Cultural Studies: 'Nature, culture and belonging in urban landscapes: an anthropological investigation into environmental beliefs, values and practices in Perth, Western Australia'— \$246,000 (2003-06).

Prof Kenneth Clements, **A/Prof G A Selvanathan**, **Prof Haji Izan**, Graduate School of Management, and Economics and Commerce: 'Stochastic index numbers and their application in accounting, economics and finance'— \$126,000 (2003-05).

Contact Directory Update

ONLINE AND HARD COPY

The Publications Unit is pleased to announce that it has completed its annual update of the staff entries in the online Directory. Staff are encouraged to access the online Contact Directory because it contains the most up-to-date information and provides comprehensive search facilities.

For staff who require a hard copy of the Contact Directory current as at March 2003, the Publications Unit has made available a range of PDFs which can be downloaded for printing. Users also have the option to place an order with UniPrint for a hard copy of the complete Contact Directory current as at March 2003. The deadline for the first round of orders is Friday 18 April.

Both the PDFs and the order form for the hard copy Contact Directory can be accessed from the following web page:

<http://www.publishing.uwa.edu.au/directory/>



Do you speak one of the less well-known languages of Africa, Asia or the Pacific?
And would like to earn some money?

Linguistics is looking for a person to assist with a Field Methods course to be taught in second semester 2003. The work will require 2-3 hours per week through most weeks of the semester. Some flexibility is possible in the class times.

The assistant does not need any special skills or any background in studying linguistics. You only need to be a fluent speaker of one of the less well-known languages of Africa, Asia or the Pacific and a good speaker of English.

Contact: Dr John Henderson, Linguistics
Room 2.47 Social Sciences Building, ph: 9380 2870
john.henderson@uwa.edu.au



CAMPUS Diary

7 - 21 April

WEEKDAY MASS

5.15pm, Mon to Fri: St Thomas More College chapel. Catholic chaplain (ext. 2405).

Monday 7 April

PLANT BIOLOGY SEMINAR

'Evolution in action: plants evolving herbicide resistance. An overview of WAHRI research', Prof Steve Powles. 4pm, Agricultural Lecture Theatre.

Tuesday 8 April

PERTH MEDIEVAL AND RENAISSANCE GROUP TALK

'Writing, painting and mercantile practice in Boccaccio's *Decameron*', Olivia Mair, English. 7.30pm, English, Communication and Cultural Studies, Ground Floor Staff Common Room, Arts Building G13/14.

PSYCHOLOGY COLLOQUIUM

'Time and memory: a scale-invariant model', Gordon Brown, Warwick University. 11am, Room 2.33, North Block, Psychology Building.

Wednesday 9 April

GEOGRAPHY SEMINAR

'The geography of innovation networks in small- and medium-sized global city regions', Peter Morris. 12noon, Geography Lecture Theatre 1 (Ground Floor).

Thursday 10 April

PLANT BIOLOGY SEMINAR

'Ecologically engineered solutions toward sustainable agribusiness and industry in Queensland', Brett Roe. 4pm, Agricultural Lecture Theatre.

FREE LUNCHTIME CONCERT

Totally Huge New Music festival Composer-in-Residence, Vu Nhat Tan, presents original works on both traditional Vietnamese and western instruments. The program also features two works from the Festival's *Breaking Out* program for young Western Australian composers. 1.10pm, Winthrop Hall.

Friday 11 April

UNIVERSITY MUSIC SOCIETY 'CELEBRATION' SERIES

'Ethereal Contemplations', a journey through an enchanting ethereal sound world. Music of the spirit spanning four centuries, from Bach to Steve Reich, Arvo Part to Gesualdo, performed in Winthrop hall and specially lit to evoke the grandeur of the great cathedrals. 7.30pm, Winthrop Hall. Book through BOCS outlets on 9484 1133 or the Octagon Theatre on 9380 2440.

LAWRENCE WILSON ART GALLERY TALK

'Dark Secrets: the works of Susan Norrie', John Barrett-Lennard. A talk by John Barrett-Lennard, curator of 'eddy: Susan Norrie' an exhibition at Lawrence Wilson Art Gallery until 1 June. 1pm, LWAG. Contact: Janice Baker, ext. 3709, jbakera@admin.uwa.edu.au .

JOINT BIOCHEMISTRY/PHYSIOLOGY SEMINAR

'Ironing out divalent cation transport: Nramp homologues in animals and plants', Prof David Day and Dr Phil Oates. 1pm, Simmonds Lecture Theatre.

MICROBIOLOGY SEMINAR

'Genetics and genomics in infectious disease', Prof Jenefer M. Blackwell, Glaxo Professor for Molecular Parasitology, Cambridge Institute for Medical Research. 1pm, Microbiology Seminar Room 1.1, First Floor, L Block, QEII MC.

Monday 14 April

PLANT BIOLOGY SEMINAR

'Proteomics and genomics of apple scab disease', Dr Kim Plummer. 4pm, Agricultural Lecture Theatre.

Tuesday 15 April

ANATOMY AND HUMAN BIOLOGY SEMINAR

'Appreciating Indian classical music', Dr Avinash Bharadwaj. 1pm, Room 1.81, Anatomy and Human Biology. Contact Debbie Wright, ext. 3290, dwright@anhb.uwa.edu.au .

INSTITUTE OF ADVANCED STUDIES

'When machines get smarter, will they still need humans?' and 'When gene replacement becomes routine, will humans separate into different species?', Professor Michael Arbib, USC Brain Project, University of Southern California. 11am and 2pm (including lunch). For more information and to register please contact Terri-ann White of the Institute of Advanced Studies on 9380 2114 or email tawhite@cyllene.uwa.edu.au.

SOIL SCIENCE AND PLANT NUTRITION SEMINAR

'Novel fertiliser compounds for sandy soils', Hsien Lim, Mineralogy. 4pm, Agriculture Lecture Theatre.

PUBLIC LECTURE/INSTITUTE OF ADVANCED STUDIES

'Human dialogues with machines: a user interface perspective', Professor Chin-hui Lee, School of Electrical and Computer Engineering, Georgia Institute of Technology, Atlanta. 6pm, Geography Lecture Theatre 1. All welcome. Enquiries to Institute of Advanced Studies, 9380 1340.

Wednesday 16 April

PUBLIC LECTURE

'From pristine to poisonous at Phaino: environmental archaeology of the Wadi Faynan, Jordan', Prof David Gilbertson, Emeritus Professor at the University of Wales and University of Portsmouth. 6.30pm, Austin Lecture Theatre, Arts Building. Free and open to the public.

GEOGRAPHY SEMINAR

'The geography of small and medium enterprises and e-business', Prof Mike Taylor, University of Birmingham. 12noon, Geography Lecture Theatre 1 (Ground Floor).

Thursday 17 April

CHEMISTRY SEMINAR

'The monomethyl radicals of zinc, cadmium and mercury', Emmanuel Karakyriakos. 5.15pm, Simmonds Lecture Theatre.

LAWRENCE WILSON ART GALLERY TALK

'Urban disasters', a public talk by Dr William Taylor, lecturer in architectural history and theory in the School of Architecture, Landscape and Visual Arts. This talk is part of the public program for the exhibition 'eddy: Susan Norrie' at the Lawrence Wilson Art Gallery until 1 June. 1pm, LWAG.

FREE LUNCHTIME CONCERT

'Sweet Suite', Graeme Gilling and Jana Kovar, the heads of piano studies from UWA Music and WAAPA at ECU join forces to perform Faure's *Dolly Suite* Op36 and Rachmaninov's Op11 *Morceaux de concert*. 1.10pm, Octagon Theatre.



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11 May to 23 May

PROFESSOR-AT-LARGE VISIT 2003

COMPUTING LIFE WORKSHOP

INSTITUTE OF ADVANCED STUDIES PROGRAM

The Institute of Advanced Studies is proud to announce the visit of Klaus Schulten (Theoretical and Computational Biophysics Group, University of Illinois) and Zan Luthey-Schulten (Associate Professor of Chemistry).



The workshop will explore physical models and computational approaches used to describe living systems at the molecular and gene levels. Lectures will be based on case studies including membrane channels, mechanism of molecular motors, signalling pathways, visual receptors, and photosynthesis. Physical concepts mathematical techniques and computational methods required will be introduced, including force fields and algorithms used in molecular modelling and bioinformatics algorithms.

For lecture information and registration, please contact

Terri-ann White at the Institute of Advanced Studies:

tawhite@cyllene.uwa.edu.au.

Research Grants & Contracts

Continued from front page

Prof Stephen Houghton and **Dr A C Carroll**, Graduate School of Education: 'Emotionally provoking events in classrooms and during transitions: developing self-regulatory programs for children diagnosed with Attention Deficit/Hyperactivity Disorder'— \$132,000 (2003-05).

Mr Mark Cassidy, Centre for Offshore Foundation Systems: 'Development models for the three-dimensional analysis of jack-up structures'— \$227,000 (2003-05).

FOREIGN AFFAIRS & TRADE (ACIAR)

Prof Kenneth Clements and **Dr Yanrui Wu**, Economics and Commerce: 'International comparison of feed consumption patterns'— \$21,556 (2003).

UNIVERSITY POSTDOCTORAL RESEARCH FELLOWSHIPS

Dr Michael McLure, Economics and Commerce: 'Fellowship - a new parietan approach to public finances and fiscal sociology'.

Classifieds

FOR SALE

2 X 2-SEATER COUCHES, soft pink leather-like upholstery. Strong, solid frames and in very good condition. Will sell separately. \$350 each. Contact Margrit on ext. 2165.

MINI/CHRYSLER GALANT GB 1973 sedan, light-blue, spirited 1600cc engine, 3-speed t-bar auto. New alarm with central locking + immob. CD stereo with sub and amp. Window tinting. 4 months rego. Ideal student car. \$1600 Ph: 0419 950 628 or email: derek.ellerton@uwa.edu.au

NISSAN PULSAR 1989, white 5 dr hatch. Lady owner, regularly serviced, 1.6 litre, t-bar auto. 5 months rego, new window tint. Good 2nd car or reliable student car. \$3300 Ph: 0419 950 628 or email: derek.ellerton@uwa.edu.au

FOR RENT

GLYDE ST, MOSMAN PARK, 2-3 bedroom furnished house available from 1 April to 1 July. Close to river, ocean, shops etc. Rent negotiable. Contact Ian Walton on ext. 3105 or email: iwalton@ee.uwa.edu.au, gel@csse.uwa.edu.au.

MIGRAINE AND VISION STUDY

Migraine is a common headache disorder that is usually associated with visual disturbances. The effects of repeated migraine attacks on aspects of vision have not yet been fully investigated. This is the subject of several clinical studies being run within the School of Psychology.

Volunteers are invited to participate in a study comparing visual functioning in individuals who suffer migraines and those who do not.

Who can participate?

1. People who experience migraines (it is not necessary to experience visual symptoms with migraines to be eligible to participate).
2. People under the age of 40 years.

What will happen during the study?

You will be asked to attend 2 testing sessions that will include:

- 1) An eye examination. These are completed to determine whether you are eligible to participate in the study.
- 2) Computerised measures of vision. The experiments will require observers to sit in a dimly lit room and observe a computer screen. We will be testing your ability to detect moving spots and arrangements of line segments.

How long will it take?

The first session will take about 1.5 hours, while the second session is much shorter and takes approximately 45 minutes.

Reimbursements for travel expenses

In order to defray the cost of coming to the testing sessions you will be reimbursed \$10 per session.

E-mail: ditchj01@tartarus.uwa.edu.au or phone: 9380 3468.

This project is approved by the UWA Human Research Ethics Committee Project #0201



Redundant Equipment for Sale

ITEM	PRICE	AGE	COND.	DEPT.	CONTACT
7 x DEC Celebris FX2, PI 166MHz, 64 MB memory, onboard NIC, 2GB, HDD, 4x generic CD ROM, 15" monitor (CD ROM may require replacement) and 2 x PI 200MHz, 64MB memory, 10Mbit, 3GB HDD, 15" monitor	\$120	—	3	Adrian	3925
PI 100MHz, 64MB memory, 550MB HDD	\$50	—	3	Adrian	3925
3 x Macs: MAC 7200 (2) and MAC Performa 580 (1)	Offers	—	—	Sue Lewis	2116
G3 Desktop, 17" Triniton monitor	\$600	5	1	Linley	2086

Bids should be accepted by Monday 21 April with schools to have first option

Schools are reminded that all University equipment available for sale must be advertised in the **UWAnews**. 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.