



Up, up and away



Our cancer researchers sought overseas

Washington, Paris, Singapore, Germany, Rotterdam, Los Angeles . . . just a few of the places where postgraduates from UWA's Department of Surgery are in demand.

Dr Barry Iacopetta, senior lecturer in the Department of Surgery, has always recommended his postgraduate students are exposed to overseas research environments in the course of their studies.

And they usually make such a good impression that they are asked to stay.

Dr Barry Iacopetta (left) with another team of brilliant postgraduates: Nirosha Suraweera, Brenda Powell, Bev Shannon and Dr Hany Elsaleh.

Cancer research around the world is being boosted by PhD students and postdoctoral fellows from Dr Iacopetta's laboratory.

A few years ago, Dr Richie Soong was offered postdoctoral postings in Germany and Singapore, before he'd even

Continued on page 4

Anybody want to challenge Pinchy?

The battle of the mascots is on . . .

This is Pinchy, the blue marron, who keeps staff in the Mechanical and Materials Engineering workshop entertained.

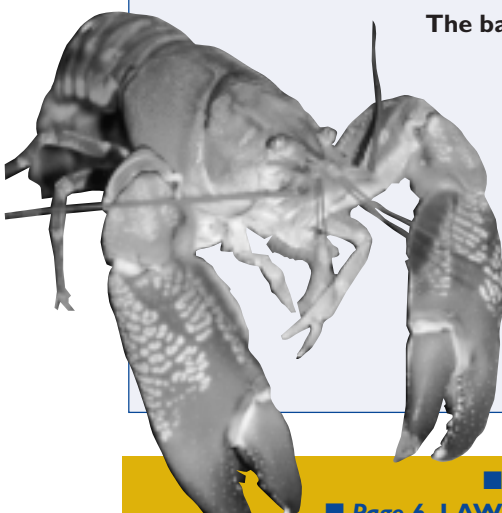
Senior technician Steve Armitt reckons he would beat Oscar the budgie (Zoology's mascot, featured in UWA News in June) hands down . . . in an underwater race.

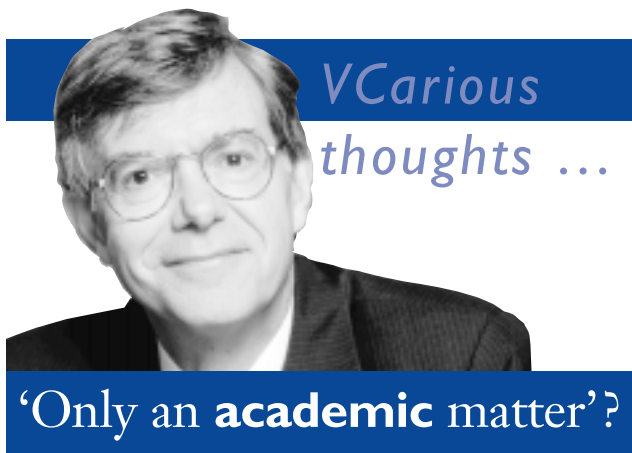
"Mind you, he's not too good at flying or talking, but what a personality!"

Another senior technician, Mike Reid, bought Pinchy from a pet shop and installed his aquarium near the door to the workshop "to give the place the ambience of a doctor's surgery".

Our black and white photograph can't do justice to Pinchy's brilliant blue shell but the technicians are confident he would win any beauty competition between department mascots.

Any takers?





That common phrase — “It’s only academic . . .” or “It is just an academic matter . . .” — seemed even more odd than usual when I heard someone use it in a week full of media discussion about academics, the ‘knowledge nation’ and the ‘new economy’.

Apparently, by accident, yet with cumulative power, we have suddenly had a series of national debates concerning education and the educators.

Consider: a discussion about the crisis in school teaching . . . a fierce debate about the value of the humanities to the nation . . . a resurgence of the ‘brain drain’ scare, led by a departing scholar . . . a sharp rejoinder, which put the blame back on academics for having failed the nation . . . plus some coverage of a wide-ranging survey of the academic workplace which found it a highly stressful place . . . and a long and powerful editorial in a national weekend paper, which blamed many of these ills not only on underfunded state universities, but also on the Commonwealth policy framework which has prevented universities from being more self-reliant, through over-regulation by DETYA.

It was quite a week on the Australian campus, so to speak. But it was fortunately ‘only academic’! The nation soon returned to GST stories.

Our own University is quite a good sampler for measuring the deeper realities behind these education headlines. In a previous *UWA News* column I wrote about the meeting on campus of the National Science Teachers’ Association, which addressed the specific issue of a shortage of science graduates entering the profession, and the more general problem of a profession under considerable strain. As Susan Mitchell has subsequently written, in an excellent article in *The Australian*, “Teachers are today on a hiding to hell and back. It is no longer regarded as a noble profession to which only the gifted are called. It is no longer regarded as a profession. It is no longer regarded.”

The status of teachers, and the need to value them more highly (including financially), was the central argument of a major Commonwealth Report, *A Class Act*, issued a few years ago. But it would be hard to say the situation has materially improved.

And yet the consequences are potentially dire. “Unless our teachers are recruited from among the brightest and best minds in each area of study”, Susan Mitchell concluded, “we will simply not be able to keep up with the rapid changes engendered by the technological revolution. The

countries that will prosper in this century will be those that have invested in their teachers.”

I would say the same is absolutely true about our university teachers. If we want to create the kind of intellectual base, plus the human resource-base of the knowledge nation, the academic community is absolutely crucial. Not only is it now substantially established that new knowledge, new economies and new jobs are integrally related to basic research, leading on to innovation, but that the learning experience of a university degree — undergraduate or postgraduate — is the critical empowering force for the twenty-first century citizen.

Once again, however, it is plain that academe is an increasingly demanding professional environment.

Just why this is so has provoked many impassioned explanations. Perhaps the most provocative has come from Dale Spender in *The Australian* this past week (26 July) with her pungent article: “Globalisation not just academic: Universities are their own worst enemies”.

Working from Peter Drucker’s well-known critique — university campuses will be relics in 30 years time (thanks to the IT revolution and globalisation) — Dale Spender portrays academics as their own worst enemies. We have turned ourselves into victims.

And how? “It is all very well for members of the academy to argue that it is because they have no money that they cannot do a good job. Yet it is possible to argue quite the reverse. That it is precisely because they aren’t doing a good job. It is because they have lost the respect and status that they once enjoyed, that the government can afford to keep the universities poor . . .”

That failure, says Spender, relates to the isolated character of academe, not being fully integrated into the needs of the new knowledge nation. “The source of this mismatch is blindingly obvious. The emergence of the new technologies is no academic matter. That is the problem”.

Would that our problems were so simple!

The reality is both more complex and tougher to overcome. Expectations of a quality university such as ours are now huge. We must sustain the core generic disciplines of the arts and sciences, undertake advanced research, provide professional training, integrate knowledge and industry and contribute to the public policies and public values of our nation, itself experiencing an extraordinary global era of transformation.

Yes, we must work more smartly, be more income self-reliant, create borderless education environments of cross-disciplinary knowledge, interactive lifelong learning . . .

But the resource base to the policy environment is important. And here our governments and industry need to do more to invest in higher education, in universities and their staff. Our commitment and professionalism requires major support.

In this twenty-first century, that is becoming more than merely academic.

Deryck M. Schreuder
Vice-Chancellor and President
vc@acs.uwa.edu.au



Department of History

From national parks to national identity



Dr Jane Carruthers ... discovered that her benefactor had also been interested in South African political history.

Despite the enormous difference in population dynamics, Australian and South African societies have a lot in common.

Dr Jane Carruthers, the Department of History's 2000 Fred Alexander Fellow, says the way indigenous and non-indigenous people in both countries relate to the land is very similar.

"We can learn a lot from each other about land and identity, land restitution issues and the historical links between nationalism and the conservation of aspects of the natural environment," Dr Carruthers said.

"For a long time, there was no communication between our countries. The white South Africans who were in favour of apartheid cursed the Australians who upheld sanctions against their country.

"But now we're speaking again, we realise that we share a colonial history and that we are all very much affected by where we live: our sense of who we are comes from the land," she said.

Dr Carruthers said history was a beleaguered subject, suffering, along with the other arts, from a swing to IT and business studies.

"But in these days where so many people find they are inventing their own jobs, the study of history is most helpful. It teaches people to think creatively and read

analytically — good grounding for creating a niche for themselves."

Dr Carruthers' immersion in history began with an interest in nature. She began a history of the Kruger National Park.

"It became clear to me that politics is an over-riding consideration when it comes to decisions about national parks. From the politics of land, I moved on to the politics of land restitution and became involved in community conservation and aspects of rural community development."

She says she has enjoyed talking about South African issues with postgraduate students.

"We have the same frame of reference and I'm pleased to be able to inform them of the current and living history of South Africa. I visited Australia last year and, back in South Africa, I am also able to feed Australian material into what I teach my students at the University of South Africa.

"I feel privileged to be here and to facilitate this sharing between our countries and our universities."

Dr Carruthers said that Fred Alexander had visited South Africa for five months in 1949-50 and had recorded some insightful comments about South African political history.

Some of Professor Alexander's reflections and reminiscences are in the UWA Press publication *On Campus and Off*.

Women's award at water centre

The Centre for Water Research's Caroline Wood has been selected as a state finalist in the Telstra Business Women's Awards 2000.

The manager of the centre is one of seven finalists judged on their achievements, communication skills, performance, leadership, motivational ability, personal development, managing and decision-making, innovation and creativity and community involvement.

Professor Jörg Imberger, Chair of the CWR, said Ms Wood (pictured) had been responsible for introducing a series of highly innovative strategies at the centre, in order for it to remain a viable internationally-recognised research organisation.

"Caroline has successfully combined a career, family life and commitment to the wider community, including a deep commitment to Amnesty International. We are very proud of her achievements," he said.



Continued from page 1

completed his thesis. His colleague Dr Brett Dix was head-hunted by Professor Anthony Braithwaite in Dunedin, New Zealand, the world leader in his highly competitive field of specific cancer research.

Currently, Dr Iacopetta's lab has four shining postgraduate students on their way to Paris and Rotterdam and winning prizes and awards from the top international cancer research institutions.

Brenda Powell, Bev Shannon and Nirosha Suraweera are all science graduates part-way through their PhDs.

Ms Powell's special area of research is breast cancer and she was awarded the UWA Graduates' Association and John Nott Cancer Foundation Travel Awards to carry out part of her work at the Josephine Nefkens Cancer Research Institute in Rotterdam. She has already been offered a postdoctoral position once she finishes her PhD.

Bev Shannon's possibility for collaborative work overseas is restricted by family commitments but Dr Iacopetta said she would be snapped up if she was available. Ms Shannon is studying an important new form of genetic alteration in bowel and breast cancer referred to as DMA methylation. She has recently had work accepted for publication in *Cancer Research*, her fields' most prestigious international research journal.

Nirosha Suraweera is in the first year of her PhD but is already in Paris to spend 12 months in Dr Richard Hamelin's laboratory. Her work on another form of genetic alteration in bowel cancer is part of an ongoing collaboration between Dr Hamelin and Dr Iacopetta, which has also resulted in publications in *Cancer Research* and *Oncogene* in the past year.

Dr Hany Elsaleh, who is a medical graduate from UWA and has passed his Radiation Oncology college examinations this year, is close to finishing his PhD in molecular genetics and has had a paper published in the highly revered *Lancet* in May (in association with colleagues).

His translational research (known colloquially as bedside to bedside), applying knowledge of the molecular

basis of cancer to improve the management of cancer patients, adds an important dimension to his medical research.

“It's important for the students to be exposed to other research environments ...”



Dr Elsaleh recently won a John Nott Travel Award to follow up in north America the work he published in *Lancet* this year.

This research shows how molecular analysis of tumour DNA can be used to provide new insights into the likely response of bowel cancer patients to

chemotherapy. He presented this work at a plenary session of the American Society of Clinical Oncology in New Orleans in April.

Over the past year he has made presentations to international conferences in Boston, Washington, New Orleans, Los Angeles, Houston, London and all around Australia. He has had more than 20 publications in prestigious journals, including *International Journal of Oncology*, *Radiotherapy and Oncology* and, of course, *Lancet*.

He was awarded a \$10,000 Sir Charles Gairdner Hospital research grant this year.

“Every time Hany makes a presentation at a conference, he wins a prize,” Dr Iacopetta said. “It's being a clinician that makes the difference to his approach.”

While modestly proud of his students, Dr Iacopetta doesn't condone a brain drain from Australia.

“It's important for the students to be exposed to other research environments and it's obviously of great benefit to them when seeking postdoctoral positions. But it also helps them see that we are not as isolated as they might think we are.

“And, of course, all their travels are most beneficial to UWA because of the scientific collaborations and exchanges they nurture,” he said.

Looking at literacy-employment links

Alarm bells rang when an Australian Bureau of Statistics literacy survey revealed that almost half Australia's population between the ages of 15 and 73 had trouble coping with the literacy demands of daily life.

Previous UWA research had already shown that low literacy/numeracy skills reduced job opportunities, and for economist Professor Paul Miller, the recent survey has underscored the need for more research in this area.

“English language skills are among the most important an individual can possess to participate fully in the labour force and in society,” he said.

Funding from the Australian Research Council will enable UWA to study the causes and consequences of English language deficiencies, and gauge the merits of self-assessed versus test-based measures of English skills with a view to assessing the quality of data available.

The information will help identify ‘at risk’ groups and provide guidance on remedial action.



How do we define excellence and merit?

“The Equity Office promotes and supports UWA’s vision to provide an inclusive environment which acknowledges and celebrates diversity — which recognises, utilises and values the abilities, the skills and ideas of all our people, irrespective of ethnicity or religion, sexual orientation, educational level, socio-economic background, age, disability or family responsibility.”

Issues such as these are the new focus of UWA’s Equity Office, rather than simply assuring compliance with equal opportunity legislation.

Equity, with its new project manager Malcolm Fialho (pictured above), is moving towards diversity, in line with higher education institutions around Australia and in north America.

“Equity is not about target groups and quotas any more,” Mr Fialho said.

“Culture change is the core issue. We need to change our thinking about issues such as what constitutes merit and excellence. We must question it: are we using multicultural terms of reference?

“It’s what some detractors have called ‘lowering the bar’. But it’s not lowering the bar, it’s widening the door!” he said.

Mr Fialho’s appointment in February as diversity project officer is part of the University’s commitment to embracing diversity in the community.

“My appointment is consistent with UWA’s mission and

strategic plan: wanting the staff profile to reflect the community,” he said.

Mr Fialho has a master’s degree in cross-cultural psychology and has worked for 12 years in the multi-cultural sector, mainly in the area of social justice.

“My academic and working life has been largely in the area of race and I’m looking forward to the challenge of helping the University community deal with transgender issues, disabilities, age and cultural differences.

“Being a person from a culturally different background fuels my passion for this work.”

His projects since the beginning of the year have included International Women’s Day, Harmony Day, the Law and Religion project and a very successful diversity skills “audit” for Student Services.

Diversity courses have been offered through the Centre for Staff Development and Mr Fialho has also created a blueprint to encourage an inclusive environment for all staff. The draft of this document, the UWA Workforce Diversity Plan, will be circulated soon.

CALL FOR PROPOSALS

TEACHING AWARD 2000/2001

This is a call to individual academics by the *Institute of Advanced Studies* for proposals to convene a short program of activities on campus. The aim of the initiative is to stimulate cross-disciplinary scholarship.

We are seeking proposals for projects to commence planning in late 2000 and run through 2001. The Institute has a commitment to support and promote innovative and collaborative research, and is therefore encouraging proposals for short programs that may attract scholars from across departments and faculties.

The successful applicant will be offered a Teaching Award (valued at \$13,500 to cover one semester) to convene such a program. Some administrative and publicity support will be made available from the IAS, and it would be expected that some additional support may come from department or faculty level. Funding may be used for a variety of activities, including a regular series of on-campus seminars for scholars from various departments and visitors to UWA, or hosting a workshop or conference. The project will be necessarily constrained in its timing, but may provide the groundwork for a more ambitious

future program. It should explore issue/s of academic and public importance.

Of particular interest to IAS are projects which may not ordinarily be part of the work that occurs within departmental or faculty structures. Involvement by individuals or sectors outside of the academic community as well as projects which engage in wider contemporary debates will be favourably considered.

Deadline for proposals is August 30. Proposals must not exceed two written pages and should provide details of the broad parameters of the project including anticipated speakers and visitors and the range of intended activities.

Proposals should include a clear statement of themes and outcomes and argue the case for the relevance and timeliness of the project. The selection process will include advice from members of the Advisory Board of IAS. It is anticipated that decisions will be made by the end of September.

We encourage prior discussion of your proposal. All enquiries should be directed to: Terri-ann White, Academic Executive Officer, tawhite@cyllene.uwa.edu.au



NO ARGUMENT: *legal fledglings rule the roost*

Kathleen Foley, Belinda Buschenhofen and Lee Carroll celebrate their win.

UWA law students excelled at a recent Asia-Pacific forum in Melbourne, where they won two out of four competitions.

The occasion was the annual conference of the Australasian Law Students' Association, when students from Australia and New Zealand came together to discuss contemporary issues and match their skills against one another.

UWA won both the mooted competition (which involved arguing points of law in front of a judge) and the student's paper competition (an essay on a legal topic).

In the mooted competition, students Kathleen Foley, Belinda Buschenhofen and Lee Carroll presented the

winning argument, and Kathleen Foley also carried off the prize for the best 'oralist' in the mooted grand final, despite advocacy not being officially part of the law course. Ben Playle won the best student paper award.

Hosted by Monash and Deakin Universities, the annual conference is a unique event, according to Mark di Renzo, President of the Blackstone Society (the UWA law students' association) in that few other faculties offer students the chance to meet and discuss topical issues with their peers from around the country.

"It is a really good forum for association presidents to find out more about the kinds of services being offered to students in other law schools," he said.

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A Kosmic conspiracy to improve hearing tests

A four-way collaboration between the private Perth company Kosmic Sound and Lighting, the national government, a biomedical engineering student and the Department of Physiology will produce more cost-effective test equipment for testing for hearing loss.

Testing infants for deafness is a costly process, partly because the equipment needed to measure the small signals from the ear and brain comes at a very high price.

Each "evoked response averager", must generate the complex sound signals to stimulate the ear, amplify and filter the microvolt signals from the child's head, and then average and analyse the signals that are found.

Equipment costs (\$20,000 to \$40,000) is one of many factors that has limited the availability of such testing, especially when screening for hearing loss at maternity hospitals. About 21,000 babies are born in WA each year. The equipment and staff required to test these babies for deafness is daunting (hearing loss is one of the most common problems for children).

Until recently, the testing has not been carried out routinely. Despite these difficulties, a pilot neonatal screening program has begun in Western Australia, under the direction of Dr Harvey Coates at Princess Margaret Hospital. The program is the first of its kind in Australia, and is supported by the Garnett-Passe Foundation.

The ongoing high cost of the equipment and staff to carry out the testing will probably continue to be a problem. In response to this local problem, and to address equipment availability worldwide (there are at least 10 million deaf children in China alone), staff and students in the Department of Physiology are working to develop more cost-effective test equipment using standard computer hardware and sophisticated software.

Leading the team, which also includes an electronic engineering honours student, and staff from the National Acoustics Laboratories in New South Wales, is Dr Rob Patuzzi (an electronics engineer and an electrophysiologist).

He has recently taken on the role of co-ordinator of the new Master of Audiology program within the Faculty of Medicine and Dentistry.

"Most of the commercially available test gear generates its sound stimuli with dedicated and therefore costly electronic hardware," he said.

"These days, with high-quality sound systems common in desktop or laptop computers, we can generate the sounds with the computers sound card at full CD quality."

Kosmic Sound and Lighting of Osborne Park, one of the sponsors of the new audiology program in Physiology, has generously donated the necessary software.

"It has allowed us to generate the complex sound stimuli for the baby testing and has proved invaluable in demonstrating speech production and analysis in laboratory classes for our audiology students. It also allows the audiology students to record and analyse speech patterns from hearing impaired children, providing them with an insight into how loss of hearing alters normal speech development.

"It will prove very useful in generating complex sounds for many other research projects within the audiology program.

"The research projects have also been supported by Widex, a major international hearing aid company. We hope to have the baby test gear completed by the end of the year, and the audiology research projects for our master's students will start in 2001."

Some aspects of this and related work will be discussed at a public talk during Deafness Week (August 22 to 28) at the Speech and Hearing Centre in Wembley on Saturday from 9 to 11am. Also speaking will be Helen Bailey, co-ordinator of the new neonatal hearing screening program in Perth, Dr Marcus Atlas, the new professor of ear, nose and throat surgery in the Faculty of Medicine and Dentistry, and Dr Rob Patuzzi, co-ordinator of the new audiology program at UWA.



Dr Rob Patuzzi (right), with PhD student Greg O'Beirne and biomedical engineering honours student Rena Tong, discussing the new low-cost equipment for testing babies' hearing.

Campus Diary

UWA News is published fortnightly. Information for the publication dated 21 August should be forwarded to Joanna Thompson, Publications Unit, ext 3029, fax 1162, email: uwanews@publishing.uwa.edu.au

**NO LATER THAN 5PM
ON 9 AUGUST**

Media enquiries to Public Affairs
on 9380 2889.

Unless a restricted audience or charge is specified, all the events/exhibitions listed here are free and open to all and may attract media interest.

Monday 7 August

BOTANY SEMINAR

"N and P nutrition of *Pinus pinaster*", Charlie Warren. 4pm, Room 2.14, Botany.

HISTORY SEMINAR

"Telling stories in Australian history." Jenny Gregory, 4.30pm, Postgraduate Lounge, Hackett Hall. All welcome.

Tuesday 8 August

LAWRENCE WILSON ART GALLERY

"*A Fortunate Life*: Robert Juniper and Stephanie Green". Celebrated WA artist Robert Juniper, whose illustrations of Albert Facey's novel are featured in the current exhibition *A Fortunate Life*, will talk about his response to Facey's story and the landscape of Western Australia. Stephanie Green, LWAG Education Officer, will follow with a discussion of Facey's work and the genre of life-writing. 1pm, LWAG.

SOIL SCIENCE AND PLANT NUTRITION/CENTRE FOR LAND REHABILITATION SEMINAR

"Why dryland and water salinisation are still major environmental problems", Elizabeth Kington. 4pm, Agriculture Lecture Theatre.

UWA DISTINGUISHED LECTURE SERIES IN SCIENCE, PHILOSOPHY AND RELIGION

"Creationism and sociobiology: towards a new morality?" Professor David Hull, Dressler Professor in the Humanities at Northwestern University, Illinois. Professor Hull will be introduced by Professor Deryck Schreuder. 8pm, Social Sciences Lecture Theatre.



Wednesday 9 August

PATHOLOGY SEMINAR

"Peptide tools to dissect signal transduction pathways", Dr Marie Bogoyevitch, Biochemistry. 1pm, Pathology Conference Room, G14, Ground Floor, M Block, QEIIIMC.

LAND, PLACE, CULTURE, IDENTITY SEMINAR

"What belongs, and what doesn't, in the Australian bush: the case of the Pilbara region of Western Australia", Dr Peter Kendrick, Regional Ecologist, Department of Conservation and Land Management, Karratha. 4pm, Lawrence Wilson Art Gallery

ANATOMY AND HUMAN BIOLOGY SEMINAR

"Medical acupuncture — a western scientific approach", Dr Jaspal Kaur. 4 to 5pm, CTEC Seminar Room, adjacent to Anatomy and Human Biology Building.

PHILOSOPHY SOCIETY MEETING

"Deconstructing Darwin", Professor David Hull, Northwestern University, Illinois. 4.15pm, Arts Seminar Room 1.33.

FRIENDS OF THE UWA LIBRARY MEETING

"Self-publishing: win or lose! The birth of *Dutch Point*", Barbara Yates Rothwell, author. Barbara will talk about her background, and current problems with getting published in today's publishing scene. Self-publishing is becoming more respectable while electronic developments point to a new future for authors. 7.30 for 8pm, Scholars' Centre, Reid Library.

Thursday 10 August

ASIAN STUDIES SEMINAR

"*Iranun* — the Vikings of Asia: globalisation, maritime raiders and the birth of ethnicity", Jim Warren, Murdoch University. 1pm, Room G.25, Social Sciences/Economics and Commerce Building.

CHEMISTRY SEMINAR

"New supramolecules incorporating macrocycles as structural elements", Len Lindoy. 1pm, White Lecture Theatre.

PHILOSOPHY SOCIETY MEETING

"The time of our lives", D. H. Mellor, University of Cambridge. 5pm, Arts G.14.

ZOOLOGY SEMINAR

"Large scale engineering and environmental interventions to save a large coastal lagoon." Dr Russell Hanley, BCEOM: The Segara Anakan Conservation and Development Project. 4pm, Jennifer Arnold Lecture Theatre.

Friday 11 August

MICROBIOLOGY SEMINAR

"Iron, siderophores and root nodule bacteria", Dr Kerry Carson, Division of Microbiology and Infectious Diseases, PathCentre. 9am, Seminar Room 1.1, First Floor, L Block, QEIIIMC.

ANTHROPOLOGY SEMINAR

"The job only requires the husband . . . lives, wives and identities in the ever-changing petroleum industry", Marianne Yrke. 12 to 1pm, Anthropology Conference Room, First Floor, Social Sciences Building.

BIOCHEMISTRY SEMINAR

"The power of the proteome", Dr Rob Lock, Curtin University. 1pm, Simmonds Lecture Theatre.

CENTRE FOR CLINICAL RESEARCH IN NEUROPSYCHIATRY

"Research in a clinical setting: opportunities and obstacles." Dr Peter Gibbon, Senior Research Officer, Psychological Medicine, Clinical Care Unit, PMH. 3.30pm, Seminar Room 3, Gascoyne House, Graylands Hospital

CIVIL AND RESOURCE ENGINEERING SEMINAR

"Reinforced concrete members in combined tension and bending", Ken Baker. 3.45pm, Room E151, Civil Engineering Building.

Sunday 13 August

KEYED UP!

Piano Recital 4. International pianistic sensation Robert Levin presents Bach, Brahms, Wyner and Franck in the final concert of the 2000 Keyed Up! season. 8pm, Octagon Theatre. Tickets are available at \$25.30 and \$19.80 (includes GST) and can be booked on 9386 4767.

Monday 14 August

HISTORY SEMINAR

"Art and/or anthropology: what pictures can tell us about the first decade of the penal colony at Sydney." Ian McLean, 4.30pm, Postgraduate Lounge, Hackett Hall.

Tuesday 15 August

LAWRENCE WILSON ART GALLERY

"Frances Andrijch: on Max Dupain". Well-known Perth photographer Frances Andrijch gives her lively and enthusiastic perspective on the photography of Max Dupain. 1pm, LWAG.

SOIL SCIENCE AND PLANT NUTRITION SEMINAR

"Water balance and growth relations of a pine stand in east Germany", Dr Christoph Hinz. 4pm, Agriculture Lecture Theatre.

2000 M. J. BATEMAN MEMORIAL LECTURE

"The future of financial centres in a technology-driven marketplace", Les Hosking, Australian Centre for Global Finance. 6pm, Octagon Theatre.

Wednesday 16 August

CHEMISTRY SEMINAR

"Motivated macrocycles: cage amines to calixarenes", Jack Harrowfield. 12 noon, White Lecture Theatre.

ANATOMY AND HUMAN BIOLOGY SEMINAR

"The quality of Surgical Care Project: the swings and slides of evidence-based medicine and implications for the treatment of aneurysmal disease", Dr James Semmens, Public Health. 4 to 5pm, CTEC Seminar Room, adjacent to Anatomy and Human Biology Building.

ENGLISH WORK-IN-PROGRESS SEMINAR

"Confronting desire and eroticism in literature and performance." Rachel Romano, 1pm, English Department, Ground Floor, Common Room (G14).

PHILOSOPHY SOCIETY MEETING

"My soul is not me: philosophies of mind reviewed and revived", John Haldane, University of St Andrews. 5pm, Arts Seminar Room 1.33.

Thursday 17 August**FREE LUNCHTIME CONCERT**

The WAIM Guitar Ensemble, directed by John Casey, presents Bensa's *Trois Mouvements Dynamiques*, Wüsthoff's *Concierto de Samba* and *Concierto Grosso Opus 3* by Antonio Vivaldi. 1.10pm, Octagon Theatre.

ZOOLOGY SEMINAR

"The effects of environmental flows on ecological processes in the Murrumbidgee River, NSW." Dr Robyn Watts, School of Science and Technology, Charles Sturt University. 4pm, Jennifer Arnold Lecture Theatre.

Friday 18 August**MICROBIOLOGY SEMINAR**

"Polymorphism of the human NK cell receptor family", Dr Campbell Witt, Department of Clinical Immunology and Biochemical Genetics, RPH. 9am, Seminar Room 1.1, First Floor, L Block, QEIIIMC.

ANTHROPOLOGY SEMINAR

"Principles and pragmatism: an indigenous new order", Ulli (Helen) Corbett. 12 to 1pm, Anthropology Conference Room, First Floor, Social Sciences Building.

BIOCHEMISTRY SEMINAR

"Liver development and carcinogenesis in the p53 Knockout Mouse", Melissa Dumble. 1pm, Simmonds Lecture Theatre.

ASIAN STUDIES SEMINAR

Honours seminar: "Prospects for a peaceful settlement in the South China Sea", Charlotte Woodhill. 1pm, Room G.25, Social Sciences/Economics and Commerce Building.

CIVIL AND RESOURCE ENGINEERING SEMINAR

"Rockburst damage mechanisms", John Albrecht. 3.45pm, Room E151, Civil Engineering Building.

CENTRE FOR CLINICAL RESEARCH IN NEUROPSYCHIATRY

"The implications of a 'family violence', rather than 'domestic violence' paradigm for intervention, prevention and treatment in indigenous communities." Dr Harry Blagg, Research Fellow, Crime Research Centre. 3.30pm, Seminar Room 3, Gascoyne House, Graylands Hospital

ADVANCE NOTICE**Monday 21 August****HISTORY SEMINAR**

"History, native title and the law: processes and challenges in the practice of history." Christine Choo, 4.30pm, Postgraduate Lounge, Hackett Hall. All welcome.

ASTHMA AND ALLERGY RESEARCH INSTITUTE SEMINAR

"Inflammation in Atherosclerosis", A/Prof Joe Hung. 12.30 to 1.30pm, Joske Seminar Room, Medicine, G Block, SCGH.

Tuesday 22 August**LAWRENCE WILSON ART GALLERY**

"Mario D'Alonzo on John Brack". Artist Mario D'Alonzo will reflect on the art of John Brack from the point of view of a practising artist. 1pm, LWAG.

SOIL SCIENCE AND PLANT**NUTRITION SEMINAR**

"Denaturing gradient gel electrophoresis as a method to assess microbial community structure in the rhizosphere", Dr Petra Marschner, Institute für Angewandte Botanik, Hamburg. 4pm, Agriculture Lecture Theatre.

PERTH MEDIEVAL AND RENAISSANCE GROUP TALK

"Celtic law: bloodshed and compensation in ancient Ireland", Professor Neil McLeod (Murdoch University). 7.30pm, Postgraduate Common Room, Hackett Hall.

Tuesday 29 August**PERTH MEDIEVAL AND RENAISSANCE GROUP TALK**

"The Globe and globalism: Shakespeare's maps", Associate Professor Chris Wortham, English. 1pm, ALR 9, Arts Building.

**Monday 7 to Friday 11 August****Monday**

Defying Gravity with *Tetrafile Percussion* perform works by Sculthorpe, Piazzola, Stockhausen, Christopher Rouse, Stuart James, Eleanor Sandresky and Michael Blake. 7.30pm, Callaway Music Auditorium. Tickets at the door: \$11 and \$5.50 (price includes GST).

Tuesday

Free lunchtime concert — *Defying Gravity*, directed by Tim White, presents an innovative and energetic program, including much neglected xylophone ragtime! 1.10pm, Music Auditorium, WAAPA.

A concert featuring solo and chamber music by Andrew Ford. Mark-Anthony Turnage and others. Performers include Anna Sleptsova (piano) and Matthew Styles (saxophone). 7.30pm, Callaway Music Auditorium. Tickets at the door: \$11 and \$5.50 (price includes GST).

Wednesday

Magnetic Pig presents a program of new electro-acoustic music by Cathie Travers, Lindsay Vickery, Iain Grandage and other WA composers. 7.30pm, Callaway Music Auditorium. Tickets at the door: \$11 and \$5.50 (price includes GST).

Thursday

Free lunchtime concert — a showcase of compositions by WAIM students. 1.10pm, Octagon Theatre.

Patricia Pollett, Allan Meyer and Roger Smalley perform chamber works by Andrew Ford, Nigel Sabin, Kurtag and Smalley. 7.30pm, Callaway Music Auditorium. Tickets at the door: \$11 and \$5.50 (price includes GST).

Friday

The WA Symphony Orchestra New Music Ensemble and soloist Patricia Pollett, conducted by Roger Smalley, perform three works by Andrew Ford plus the first performances of specially commissioned works by Brad Gill and Hannah Clemen. 7.30pm, Callaway Music Auditorium. Tickets at the door: \$11 and \$5.50 (price includes GST).

**LIONS EYE INSTITUTE CONCERT SERIES 2000**

**A soprano performance by
Sara Macliver
with Mark Coughlan on piano**

Thursday August 17 should be a night to remember. One of WA's best-loved singers, Sara Macliver, returns to the Lions Eye Institute for a fabulous night of music accompanied by UWA's talented Mark Coughlan.

Sara Macliver has developed a high national profile for her concert performances with Australia's leading orchestras. She performs regularly around the country and we are delighted that Sara is returning to perform for us as she recently moved to Sydney to live.

Mark Coughlan is a national figure in Australian music. He is a pianist and sought-after teacher. He is also State Chairman of the Australian Music Examinations Board and Head of the School of Music at the University of Western Australia.

The concert will be at the **Lions Eye Institute, 2 Verdun Street, Nedlands**. Cocktails and hors d'oeuvres start at **7pm** with the concert commencing at 7.30pm sharp. Tickets are \$30.

All funds generated from the concert series will go towards supporting research into the investigation, prevention and cure of blinding eye diseases.

For further information or bookings contact Amelia Miller on 9381 0714.

EVENTS FOR PROSPECTIVE STUDENTS

- **Wednesday 2 August 2pm to 7pm**
Faculty of Engineering and Mathematical Sciences
OPEN DAY 2000
- Displays in the Science/Engineering departments
- **Tuesday 8 August 5.30pm**
Science, Cognitive Science, Neuroscience, Plant Biology
- Winthrop Hall
Repeated Saturday 12 August
- **Tuesday 8 August 6.30pm**
Secondary Teaching and School Psychology
- Winthrop Hall
- **Tuesday 8 August 7.30pm**
Arts, Asian Studies, European Studies, Modern Languages
- Winthrop Hall
Repeated Saturday 12 August
- **Wednesday 9 August 5.30pm**
Architecture, Landscape Architecture, Fine Arts
- Winthrop Hall
- **Wednesday 9 August 6.30pm**
Music and an introduction to WAIM
- Winthrop Hall
- **Wednesday 9 August 7.30pm**
Economics and Commerce
- Winthrop Hall
Repeated Saturday 12 August
- **Thursday 10 August 5.30pm**
Computer and Mathematical Sciences
- Winthrop Hall
- **Thursday 10 August 6.30pm**
Biomedical Science, Health Science, Molecular Biology, Vision Science
- Winthrop Hall
- **Thursday 10 August 7.30pm**
Engineering
- Winthrop Hall
- **Friday 11 August 5.30pm**
Psychology
- Winthrop Hall
- **Friday 11 August 6.30pm**
Social Work
- Winthrop Hall
- **Friday 11 August 7.30pm**
Law
- Winthrop Hall
- **Saturday 12 August 1pm**
Agriculture, Animal Science, Environmental Science, Horticulture and Viticulture, Landscape Management, Marine Science, Natural Resource Management
- Winthrop Hall
- **Saturday 12 August 2pm**
Arts, Asian Studies, European Studies, Modern Languages
- Winthrop Hall
- **Saturday 12 August 3pm**
Science, Cognitive Science, Neuroscience, Plant Biology
- Winthrop Hall
- **Saturday 12 August 4pm**
Economics and Commerce
- Winthrop Hall
- **Wednesday 16 August 5pm**
Physical and Health Education, Sports Science
- Lecture Theatre Human Movement Building. Enter from Parkway, Nedlands
Repeated at 7.00pm
- **Wednesday 30 August 7.30pm**
Information evening for prospective mature-age students
- Alexander Lecture Theatre, Arts Faculty Building
- **Monday 4 September**
Information evening for prospective students wanting to study at the UWA Albany Centre
- Albany Town Hall

Unless otherwise specified these events are aimed at prospective students planning to begin tertiary studies in 2001. Other students are welcome to attend, as are parents and teachers.

For further information contact the Prospective Students Office (9380 2477 or 1800 65 3050)

GUILD NEWS

y o u r o n - c a m p u s n e w s a g e n c y

- The West Australian - 60¢
- The Australian - 50¢
- Financial Review - \$2
- Postage
- Dry Cleaning - 10% discount for UWA Staff
- Huge range of magazines - we'll order your favourites just for you!
- Official UWA Gear & Gifts
- Mobile Phones and charge cards
- Cards
- Degree Framing
- Cassettes, Disks and heaps of other stuff



located to the right of the
North entrance
to the
Guild Village Courtyard



Call Laura on extension 2283 or email your requests to laura@gu.uwa.edu.au



The body of postgraduate science student Lenny is found in the reeds on the banks of the Peel Inlet when an early morning jogger is attracted by the ringing of the victim's mobile phone. Police trace the call to Lenny's girlfriend Lola. A bottle is found near the body . . .

Who killed Lenny? was the burning question posed to 48 Year 10 students cum amateur sleuths from schools around Perth and Mandurah.

The students — all female — were taking part in an innovative holiday program organised by Women in Science and Engineering (WISE) in co-operation with the Departments of Zoology, Chemistry, Physics and Geology and Geophysics.

The object of the exercise, according to Tricia Gardiner, administrative assistant with WISE, was to enthuse the students into taking science in Years 11 and 12, and hopefully going on to study it at university. "This is the first time we have held such an event and we've had an amazing response."

The amateur sleuths spent all day on campus, analysing evidence from the crime scene and sifting information provided by the 'CIB' following interviews with five suspects: Gordon Bleu, Dr Kurl, Pauline Huntsman, Lucy Lovelost and Joe Boulder.

In Zoology, they took a close-up look at the life cycle of maggots; in the Chemistry lab, they identified the poison in the drink bottle – lead acetate. Using lasers in the Physics lab, they measured the width of Lenny's hair as well as other stray strands of hair found on his

clothing. (As lecturer Simon Woodings told them, "Hair can be very important in forensic investigations.")

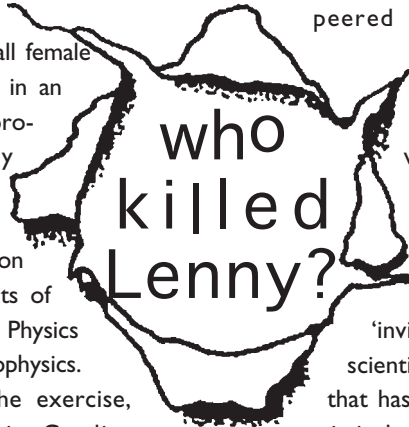
In Geology and Geophysics, they peered into microscopes to analyse pollen samples found on the corpse, which they compared with samples from the shoes of the suspects. Pollen is everywhere, they learned, which makes it a powerful 'invisible' tool for forensic scientists, producing evidence that has frequently persuaded a criminal to confess.

By early afternoon, PLC student Sophia Chapman had singled out Dr Kurl as a prime suspect. She was enjoying her foray into detective work, and is interested in pursuing science at university: "This is good because it gives you ideas for career options." Fellow student Alison Cook agreed: "It is great to be able to do real things," she said as she worked with the laser. "At school we wouldn't be able to do this."

When they all came together at the end of the afternoon, they had little trouble in identifying the culprit . . . who will not be identified here in case WISE runs the program again!

The students left the campus with great enthusiasm for studying science.

(Women in Science and Engineering was set up in 1989 as part of Student Services.)



UNEARTHING EARLY TASMANIAN HISTORY

A **aboriginal people and archaeologists are some-times at loggerheads on the subject of Tasmania's early history, but a new UWA research project has the full backing of an Aboriginal community in northeast Tasmania.**

Members of the community are helping to gather material that will shed light on the lives of their hunter-gatherer ancestors. Little is known archaeologically about the Aborigines of the northeast, and the aim of the UWA project is to construct an archaeological sequence of their occupation.

In the past there has sometimes been a lack of consultation with Aboriginal communities, said Professor Sandra Bowdler. "The important thing about this project is that it is being developed in close co-operation with the Aboriginal community and will employ Aboriginal site officers. It may also involve the Riawunna Aboriginal Teaching and Learning Centre at the University of Tasmania."

With funding from the Australian Research Council, the project will seek to establish whether the local people made use of waterways, whether they sailed to offshore islands to hunt and catch muttonbirds and how they adapted to their coastal environment.

Historical records reveal that there were several tribal groups in Tasmania: the UWA project will try to find out whether there were cultural differences between the groups.

Suzannah Macbeth (St Hilda's), Nina Yiannopoulos (Hollywood SHS), with Tricia Gardiner, administrative assistant, Women in Science and Engineering (WISE).



Feeling stressed?

Just when you thought it was safe to open your mail again . . .

Another survey has been sent to all UWA staff members. Please don't ignore it. It has nothing to do with the Working Life Survey, which is an internal University project.

The latest questionnaire, National Survey of Occupational Stress, is being distributed to 17 Australian universities. UWA is one of those participating in a longitudinal three-year study of occupational stress among Australian university staff.

The study is funded by two ARC/SPIRT grants with the National Tertiary Education Union as the industry partner. The chief investigators for the project are at the University of South Australia, the University of New England and Swinburne University of Technology.

It is very important to identify types and sources of stress affecting university staff to enable strategies and practices to be put in place to alleviate that stress. The survey will be repeated in two years to measure changes in the levels and sources of stress and highlight developments in improving strategies for alleviating stress in university staff.

The survey is sent with the full support of the University and the NTEU and staff are encouraged to spend half an hour completing it. Your responses are anonymous.

Please complete both this National Survey of Occupational Stress and the Working Life Survey as soon as possible.



Chancellor Clinical Professor Alex Cohen and Vice-Chancellor Professor Deryck Schreuder congratulate Mr Barrett-Lennard on his retirement from Senate.

The end of the (much-travelled) road for senator

Irwin Barrett-Lennard could probably drive the road between Perth and Wongan Hills with his eyes closed.

He's been doing the round trip twice a week for the past 28 years.

Late last month, the UWA senator attended his last Senate meeting . . . and drove back to his Wongan Hills farm the next day.

"I'm still an active farmer, even though I've handed over one property to my family," Mr Barrett-Lennard said. "I've always been lucky to have a wonderfully loyal farm staff (and later, family) who've kept things going while I've been involved in the community."

As well as serving 28 years on the Senate, Mr Barrett-Lennard was a local

councillor at Wongan Hills for 22 years and continues to play an active role in local government.

"But length of service is not a great thing in itself: it's what you do while you're there that matters," he said.

While on the Senate, Mr Barrett-Lennard served on the general purposes committee, followed by staffing, then finance and investment but he is modest about his role and achievements.

He brought the rural perspective to many Senate discussions. "Breadth of view is always an asset to any argument but it's terribly important that people are not partisan because of their backgrounds," he said.

"The really interesting thing about public and community service is the people you get to know well and how they react to different situations and how you can help them deal with problems and opportunities.

"It's been richly rewarding," he said.

UWA wins Energy Efficiency Award

Radical changes to UWA's air-conditioning system and other mechanical services have done more than save the University over a million dollars and cut carbon dioxide emissions by more than 13,000 tonnes.

They have also netted for UWA a win in the WA Energy Efficiency Awards announced in June.

In a project that took nine years to complete, most of the power savings were achieved by converting from pneumatic control to Direct Digital Control (DDC).

Central plant technicians under John King, Senior Technical Officer (Mechanical) are now able to fine-tune air-conditioning and other mechanical devices from computer terminals, achieving optimum conditions that were not possible with pneumatic controls. The changes have been an ongoing challenge for Mr King since he joined the University in 1991.

Congratulations to all the Office of Facilities Management staff who have been involved in the project over the past nine years.





Have your say about small grants

As many researchers will be aware, the **ARC Small Grants Scheme** has been discontinued in the recent reorganisation of research funding to Universities.

The money that supported the scheme is still delivered to the University but will be rolled into the Research Quantum from 2001. A working party has been established under the auspices of the Research Committee to examine the role of the Small Grants Scheme and to suggest a scheme to replace it at UWA. The members of this committee are: Professor David Badcock (Convenor); Professor Mark Bush; Associate Professor Arun Dharmarajan; Professor Michael McAleer;

Associate Professor Philippa Maddern; Dr Terry Quickenden; with Trudi McGlade as Executive Officer.

The Working Party had two main tasks. The first was to put in place a scheme to avoid a hiatus in the funding of "small-grant-type" research at UWA in 2001. It was decided that a scheme mirroring the ARC Small Grants Scheme would operate at UWA in the 2001 funding round. This scheme is now under way and can be considered as an interim measure.

The second task is the bigger one — to frame a replacement scheme for the ARC Small Grants Scheme to operate in the 2002 funding round and beyond.

This working party has been busy over the past few months and has put

The working party has suggested a replacement grants scheme.

Back: Trudi McGlade, Associate Professor Arun Dharmarajan, Professor David Badcock, Professor Michael McAleer. Front: Associate Professor Philippa Maddern, Professor Mark Bush, Dr Terry Quickenden.

together a document titled *Developing a Research Grant Scheme at UWA*. This document describes a scheme that places particular emphasis on the development of the research potential of early career researchers and reflects the increased need for established researchers to attract external funding in order to build a strong research-based university. It can be found on the web at: <http://www.acs.uwa.edu.au/research/policy/gp/sdis.html>

The working party hopes that researchers in the wider University community will read this document and provide comment on it so that we can all work together to frame an internal research grants scheme to fund research at UWA over the next few years.

Your opinion is valued and this is your chance to provide an input to the deliberations of the Working Party. Please email comments to Trudi McGlade at tmcglade@admin.uwa.edu.au.

...
**the
last
word**

Continued from page 16

DW (pictured right) graphically described how his stomach turned somersaults as the aircraft

shuddered and shook as it picked up speed. He was convinced all aboard were shortly to meet their maker.

Then he heard the call "Bombs away!" and hung on for dear life as the pilot levelled the plane out. They circled around for a while as the aircrew checked out the bomb-impact site. Much to DW's relief the angleometer was deemed a success.

With the end of the war the binocular project was wound up, but this didn't mean that DW could put his feet up. The teaching laboratories needed major upgrading and expanding to cope with the sudden rise in student numbers, many of whom were returned service personnel.

In the late 1950's, on the verge of retirement, DW became heavily involved in the design of the new Physics building, which we finally moved into in 1962.



Having served the University and his country magnificently for some 48 years, with little fanfare or fuss, DW finally retired in 1963.

Mere words seem inadequate to convey the praise that is surely his due, not only for his achievements, but for establishing the high standard of dedication and service for future generations of technicians to aspire to.

Oops! I nearly forget the "Cure-em Quicks." As you might imagine, what with the long stressful hours working on the binocular project, whilst at the same time managing the department and maintaining the teaching laboratories, DW's health suffered to some degree.

He frequently got the sniffles, but seemed always able to keep on keeping on by sucking on copious quantities of those little chunks of Irish seaweed extract called "Cure-em-Quicks".

In view of the importance of DW's wartime work alone it seems appropriate to acknowledge this humble medication its rightful place in history.

I would like to thank Miriam Congdon and Colin Halbert of the University Archives Office for their assistance in the preparation of this article.

CLASSIFIEDS

FOR SALE

DAIHATSU APPLAUSE XI, 1991, white, auto, a/c, power steering, fuel injection, 4-wheel disc brakes, immobiliser, low kms, one owner, regular service, 6 months reg., immaculate condition. \$8000 ono. Telephone 9447 0632.

CAMRY 1998, white, 43,000km, auto, PS, CL. Under new car warranty until mid-2001. Excellent condition. \$19,500 ono. Call Sharon on ext. 2562 or 9305 3736.

MITSUBISHI SCORPION 1982, good student car with a/c. \$1500 ono. Contact Paula on 9380 2597.

CAMRY SILVER (1989), reliable and in excellent condition. \$4500. Contact John on 9335 4734.

HOLIDAY CHALET, KALBARRI. 2 bedrooms, fully furnished, holiday chalet in strata complex of 22. Currently owned by UWA, \$69,500. Contact Mike at WACRRM on 9384 2811.

WANTED

SKIING OUTFIT second-hand for a 9 year-old boy who is definite on "no pinks please". If you can help please contact Filomina on 9380 2505.

RENTAL/HOUSESITTING ACCOMMODATION WANTED

FAMILY WITH GRADE SIX BOY returning to Nedlands from overseas. In need of furnished home near UWA beginning September/October. Have recently lived in Nedlands for three years. Have excellent local referees and housesitting experience. Non-smoking professionals. Happy to garden and/or look after pets. Contact: Becky Emerson at beckinoz@aol.com.

ACCOMMODATION FOR RENT

BEAUTIFUL CHARACTER HOUSE FOR RENT in Mount Lawley, October 2000 to January 2001. Large 4 bedroom, 2 bathroom. Fully furnished, including two cats, walking distance to Perth. Reasonable rent to good tenant. Cars included if required. Would suit visiting academic and family. Phone Kerri on 9272 9150.

NEW LUXURY COTTAGE FOR RENT in Blackwood Valley, near Balingup, offering views, tranquility, seclusion and a cosy wood stove. Call Jackie on 9336 3250 (A/H) or 040 738 2527.

**Research Grants and Contracts
will be published in the next
issue of UWA News.**

UWA Employee Assistance Program

There are times when all of us have challenging issues to deal with. When personal or work related issues make life difficult, the University has an Employee Assistance Program (EAP) to help staff manage these issues more effectively.

The EAP is a professional, confidential counselling and consultation service. The services of Davidson Trahaire are available FREE to you and your family for up to six sessions a year.

For appointments, please ring Davidson Trahaire on 9382 8100 or if urgent 9480 4847(24 hours). Their offices are located at Suite 11, 100 Hay St, Subiaco. Further information can be obtained at www.admin.uwa.edu.au/sho



UNIVERSITY PHYSIOTHERAPY AND SPORTS PODIATRY

PHYSIOTHERAPISTS
*Sally Bigwood,
Gerard Hurst*

PODIATRIST

Tracey Manifis

UWA Recreation Centre
9380 2316

STUDENT RATES
*Sports Card Holders
20% discount*

Redundant Equipment for Sale

| ITEM | PRICE | AGE | COND. | CONTACT | DEPARTMENT | EXT |
|---|--------|-----|-------|---------|-----------------|-----------|
| 2 x NEC Pinwriter P93000 Printer | Offers | — | — | Mark | ECEL | 1405 |
| MAC Imagewriter II Printer | Offers | — | — | Mark | ECEL | 1405 |
| 3 x Apple Mac LC630..... | Offers | — | — | Mark | ECEL | 1405 |
| Brook Compton Parkinson Vacuum Pump | \$300 | 14 | 2 | Rosalie | Surgery | 9224 0223 |
| Packard 5000 Series Gamma Counter | Offers | 14 | 3 | Rosalie | Surgery | 9224 0223 |
| Astecair Protoble Laboratory Workstation | Offers | 14 | 2 | Rosalie | Surgery | 9224 0223 |
| Tissue Tek, Tissue Embedding Centre | Offers | 14 | 2 | Rosalie | Surgery | 9224 0223 |
| Apple LaserWriter Pro (not working)..... | \$50 | — | 3 | Tanya | Research Grants | 2003 |
| Umax Scanner, A4 size, SCSI interface | \$200 | — | 2-3 | Frank | Physics | 2730 |
| Apple Mac LC630..... | Offers | — | 2 | Renée | LWAG | 3708 |
| Canon Photocopier NP125 | Offers | — | 2 | Renée | LWAG | 3708 |
| Panasonic Fax UP-305-AL | Offers | — | 2 | Renée | LWAG | 3708 |

Bids should be accepted by Monday 21 August with departments to have first option

Departments 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 3618/2547 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.

Support wanted!**HELP SAVE THE BEARS OF CHINA**

Today in China 10,000 bears are kept prisoner for extracting bile from their gall bladders. The bears are kept in a horizontal position, in cages that look rather like coffins. They wear a metal collar and are held down by pressure bars. A catheter is introduced into their body that continuously absorbs the liquid from their gall bladders.

Every moment that passes is decisive for them, it's either SUFFERING or LIVING. With their paw they take some food through a little opening in the cage. To quench their thirst they have to stretch their tongue to lick the bars of their prison. They suffer excruciating pain as they have to stay for an average of 15 years in the same position that deforms their bones. We are talking about 15 years or 180 months, or 5,475 days, or 131,400 hours or 78,844,000 minutes of continuous pain. The bile serves a disgusting market: it is used to produce shampoos, aphrodisiacs and 'miraculous' remedies.

If you wish to support the "Save Tortured Bears in China" Foundation, you can send donations to Maureen Gordon, 21, Balaka Way, Queens Park 6107. A street appeal and raffle is held annually and Maureen would welcome volunteers to help out at the street appeal or any items which could be given away as prizes at the raffle. You can also become a member of the Foundation (\$10 unwaged/\$15 waged) by calling Maureen on 9458 7214.

Volunteers wanted!**HIGH BLOOD PRESSURE AND IMPOTENCE**

The University Department of Medicine at Royal Perth Hospital is seeking men with high blood pressure taking two or more medications for high blood pressure treatment, who also suffer from impotence. Volunteers are needed to take part in a worldwide study into the safety and effectiveness of the drug Viagra® (sildenafil citrate).

For a short time only, places in this study are available to a strictly limited number of WA men who fit these criteria. They must be over 18 years old, not taking nitrates in any form, including use as treatment for angina and amyl nitrite ("poppers"), and otherwise in good health.

Volunteers must be available over 14 consecutive weeks, and be prepared to take the study medication at least once a week. They must be prepared to take a placebo (non active) tablet for six of the 14 weeks and to keep a detailed diary of the effect of the study medication and their response to it. They must also be able to attend the University Department of Medicine Research Studies Unit at Royal Perth Hospital at regular intervals during the study for routine health checks, and to complete a series of questionnaires relating to symptoms and sexual function. The study medication and all medical investigations will be provided free of charge for the duration of this study.

Men who consider they fulfil the study criteria and would like further details should ring the University Department of Medicine and speak to either Pat Stroud on 9224 0236 or Karen Shakespeare on 9224 0317.

This study has the approval of the Royal Perth Hospital Ethics Committee.

Australian Postgraduate Scholarships to the London School of Economics 2000–2001

The Australian Friends of the London School of Economics (LSE) wish to offer two scholarships, each valued at \$4000 to assist Australian students who are undertaking postgraduate studies at the LSE. To be eligible, students must be Australian citizens and either be starting a course this year or be currently enrolled as postgraduate students at the LSE.

Applicants are invited to send a statement giving details of the course they are undertaking, a curriculum vitae and evidence that they meet the above criteria.

Applicants close on 1 September 2000 and should be sent to:

**Professor Russell Lansbury, Associate Dean (Research)
Faculty of Economics and Business, University of Sydney, NSW 2006 Australia
Fax: 02 9351 4729 (in Australia); 612 9351 4729 (from overseas)
Email: r.lansbury@econ.usyd.edu.au**

MATILDA AWARD FOR CULTURAL EXCELLENCE

Convocation, the UWA Graduates Association, in conjunction with the UWA Student Guild, makes an annual presentation of this cultural award, recognising excellence and outstanding achievement in cultural pursuits such as:

Music — Classical, rock, popular, jazz and any other form of music;

Literature — Fiction, non-fiction, short stories, prose, poetry, and any other form of literature;

Public Speaking — Debating, specialised expertise in a foreign language, and any other form of public speaking;

Dance — Ballet, contemporary, ballroom and all facets such as choreography, production and performance;

Visual Arts — Painting, graphic design, textiles, sculpture and any other form of visual art;

Drama — Theatre, television, street theatre, production and any other form of drama.

- The Matilda Award can be presented for excellence in any form of cultural pursuit.
- Individuals or groups can be nominated for the award.
- Nomination may be made on the basis of work as part of a University course or on the basis of participation in the arts in the wider community.
- The significance of the nominee's contribution either in terms of personal achievement or of contribution to a group achievement, at international, national, state or at community or University levels will be considered.
- The award consists of a framed certificate and \$1000.

Applications are now open and must be submitted by **Friday 22 September 2000**.

For further information and application forms contact:

**The Graduates Co-ordinator
Convocation,
The UWA Graduates Association
Telephone: 9380 3006
Email: uwaga@cyllene.uwa.edu.au**



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John Budge *Technical Officer, Department of Physics*

Military intelligence, the technician, the insurance salesman, the greengrocer — and cure-em-quicks

...the last word



Few people around today know that the Department of Physics was involved in important work during World War II for the Australian military in refurbishing and preparing for use, mainly in the Pacific war theatre, the thousands of binoculars donated by the Australian public to help the war effort.

The story goes back to the appointment of a remarkable character, Don W. Everson, later known simply as “DW” as the department’s first technician in 1915 when the University was located in Irwin Street, Perth.

An extensive knowledge in all things electrical, together with his all-round manual and innovative skills made this exceptional do-it-yourself Yorkshireman the ideal person for what was to follow.

Although something of a quantum leap from making up relatively simple experimental apparatus for the laboratories, DW took it all in his stride. He gradually built up the workshop facilities from its home-handyman status to match the growing sophistication of the department. By the start of World War II DW had acquired a superb American cabinet-makers’ circular saw, high-quality drilling machine, and a state-of-the-art precision nine-inch swing Holbrook lathe, still in use today, which was to prove invaluable in the optical munitions work.

Just how the military came to involve the University in the binocular work is a little unclear. Perhaps it was the definitive example of military intelligence!

Many of the binoculars were in a poor state of repair, with parts missing, chipped and mis-aligned lenses, and damaged focusing mechanisms, etc. With the aid of the Scientific American publication *How to make a Telescope*, DW set about learning the art of lens-grinding and many tricks of the trade peculiar to optical mechanics.

The first task was to make the apparatus for testing the optical properties of the lenses, and a collimator for setting their alignment to ensure that both lens systems focused at the same point.

Once the main technical problems were solved it wasn’t long before extra staff were needed to cope with the increasing workload. DW was fortunate to obtain the services of ex-insurance executive Victor Leggatt, an outstanding member of Perth’s model engineers’ fraternity, and ex-greengrocer Ralph Eades, seconded from F & R Tough in Perth, who were engaged in making mortar bomb and hand-grenade casings and other military hardware.

These two gentlemen performed most of the precision machining for the reconstruction of the binocular, for which the Holbrook lathe proved indispensable, especially the feature that allowed threadcutting to be carried out right up to a shoulder with the aid of a unique adjustable drop-out mechanism.

Notwithstanding DW’s hectic schedule other diversions sometimes cropped up requiring his attention.

Soon after the arrival of the Catalina flying boat squadron at Matilda Bay, Professor Ross was enlisted to act as a technical adviser, which meant that problems of a practical nature were passed on to DW.

One such problem arose from the use of the Catalinas as dive-bombers (believe it or not!) to attack the Japanese freighters that were supplying their troops in the islands to the north of Australia. DW was asked to knock up some sort of instrument that would allow the pilot to set the aircraft at the optimum dive-angle for this hazardous operation. He made up a simple ‘angleometer’ that was attached to the bulkhead near the cockpit, and was talked into going on a test flight to trial the device.

So off they flew down to the Peel estate where the unlikely dive-bomber gyrated like an eagle in a thermal, ever upward to about 15,000 feet, then with little warning, the pilot threw the gangling old machine into a steep dive.

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