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“A man (or woman) of the world...” – an evocative phrase from another age.

We now talk about ‘global citizens’ and we tend to mean something new, something which reflects the new era of globalisation.

An earlier era had in mind not only an individual for whom life had no surprises but a travelled person, knowledgeable about other cultures and, at least, bilingual in being able to converse in a foreign language.

An even earlier century had seen the European upper classes deliberately embarking on the ‘Grand Tour’ of the ‘Continent’ to experience ‘foreigners’, perhaps even to bring back classical artefacts to establish cosmopolitanism.

But ‘global citizen’ is an especially 21st century idiom. Beyond ‘tourist’ (our mass version of the Grand Tour), beyond experiencing ‘The Other’ – as cross-cultural encounters are now defined – there is a new dimension to the concept.

A significant feature of globalisation is an international labour market in skilled professionals. There is a growing minority of highly trained and highly desired professionals – predominantly graduates – who are attracted by the opportunity of careers beyond our country. Some may take up such opportunities and never return. Others do return, being able to capitalise on overseas work-experience which substantially advantages them back in Australia.

As university teachers and educationalists we need to take careful notice of this significant trend as we devise appropriate programs of study for our undergraduates and post-graduates. The UWA degree must be able to serve our graduates wherever they decide to follow their careers.

It is indeed a matter of importance that in other modern societies – not least in Europe and North America – that capacity to live and work as a global citizen is being factored into the University experience.

This takes many forms. The cultural competency of knowing other cultures and languages. An experience of study in another society. Exposure to work practices in other nations.

Increasingly universities are ensuring that their graduate profile does equip their own graduates to not only cope with, but also take advantage of, the changing world of an internationalised labour environment.

At UWA our Internationalisation Plan stresses the importance of ‘cultural competencies’ in our graduates. And it proposes the apparently modest 10 per cent of undergraduates incorporating a period of agreed ‘study-abroad’ as integral to our degree.

Both remain somewhat pious hopes! While we are advancing our international benchmarking – for establishing comparative excellence in the Quality Audit due next year – we need to do more with an international student experience (we have yet to achieve half of our 10% goal).

Interestingly a great many overseas universities want to establish equal and cost neutral student exchange programs with UWA. It is an embarrassment that we are simply unable to balance their interest and numbers with our students ready to study overseas in a major respected partner university.

We should especially notice the rationale of those European and North American universities in looking for quality student-exchange partners. Yes, they see a general cultural benefit in an Australian experience. But they also strongly believe that major employers will give preference to graduates who have an international credential in their degree.

In terms of staff and research programs, UWA is a highly internationalised University within the Australian system. The challenge is therefore to extend that to the student experience.

UWA graduates should readily claim citizenship of the world.
New technology for biological implants is now available in Perth for people with knee problems caused by cartilage defects.

It cuts the time, cost and pain of traditional knee surgery.

Autologous Chondrocyte Implantation (ACI), taking cartilage from a patient’s knee, growing it in a laboratory, then implanting it in the knee, could only be achieved previously by sending cartilage to Copenhagen for cell culture.

UWA orthopaedic surgeons Professor David Wood and Associate Professor Ming-Hao Zheng are collaborating with a German biotech company Verigen International. They have set up a $4 million facility at Hollywood Private Hospital for ACI, the only facility in the southern hemisphere.

About 40 orthopaedic surgeons and scientists from all over Australia recently attended a workshop on ACI at ctec, the Medical and Surgical Skills Centre at UWA. After a morning of lectures on the ACI techniques developed by Professor Zheng, the surgeons had hands-on practice in the ctec laboratories, using human cadavers and pig knee joints (which have similar tissues).

Associate Professor Zheng said the new procedure, which is performed on patients with cartilage defects of the knee or ankle, may prevent arthritis and could reduce the need for knee replacements in the future.

“Knee replacements are effective, but they do eventually wear out and need revising. This

— the new procedure — may prevent arthritis and could reduce the need for knee replacements in the future”
New facility brings surgeons to their knees

can create problems in younger patients,” he said.

The operation is performed in two stages. After a patient has been assessed as a suitable candidate for the procedure, approximately 150mg of cartilage, equivalent to the size of a Tic Tac, is removed from the non-weight bearing area of the knee.

“This procedure has changed the concept of implantation — it represents a milestone in medicine.”

This is done as a day case. The biopsy sample that has until recently been sent to Copenhagen, Denmark, is now sent to the new Verigen facility at Hollywood Private Hospital. The cell culturing process takes approximately four weeks.

In the second stage of the procedure, with access gained through a small incision, the cells are glued back into the knee joint. This operation lasts about 40 minutes. Patients generally leave hospital two days after the operation with the aid of crutches.

“Once within the knee, the cells bind to the bone surface and start to fill the defect in the cartilage. This maturation of the cartilage will take up to three months and will not reach full hardness until between eight and 12 months post operatively,” said Associate Professor Zheng.

“This procedure has changed the concept of implantation. We used to use steel and plastic. Now we are using the patient’s own tissue. It represents a milestone in medicine.”

Most patients will return to work about three months after the operation and participate in contact sports again at 12 months. The operation has been pioneered in Europe and now performed on more than 2,000 patients worldwide. Patients between the age of 15 and 55 are generally suitable for the transplant.

Knee cartilage defects are most commonly caused by work or sports-related trauma injuries.

Autologous Chondrocyte Transplantation can offer reduced surgical interventions and hospital stays. Benefits include reduced pain levels and long term improvement in knee function and mobility.

The procedure can also be used on shoulders and ankles, anywhere there is cartilage damage.

Fremantle Dockers footballer Clem Michael had the procedure 18 months ago, but the football club had to send his tissue to Copenhagen for culturing. It was a successful alternative to the more painful knee reconstruction and reduces the risk of arthritis in the joint.

Paul Anderson, from Verigen International, said that 60 per cent of footballers in Australia retired with cartilage damage, predominantly in the knees, shoulders and ankles, which often led to arthritis later in life.

“This technology can be used by footballers and other sports players and it has the potential to change their careers,” said Mr Anderson.

The days of knee replacement surgery may be over.

Academics, students, even a member of the University’s executive, recently had a taste of what it’s like to live behind the wire fence.

Students in the Refugee Rights Action Network (RRAN) set up a mock detention centre in the Guild Village and asked staff and students to volunteer to be locked up.

Everybody else on campus was encouraged to donate money to help the RRAN in its campaign to lobby the government to do away with mandatory detention for refugees.

Karinna Nolan, one of the group, said there was a need to highlight what they considered to be inhumane policies, treatment of and myths surrounding refugees.

“We plan to create a refugee-safe haven on campus signalling that refugees are welcome here. Contrary to popular belief, asylum seekers are not illegal. Everybody has the right to seek asylum and safety from persecution,” Ms Nolan said.

The action raised more than $200 which the group will also use to help send some of the students up to Port Hedland during the semester break. Two groups of students will go: one to protest, taking with them a banner made at their recent action, featuring the hand prints of people who support RRAN; the other group to visit the detainees.

A national day of action is planned for Saturday June 22 and Forrest Place, Perth, at 12 noon is where the action will be. RRAN meets on campus every Thursday at midday in Group Study Room 2 on the third floor of the Reid Library. For more information, the Website is www.rran.dhs.org.
Six weeks at Cowaramup Bay at the end of summer sounds like a dream field trip. But for four Zoology Honours students, it was very hard work.

The first day they arrived, a fisherman was tragically drowned in the bay and the students were washed off the rocks, and lost half of their equipment to the huge waves.

When the weather calmed down, their work began.

Jess Lynas, Belinda Barnett, Stephen Trent and Trudy Worthington, under the supervision of Dr Jane Prince, were funded by the Gracetown Progress Association to map out the distribution of animals in the different habitats within the bay.

"The community is concerned about how the bay will be affected by increased population and plans for development in the area," said Belinda Barnett. "There have been no detailed studies done in the area."

Dr Prince said deciding on a starting point, identifying what populations to concentrate on, made a difficult beginning to the project.

"We decided to concentrate on the macrobenthic invertebrates, which are animals larger than one millimetre living on the sea floor," said Jess Lynas. "It is these animals, in the intertidal zone, that would most feel the impact of any development, with more people on the beach, swimming, fishing, surfing and walking," she said.

Stephen Trent said they counted 27,500 animals within 91 different species, eight of which were endemic to the south-west.

"We could only hope to provide the community with a brief picture, an overview, a starting point for more research, as we didn't have any reference points from which to draw conclusions," they said.

The students said the community was extremely supportive, offering their help, always eager to talk to them about their work and putting on barbecues for them.

They responded by running an information and hands-on day for the year seven and year 12 students from the local school and organising a community workshop at the end of their research, to explain to the people what they had found.

"The bay is much more untouched than nearby Yallingup and we found, as we had expected, a good biodiversity," the students said.

"But we hadn't realised just how sensitive the environment was. Just by carefully sampling the fauna on a boulder, we caused a disturbance. And that was without turning it over, as so many beachgoers might do," they said.

The students have written up their thesis and now Dr Prince, with senior lecturer Dr Brenton Knott, will mould it into a report for the Gracetown Progress Association.

The students are now into the second part of their Honours year, their individual projects. All of them hope eventually to find work in the environmental field.
Forensic studies for foreign aid

It is costing the Rotary Club of Australia $25,000 for Michelle Harvey to study in South Africa. With the same money, they could build homes for 20 poor African families.

“But they trust me to give more to the southern African community than they are spending on me,” said the forensic science student with the big heart.

After eight months of research at the University of Pretoria, Michelle, who is working concurrently on a Masters of Forensic Science and her PhD at UWA, has also been heavily involved with community projects as well as sharing her forensic knowledge with the medical and legal professions.

Her research is into the molecular systematics of blowflies on corpses and she chose to do this in Pretoria, home to one of the world’s top veterinary science and biosystematics schools.

“While I’m studying evolutionary trends, I am also working towards being able to provide effective forensic evidence and this is something that I can teach them about here. I’ve been invited to lecture to doctors in Swaziland who have never heard of forensic entomology,” Michelle said.

“Because of the exchange rate, scientists here are stuck in their own country. They can’t get out to learn what the rest of the world is doing and they have no experience with DNA.”

Her work involves identifying different maggots on a corpse by using DNA.

“You think you’re coming to a Third World country, but the facilities here are fantastic,” she said.

But it’s a different story away from the university. She is working hard to improve life for underprivileged people.

Michelle’s Rotary Club in Pretoria has designed and had made small Braille slates at a cost of $10 each.

“They are the only way blind people here can communicate and commercially-made slates cost between $30 and $80, which puts them out of most people’s range,” she said.

She is collecting, with the help of her Rotary Club here (Nedlands) second-hand curtains for one of the poorest hospitals in Pretoria.

“They don’t have enough humidicribs and they were losing Continued on page 7
When people talk about country communities being in decay, they’re probably referring to their teeth.

There is a desperate shortage of dentists in rural areas and UWA’s Centre for Rural and Remote Oral Health (CRROH) is trying to remedy the situation.

Groups of fifth-year dental students are going out to the bush on rural placements for the first time this year. The new dental curriculum provides a much more practical final year than was offered to students in previous years.

The rural placement is an option that nearly half of the 32 students have chosen. All of them have taken part in a cultural awareness training program that has prepared them for working in the bush or even in the city with ethnic and Indigenous people.

The first group has recently completed internships at dental clinics in Busselton, Carnarvon, Esperance and Kalgoorlie.

Dr Marc Tennant, the director of CRROH, said the significant shortage of rural dentists across Australia was magnified in WA by the size of the state and the distances people had to travel to access a dentist in rural areas.

Professor John McGeachie, Head of the School of Dentistry, said he hoped the rural placement program would encourage dental graduates to consider rural practice when they graduated.

Leanne Coombe, who co-ordinates the placements, said providing oral health services in rural and remote communities presented many and varied challenges for health professionals.

"Isolated communities experience different social, physical and psychological health problems from their urban counterparts, which significantly impact on their dental health and subsequent treatment requirements," she said.

"Rural practice can be very rewarding and satisfying, meeting those challenges head-on, while developing a unique close-knit relationship with the clients and the community."

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Students get their teeth into rural issues

Michelle has been back to Australia twice since taking up her scholarship last October, once to attend the finals of the Young Australian of the Year (science and technology) award in her native Queensland.

Just before her recent flying visit to Perth (collecting curtains and cricket bats) Michelle had spent a week in Swaziland conducting autopsies on AIDS and murder victims.

"My first victim was a badly decomposed child. I was called in to take the maggots off the body to determine the time of death. I was worried about how I would react but it was actually a very positive experience for me. I want to help these people and I felt that if my work could help to find this child’s murderer, it was worth it."

Michelle came to WA from Queensland, after completing a BA and a BSc, to learn about forensic entomology with Dr Ian Dadour. She then won the Rotary scholarship, which she will complete in September, before returning to UWA to complete her postgraduate studies.
The committee will provide scientific and technical advice to the Gene Technology Ministerial Council and the Government’s Gene Technology Regulator, Dr Sue Meek.

“I am delighted to be appointed as chair and to be involved in assessing these important and powerful gene technologies,” said Professor Powles.

Matters which he and the committee will advise on include the biosafety aspects of gene technology and the need for policy principles, codes of practice and technical and procedural guidelines in relation to Genetically Modified Organisms and products.

One of the conditions of accepting a Rhodes Scholarship is that the scholar must not marry within 12 months. After that, it seems, they make up for it! At a recent cocktail party, hosted by the Vice-Chancellor, for Rhodes Scholars living in WA, several connections by marriage came to light.

The current Rhodes Scholar, Dr Angus Turner, found out that his aunt Brigid was married to Albert Haak, the brother of an earlier Scholar, Martin Haak (1975).

The Haak family had become friendly with another earlier Scholar, Andrew Burnett (1970) when Mr Burnett and his wife Barbara had immigrated from South Africa.

The Burnett family had also found out that they were related to Angus Turner because Mrs Burnett had gone to school with Dr Turner’s mother in South Africa.

Family relations aside, UWA always feels a special connection to the Rhodes Scholarships. The first woman to arrive at Oxford after it was decreed in 1977 that women were eligible for the Scholarship was Carol Jay, from UWA.

Almost 90 Rhodes Scholars have come from UWA, which is probably a world record in the (less than 100-year) history of the scholarship.

A special guest at the cocktail party in the Prescott Room in the Vice-Chancellery was Dr Albert Arcus, a UWA graduate and 1946 Scholar, who now lives in Houston, Texas, but comes home to Perth every two years.

Dr Brian Smith (1941) was the oldest Rhodes Scholar to attend the party.
Experts on biodiversity will gather in Albany in October to think creatively about the threats of spreading salinity.

The week-long international conference is jointly convened by the Centre of Excellence in Natural Resource Management (based in Albany) and the CRC for Plant-based Management of Dryland Salinity (based at UWA, Perth).

A program of field trips, discussion groups, workshops and submitted papers aims to address the threat to biodiversity of creeping salinity and to find outcomes with which to formulate guidelines for solutions to this urgent problem.

Each day of the conference will pose a new question: Can we meet the water requirements for biodiversity? How resilient are species and ecosystems? What are the options for protection and restoration? And what are the priorities for policy and research?

Ecology guru Steve Whisenant from Texas AM University is one of the keynote speakers, who will look at the role of ecological restoration in managing biodiversity in salinising landscapes.

Tim Flannery will give the conference keynote address. Professor Flannery, an eminent ecologist and Director of the South Australian Museum, is a world leader in raising our consciousness to the dangers of an urbanised society uncoupled from its natural environment; He will present: “Determinants of life: an Australian perspective”.

Field trips will be held throughout the conference. After the conference, delegates are invited to visit the Fitzgerald River National Park, one of the world’s ‘hotspots’ of biodiversity.

During the conference, the field trips include the south coast estuaries west of Albany, the Stirling Ranges and the wetlands, east of Albany.

For more information or to register for the conference visit the Website: www.biodiversityconference.albany.uwa.edu.au or contact the conference chairman, Marcus Blacklow (mblacklo@agric.uwa.edu.au).

Aquatic ecology students were shocked to find a much bigger reduction in biodiversity in salinising landscapes than they expected.

A group of 30 students taking the third year science elective under Associate Professor Peter Davies, spent a week sampling fish and invertebrates in the Kalgan and King River catchment areas in the Albany region.

Professor Davies, formerly with Zoology, moved to Albany at the beginning of this year to work in the Centre of Excellence in Natural Resource Management, a collaborative centre which is based at the State Department of Agriculture in Albany.

He has been travelling up to Perth to teach the course but his students joined him in Albany for the recent field trip.

“They found that even relatively low levels of salinity caused a big reduction in biodiversity – much bigger than we thought, which makes the restoration of salt-affected areas an even bigger problem,” said Professor Davies.

“And we’re told the problem is not going to peak for another 100 years!” he said.

Small areas in the subcatchments of the rivers system are less salty and provide little pockets of biodiversity which give a clue to what should be living in the main rivers.

“Ten per cent seawater (which is how salinity is measured) is considered low salinity, that is 3.5 parts per thousand. You can already see the affect on the diversity of animals living there. At 50 per cent seawater, most of the native species are lost. And at even higher levels, only introduced species are still surviving,” he said.

The students are preparing a poster on their findings for a biodiversity conference in October (see story, right).

As well as science, mainly zoology students, Landcare members and staff from government agencies are doing the course. “For them, it’s not about accruing points but progressing their careers,” Professor Davies said. “We see it as part of our job in the Centre of Excellence to offer things that are a bit different, like including members of the community in an otherwise academic course.”
The fourth anniversary of Sorry Day was marked with a reconciliation forum, a photographic exhibition and the distribution of a book, in the Lawrence Wilson Art Gallery.

The book and exhibition, Echoes of the Past – Sister Kate’s Home Revisited, were echoed by the forum’s speakers, who had all been connected to Sister Kate’s, either as children, parents or workers.

In the spirit of Sorry Day, Noongar elder Ben Taylor extended a traditional welcome, Deputy Vice-Chancellor Professor Alan Robson talked about reconciliation at the University, and the four speakers told their stories of oppression, dispossession and healing.

Professor Robson said that he was committed to supporting the intention of the newly-created School of Indigenous Studies that no graduate would leave the University without an awareness of Indigenous culture.

“We want all our architects, doctors, lawyers and psychologists to understand that there is more than one way (the Western way) of looking at things,” Professor Robson said.

Gladys Milroy, the forum’s first speaker, spent her childhood at Parkerville children’s home, the forerunner to Sister Kate’s. She asked how their people could have survived having their children taken away from them.

“The answer is in our spiritual heart,” she said. “In the spiritual landscape, things never change. In that landscape, my mother still had us with her, whereas, in the human landscape, we had been taken away. It was her spiritual heart and the spiritual heart of all our people that enabled us to endure and survive.”

Glenys Collard represented her father Don who was unable to attend. She is one of Mr Collard’s nine children who were taken away from him and his wife.

“Dad is in his 70s and he has never met with or spoken to any other parents whose children were taken away. He’s desperate to meet other parents because he is still full of hurt and anger that he doesn’t understand,” she said.

Aboriginal poet Graeme Dixon said he began reading and writing when he was in gaol, as a young man, not long out of Sister Kate’s. “We were institutionalised and couldn’t survive in the outside world,” he said. “I met up with a lot of my friends from Sister Kate’s in gaol.”

Joan Winch worked as a young girl at Sister Kate’s. She went on to make a name for herself as a fighter for Aboriginal rights and also established an internationally award-winning health program for Aboriginal children.

“When I was there, the pay was three pounds a week. It wasn’t good, so it didn’t attract good people to work there. In fact, we often had the dregs of society looking after the kids and ending up causing them psychological damage.

“Many of those kids ended up depressed or in gaol, after their terrible treatment. And now their children are on the streets, getting into trouble. We can’t blame those parents because they were disenfranchised, they were institutionalised, they grew up without learning any living skills, they knew nothing about caring for themselves so they are unable to care for their children.

“It’s a horrific track that we have had to walk and we have had to be strong in our conviction and say we are proud to be Aboriginal.”

During the week of the University’s Expo, the Black Swan Theatre will be staging its production of Copenhagen at the Octagon Theatre with a matinee on the day of Expo, Sunday August 25.

Copenhagen is the story of the two key nuclear physicists in the development of nuclear fission and the atom bomb. It retells their classic meeting in Copenhagen at the start of the second World War.

One of them later defected to the United States and ended up working on the atom bomb that eventually ended the war. The other stayed in Europe and worked with the Nazis on a similar project but without the success of his colleague.

After the war, each has a different account of what transpired at that meeting.

The play is on the Year 11 and 12 curriculum this year, so prospective students visiting Expo should make up an enthusiastic audience.

Just as an atom is made up of three elements (proton, neutron and electron), so the play mimics that construction with just three characters revolving around and relating to each other.
If you have a secret spot on campus, a favourite feature or a little-known fact to share, please send it to us: lindy.brophy@uwa.edu.au or phone extension 2436, fax 1192.

The Oak Lawn became a snowfield recently as Uni Camp for Kids (UCFK) ran one of its three day-long picnics for underprivileged children.

With the help of a snow machine from Sydney, most of the children had their first taste of snow while the students who hosted them experienced their first picnic on campus.

Usually the picnics are held off campus, and the students, who play parents for the day, provide food, transport and any entry fees. The snowfest was also sponsored by BankWest and Air Liquide.

Since 1963, UCFK has been making fun for about 300 underprivileged children each year. The children are recommended for the program by Government and private welfare organisations.

The student group takes about 200 children away on a three-week camp over the summer holidays, which is paid for by fund-raising events.

As well as the snow, the children enjoyed fire engine rides, learning circus tricks with Bizr circus, pony rides and fairy floss.

Uni Camp for Kids president Luke Van Zeller said it was great to see the kids having a fantastic time. “It’s fabulous that so many UWA students and Guild volunteers want to be involved in giving something back to the community,” he said.

A boriginal undergraduates were recently awarded scholarships commemorating four women devoted to the Aboriginal cause.

Eight from UWA were each presented with an Eveline Rosina Henty Scholarship, which is available to Aboriginal students studying full-time in their first undergraduate degree in W.A.

One of this year’s winners, Deborah Katona, is from Darwin and chose UWA for her arts degree because she knew there was a big group of Darwin students here, which meant she would not feel so isolated.

Deborah, a single mother of a five-year-old son, James, had been working in retail but wanted to improve her employment prospects. She is currently in the first year orientation program run by the Centre for Aboriginal Programs and expects to move into the mainstream in second semester.

“Shenton House is very supportive — just the thought of entering an institution like this can be daunting. But it’s great that, as soon as you arrive at UWA, Shenton House helps you to establish networks and other students become your mentors,” Deborah said.

Third year law student Karen Ward won the Lilian Harris Scholarship.

The Gloria Brennan and Christine Morrow scholarships were won by students from Edith Cowan University.

Help for young scholars

Deborah Katona’s son James was at UWA to see her receive her award when the winter sun beckons you from your offices and labs at lunchtime, it’s always a delight to take a wander around our beautiful grounds. But it’s even better when you discover a CAMPUS Secret you hadn’t noticed before — like this arched gateway to the Somerville Auditorium, tucked in under the trees between the Octagon and the New Fortune theatres.

In summer, it’s usually locked to stop people going in to the movies by the wrong entrance and it looks quite ugly with its NO ENTRY sign. But it’s a treat in winter!

If you have a secret spot on campus, a favourite feature or a little-known fact to share, please send it to us: lindy.brophy@uwa.edu.au or phone extension 2436, fax 1192.
The 50 year road to the Rural Clinical School

The main task of medical schools is to provide the appropriate numbers and types of doctors necessary to serve all the citizens in their catchment area.

This was the reason for setting up a new medical school in WA 50 years ago. Appropriately, the theme of the 1955-6 West Australian Medical School appeal was ‘Grow your own doctor’.

The rural population comprised 25% of the State’s population but contributed 77% of the individual donations in the expectation that the new medical school would ‘solve forever the shortage of doctors in the country’.

In 1959 I returned from Adelaide to complete my last two years in the new medical school. There were many exciting innovations aimed at broadening our life experience. These included Wednesday morning lectures by interesting people such as Percy Cerutti, the eccentric athletics coach of John Landy and Herb Elliot, Miss World and a lion tamer from Worth’s circus. But we never heard from a rural doctor or even visited one.

I mentioned this to Eric Saint, then Professor of Medicine and a former RFDS doctor in Port Hedland. He arranged for me to spend six weeks in Collie. Under the tutelage of four outstanding general practitioners and Matron Anstey (later matron of Sir Charles Gairdner Hospital) I learned more in six weeks than I would in half a year at Royal Perth Hospital.

Despite this and similar voluntary student experiences, a rural term did not become a compulsory part of the medical curriculum until 1977. Since then students spend a four week term in practices from Kununurra in the north to Esperance in the south.

But the shortage of rural doctors continued and in 1985 had become a political hot potato. With an election in the offing the State Minister of Health tried to diffuse the situation by calling for a Committee of Enquiry. I was Chair and Professor Richard Joske, the then Dean, represented the medical school. That enquiry made 51 recommendations of which 50 have been acted upon. The mechanism for action was to be the West Australian Centre for Remote Rural Medicine which was set up 1989. The findings of that report were also the ammunition used by the new Rural Doctors’ Association of Australia which had just started up as a political lobby group.

By 1992 the Federal Government was taking notice and announced the Rural Incentives Program aimed at improving rural Australian’s access to GP services. $2.5 million of that money went to University Departments of General Practice to set up a program which would challenge medical students to pursue a career in rural and remote practice. The committee overseeing the money was called the Rural Undergraduate Steering Committee (RUSC). It laid down two requirements for continued funding. Affirmative selection for rural students (known to be disadvantaged in obtaining the necessary TEE scores) and a minimum of eight weeks rural medical contact. This small carrot and stick approach resulted in a positive change in the way Australian medical schools accepted a responsibility for contributing towards solving rural workforce issues.

RUSC was also given money for projects of national significance. The largest of these was a pilot scheme placing 10 year 3 Flinders University students in general practices in the Riverland region of South Australia for one year. This project has been a continuing education success story. After Jeff Kennett unexpectedly lost the 2000 Victorian election, the Federal Government worried about the rural vote. They cast about for projects which would improve their credibility with rural voters. One project was to extend the work of Flinders University to all medical schools. And so the WA Rural Clinical School was born.

The Department of General Practice has been the pathfinder for initiatives in rural and remote medical education both in WA and in the rest of Australia. Paediatrics and Surgery have also been innovative in this area. But the Rural Clinical School is larger than General Practice and gives all disciplines within the medical school (and some others at U W A) the challenge and opportunity of an on going contribution in solving the shortage of adequately trained doctors in rural and remote WA.

Hopefully, our 1956 promise to the rural population of Western Australia is coming closer to fulfilment.

Professor Max Kamien
Head, Department of General Practice
**Research Grants & Contracts**

**ALCOA/AUSTRALIAN RESEARCH COUNCIL LINKAGE**

Prof Johannes Lambers and Dr Erik Veneklaas, Plant Science, and Dr J. M. Koch (external): 'An ecological analysis of key factors determining jarrah forest productivity on rehabilitated bauxite minesites' — $45,000 (2002-04).

**ANTARCTIC SCIENCE ADVISORY COMMITTEE**


**AUSTRALIAN FISHERIES MANAGEMENT AUTHORITY**

Dr Euan Harvey, Botany and A/Prof M. Shortis (external): 'The implementation and validation of a stereo-video system for measuring the length of Southern Blue Fin Tuna during transfers' — $46,000 (2002).

**AUSTRALIAN LUNG FOUNDATION**

Mr G. L. Hall, ICHR: 'Relationships between lung volume, function and hyper-responsiveness in infants with and without disease' — $24,000 (2002).

**AUSTRALIAN RESEARCH COUNCIL LINKAGE**

A/Prof W.allocate Cowling (left), Ms Kirsty Bayliss and A/Prof Stanley Kailis, Plant Science: 'Exploring the Arabidopsis genome sequence as a molecular toolbox for Brassica improvement' — $254,567 (2002-04).

**AUSTRALIAN RESEARCH COUNCIL: DISCOVERY PROJECTS**

Dr Ian Mclean, Architecture and Fine Arts and Dr John Stanton, Berndt Museum of Anthropology: 'The reception of Aboriginal art in the twentieth century' — $180,561 (2002-04).


Dr L. D. Dousset, Anthropology: 'African western desert kinship and land tenure systems' — $199,500 (2002-04).

Dr Alistair Paterson, Anthropology (right): 'The historical archaeology of the post-European period in the Pilbara, Western Australia' — $45,000 (2002-04).

Prof Robert Tonkinson, A/Prof Victoria Burbank and Dr Myrna Tonkinson, Anthropology: 'Inequality, identity and future discounting: a comparative ethnographic approach to social trauma in aboriginal Australian communities' — $152,194 (2002-04).


Dr Susan Broomhall, History: 'Gender and the production of early modern French medicine' — $201,467 (2002-03).


Dr Paul Miller and Dr Anh Tram Le, Economics: 'Youth in Australia: education and work' — $158,000 (2002-05).

Dr Liang Cheng, Civil and Resource Engineering: 'Numerical modelling of local scour below offshore pipelines' — $168,000 (2002-04).

A/Prof Arcady Dyskin, Civil and Resource Engineering: 'A new concept in design of materials and structures based on topologically interleaved elements' — $203,000 (2002-04).

Prof George Milne, Computer Science and Software Engineering and Dr O. Diesel (external): 'Formal specification and realisation of dynamic reconfiguration in FPGA-based systems' — $218,593 (2002-04).

Prof Robyn Owens (right) and Adj/Prof Michael Arbib, Computer Science and Software Engineering: 'Visual solutions for automated translation between spoken and signed languages' — $117,000 (2002-04).

A/Prof David Sampson, Electrical and Electronic Engineering: 'Advances in optical coherence tomography' — $240,000 (2002-04).

Prof David Hamilton, Prof Jorg Imberger and Dr B. Robson, Environmental Engineering: 'Critical flux paths influencing ecological processes in an urban estuary' — $250,000 (2002-04).

Dr Jiti Gao, Mathematics and Statistics and Prof M. L. King (external): 'Non-parametric and semiparametric approaches in non-linear time series econometrics and financial econometrics' — $99,000 (2002-04).


Prof Mark Bush, Mechanical and Materials Engineering and Dr H. S. Kim (external): 'Determination of the properties of hyper-elastic materials by deep indentation' — $154,000 (2002-04).

A/Prof George Yeoh, Biochemistry, and Prof C. M. King (external): 'DNA interactions of polynuclear platinum. mechanistic in MR studies probing the origin' — $290,000 (2002-04).

Dr Robert Stamps and Mr Robert Woodward, Physics: 'Time and frequency resolved magnetometery' — $252,186 (2002-04).

Dr Robert Stamps and Em/Prof Robert Street, Physics: 'Theoretical and experimental studies of exchange bias in thin films' — $253,000 (2002-04). A/Prof Stephan Lewandowsky and Dr Michael Kalish, Psychology: 'Models of knowledge restructuring' — $150,000 (2002-04).


Prof Johannes Lambers and Dr Kingsley Dixon, Plant Science: 'The genus Banksia: can ecophysiological traits associated with nutrient acquisition explain species distribution and rarity?' — $246,000 (2002-04).

Dr Leigh Simmons, Zoology: 'Research Probing JNK MAPK function with peptide inhibitors' — $141,000 (2002-04).

Dr A/Prof Paul Attwood, Dr Marie Bogoyevitch and A/Prof George Yeh, Biochemistry, and Prof C. W. Turck (external): 'Mammalian histidine kinase: its characterisation and role in hepatic cellular proliferation' — $141,000 (2002-04).

Dr Marie Bogoyevitch, Biochemistry and Dr P. M. Waddell, ICHR: 'Research Probing JNK MAPK function with peptide inhibitors' — $141,000 (2002-04).

Prof David Blair and Dr Li Jiu, Physics, and Prof K. Kuroda and Dr D. H. Reitze (external): 'Experiments with advanced isolation systems, suspension and test masses using ACIGA's high power test facility' — $1,239,411 (2002-06).

Drs Robert Stamps and Dr Kevin N. Sircombe, Geology and Geophysics: 'Integrated provenance analyses: towards better ways of interpreting the source of ancient sediments' — $202,118 (2002-05).

Prof Johannes Lambers and Dr Kingsley Dixon, Plant Science: 'The genus Banksia: can ecophysiological traits associated with nutrient acquisition explain species distribution and rarity?' — $246,000 (2002-04).

Dr Leigh Simmons, Zoology: 'Sperm competition and sexual selection' — $390,000 (2002-06).

Prof Philip Wthers, Zoology (right) and Dr G. G. Thompson (external): 'Ecophysiology of water-holding frogs of the Australian arid-zone' — $231,000 (2002-04).

Research Grants & Contracts will feature in each issue of the UWA times. Any queries about the research grants published in this issue should be directed to the Research Grants O(ice, ext. 3702.
Contact Terri-Ann White on 9380 2114.

**Monday 17 June**

**ASTHMA AND ALLERGY RESEARCH INSTITUTE SEMINAR**

‘Maggots in the justice system: forensic entomology and what it can do for the dead’, Dr Ian Dadour, Forensic Science. 12.30pm, lunch provided from 12 noon, Joske Seminar Room, Medicine, Fourth Floor, G Block, Sir Charles Gardner Hospital.

**Wednesday 19 June**

**ENVIRONMENTAL DYNAMICS SEMINAR**

‘Sedimentary indigestion: gas bubble formation and movement in sediments’, Prof Bernie Boudreau, Dalhousie University. 4pm, Blakers Lecture Theatre.

**ANATOMY AND HUMAN BIOLOGY SEMINAR**

‘Lifestyle and psychosocial determinants of human fertility’, A/Prof Neville Bruce. 1pm, Room 1.81, ANHB Building.

**FRIENDS OF THE UWA LIBRARY MEETING**

‘On loving the Colorado School of Mines: the future of humanities in universities’, Prof Tom Stannage, Curtin University. 7.30 for 8pm, Library Training Room, Reid Library. Members: free; Non-members: $5 donation. For further information call 9380 2356.

**Friday 21 June**

**CLINICAL RESEARCH IN NEUROPSYCHIATRY SEMINAR**

‘Evolutionary psychology and constraints on religious ideation: a possible window into thought disorder’, Reverend Dr Peter Sellick, Ecumenical Chaplain, Department of Pastoral Care Services, Sir Charles Gardner Hospital. 3.30pm, Seminar Room 3, Gasyone House, Graylands Hospital.

**Monday 24 June**

**PLANT BIOLOGY SEMINAR**

‘Nitrogen relations in a eucalyptus globulus plantation’, Steve Livesley. 4pm, Agriculture Lecture Theatre.

**LIBRARY SEMINAR**

‘New electronic tools for studying literary texts’, Dr Peter Robinson, Centre for Technology and the Arts, De Montfort University. 3pm, Library Training Room, Ground Floor, Reid Library.

**Monday 24 June**

**LANGUAGE IN TIME SYMPOSIUM**

‘Language change across the lifespan’, Prof Gillian Sankoff, Linguistics, University of Pennsylvania. 6pm, Geography Lecture Theatre 1. For further information, contact Terri-Ann W hite on 9380 2114.

**Tuesday 25 June to Thursday 27 June**

**LANGUAGE IN TIME SYMPOSIUM**

The symposium includes a range of international scholars and will be opened by Prof Alan Robson at 9.15am (25 June). Registration is required: students $40; staff $60 and all others $100. For program update please refer to: http://www.arts.uwa.edu.au/LingWwW/langsci/2002/symposium.html.

On 26 June, the public lecture will be given by Prof William Labov from the University of Pennsylvania. The topic will be ‘Using our knowledge of linguistics change to close the minority gap in reading’. 6pm, Geography Lecture Theatre 1. On 27 June the public lecture will be given by Prof Stan Kuczaj from the University of Southern Mississippi. He will speak on ‘Thoughts on dolphin thinking and communication’. 6pm, Geography Lecture Theatre 1.

**Tuesday 25 June**

**LWAG TALK**

‘Lloyd Rees: place and emptiness in Australian landscape’, Alan Rees. 1pm, LW AG.

**Friday 28 June**

**CLINICAL RESEARCH IN NEUROPSYCHIATRY SEMINAR/PERTH MEMORY GROUP**

‘Effects of vitamins and antioxidants on memory in a genetic model of Alzheimer’s disease’, Associate Professor Mathew Martin-Iverson, Psychiatry. 2pm, Seminar Room 3, Gasyone House, Graylands Hospital.

**CLINA SEMINAR**

‘Integrate, segregate or rotate trees with crops and perennial grain crops for high water use’, Dr Ted Lefroy, CSIRO. 4pm, CLIMA Seminar Room.

**Wednesday 26 June**

**AUSTRALIAN FEDERATION OF UNIVERSITY WOMEN (WA) ANNUAL BIRTHDAY DINNER**

Guest speaker will be Prof Lesley Parker AM, Senior Deputy Vice-Chancellor, Curtin University. Special guest will be Julia Frodsham, Religious Education Officer, Anglican Education Office. The dinner and entertainment will be held at the Petersham Golf Club, 6pm. Members: $15; Non-members: $20. RSVP to Karen at afuwew@cygnus.uwa.edu.au or phone 9386 3570.

**ADVANCE NOTICE**

**Monday 1 July**

**PLANT BIOLOGY SEMINAR**

‘Alkaloids in narrow-leaf lupin’, Patrizia Gremigni. 4pm, Agriculture Lecture Theatre.

**Grants from the General Staff Development Fund**

Members of general staff may apply for individual grants from the Staff Development Fund to attend courses and conferences. In the last rounds of applications, the following staff were awarded grants:

- Lara Vernon, A/Professor, Computing Services, CAWorld 2002
- Stephen Grey, Animal Science, Australian Master Tree Grower Programme
- Christine Bapt, Archives and Central Records, Introduction to Recordkeeping Metadata
- Loisua Chauhan, Centre for English Language Teaching
- 6th National DoS Management Conference
- Lindsay Byrne, Chemistry, 4th Biennial Conference of ANZMG AG and Broker Users Meeting
- Nigel Hamilton, Chemistry, Vacuum Technology
- Dr Duko Vuckovic, Chemistry, Vacuum Technology
- Susan Beardman, Faculty of Arts, Humanities and Social Sciences, AVCC Leading the Academic or Administrative Unit Programme
- Veronica Coram, Faculty of Arts, Humanities and Social Sciences, AVCC Student Administration Conference
- Catherine Smith, Human Resources, Concept Users Group Conference
- Dr Paul W Ison, Human Resources, Mastering Microsoft Visual Basic 6.0 Fundamentals
- Rhonda Haskell, International Centre, AusAID Liaison Officer’s Conference
- Julia Frodsham, Legal Services, Intellectual Property Conference
- Monika Szmnik, Library, 14th National Cataloguing Conference
- Rosemary Ingham, Medical and Dentistry, Rural Clinical School, 5th World Conference on Rural Health
- Margaret Edwards, Research Services, Quality in Postgraduate Research Conference
- Sandra Maynard, Soil Science and Plant Nutrition, Open Space Training
- Sato Juniper, Student Services, Quality in Postgraduate Research Conference

Staff interested in obtaining more information about the programmes should contact grant recipients directly.

The remaining closing dates for grant applications in 2002 are Wednesday 10 July and Wednesday 2 October.

Guidelines and application forms are available from the Centre and at http://www.acs.uwa.edu.au/hrs/policy/part06/5.htm.

There will be no issue of UWA NEWS published on July 15. Many staff take advantage of the semester break coinciding with school holidays, which means a much-reduced readership. Please ensure that all notices for Campus Diary for that period are in early, for publication in the July 1 issue (deadline June 19).
BUILDING STRONGER RELATIONSHIPS

Need TEMPORARY, CONTRACT or PERMANENT staff?

Works Skills Professionals are proud to be a wholly owned and operated WA Company. We are a preferred supplier to State Government agencies and subsidiaries through the DoIT 63200 panel contract. We supply staff in the areas of:
- Administration/Clerical
- Professional/Technical
- Skilled/Unskilled Labour

We have been supplying candidates with previous tertiary (University) experience to UWA since 1993. We have developed a Star Education Performers list to capture these experienced people, which is emailed out on a regular basis to a variety of tertiary institutions, advising them of experienced, immediately available candidates. Please let us know if you want to be on the email list.

Try us — we are sure you will note the difference
Give our friendly staff a call on
Ph: (08) 9201 7777 Fax: (08) 9201 7778
requestwa@workskillsprofessionals.com.au
or email us on
www.WorkskillsProfessionals.com.au

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

Classifieds

WANTED TO RENT

ACADEMIC VISITOR FROM USA on sabbatical requires fully furnished, one-storey four bedroom house in Cottesloe/Claremont or surrounding area from approx. mid December 2002 to May 2003. Preferred location would be near beach and access to public transport. Please contact Sabine Betts, sabine@ee.uwa.edu.au or phone 9380 3801.

VISITING PROFESSOR SEeks FOR FIRST SEMESTER 2003, fully furnished and equipped 3 bedroom house, well situated for public transport and ideally within easy reach of UWA. Currently (till 23 June) at UWA and contactable on ext. 2947 (Law); or email at any time at daintt@hotmail.com.

TO LET

TWO BEDROOM FULLY-FURNISHED UNIT in Claremont available mid June for approx. six months. Close buses, trains and shops, security building, swimming pool, undercover car park. Rent negotiable around $185 pw depending on length of lease. Contact freddy@cyllene.uwa.edu.au or extension 141.

BEACH FRONT APARTMENT available for short-term rental. Available mid July through to early September. Furnished, 2 bedroom and study. On the beach in Cottesloe, close to shops, cafes, train and bus routes. For more information, please contact Dr Thor Besier and Daina Sturnieks on 0411438181 or email dainals@cyllene.uwa.edu.au.

SHENTON PARK, modern 2 bedroom townhouse with front garden and backyard with covered car port with delightful look on the Rosalie Park; walking distance to UWA, CSIRO, QEIMC, KEH and SGH. Close to King Park, Subiaco theatres and restaurants, transport, primary and high school. Ideal for visiting academics, scientists or medics. Available now. $260/week. Possibilities for furnished as well. Contact 9382 3281 or 0402 411 132.

NEDLANDS, Park Road, $250/week. Double storey front townhouse with private courtyard and glorious northern/winter sun. Refurbished with terracotta tiles granite/timber look deluxe kitchen and imported live appliances. Comprising 3 bedrooms, formal lounge, separate dining, 2 WC’s, air conditioning, storage room and carport. Close to transport, QEIIMC, KEH and SCGH. Close to King Park, Subiaco theatres and restaurants, transport, primary and high school. Ideal for visiting academics, scientists or medics. Available now. Contact 9386 6139 or yogesan@cyllene.uwa.edu.au.

HOUSE FOR RENT, 14 Cosmoora Road, Mt Pleasant. Features formal dining and lounge area, 4 bedrooms, 2 bathrooms and toilets, separate kitchenette besides the main kitchen, sunroom, laundry, carport and separate parking area, big backyard and reticulation - front and back lawn. Walk to Garden City Shopping Centre, Canning River and direct bus lines to the city, close to shops. Rent: $260/week. Contact: Professor Simpson Poon at spoon@csu.edu.au.

FOR SALE


MITSUBISHI VERADA EI (1995), one owner, low mileage, excellent condition, log books. Available for viewing on request. $12,000 or nearest offer. Contact Wendy Edgeley on ext 2450 or wedgeley@admin.uwa.edu.au.

PROVIDING short-term, fully furnished accommodation to UWA since 1982

Kenata Rental Apartments

37 Fairway, Crawley (Cnr Edward St)
http://reachme.at/kenata

Rental accommodation Perth Western Australia. 2 bed apartments in Crawley opp. UWA, Nedlands. Peace and privacy, suit academic or prof’l alone/with family. Equipped and fitted ready for you – air con, col. TV, Queen-size bed, phone, full kitchen, all linen and utensils.

Off-street parking, on-site manager.
Close to UWA, shops, meals and petrol. Many public transport options.
Short-term and longer welcome – personal attention by owners

Enquiries: 0412 953 100 Fax/Msg: (08) 9389 8326

Call for a comparative, obligation free, quote.

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Call for a comparative, obligation free, quote.
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<td><a href="mailto:mccaula@cyllene.uwa.edu.au">mccaula@cyllene.uwa.edu.au</a></td>
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<td>$2400</td>
<td>4</td>
<td>1</td>
<td>Jeremy</td>
<td><a href="mailto:jfoster@agric.uwa.edu.au">jfoster@agric.uwa.edu.au</a></td>
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<td>Offers</td>
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<td>Ian</td>
<td><a href="mailto:ikryan@hotmail.com">ikryan@hotmail.com</a></td>
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<td><a href="mailto:ikryan@hotmail.com">ikryan@hotmail.com</a></td>
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Bids should be accepted by Monday 1 July with departments to have first option

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

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