Serendipity in biomedical science

by Lindy Brophy

Cancer researchers Janelle Pelham (left) and Maria Franchina with research subject Maggie

“...many forms of human cancer also develop spontaneously in dogs ... (and) domestic dogs are subjected to much the same environmental conditions as humans ...

Original approaches to investigating the causes of cancer have led a pathology research team down some unexpected new pathways.

Maria Franchina, working with Dr Peter Kay in the Department of Pathology, has found surprising evidence that challenges the accepted theories of human evolution.

And Janelle Pelham, also working on her PhD with Dr Kay, has developed a unique model for the testing of specific anti-cancer drugs that are now being developed in the United States.

Her model is the domestic dog.

For many years, investigators in Dr Kay’s laboratory have been working on understanding the role of DNA methylation in cancer. DNA methylation refers to the chemical attachment of a methyl group to one of the bases in DNA, cytosine.

“Our work and that of others worldwide has established that the attachment of methyl groups to DNA is defective in many different types of cancers,” Dr Kay said.

“An appropriate model for testing new therapeutic agents aimed at correcting defects in DNA methylation was not available. Interestingly, many forms of human cancer also develop spontaneously in dogs, and we have recently demonstrated that, as in humans, genomic DNA is profoundly hypomethylated in dogs suffering from lymphoma and leukaemia, therefore it will serve as the best model to test novel anti-cancer drugs,” Mrs Pelham said.

“Another reason for choosing the dog model is that domestic dogs are subjected to much the same environmental conditions as humans.”

Mrs Pelham, who has been working with Murdoch University’s Veterinary and Biomedical Sciences Division, has...
Can 'quiet achievers' sometimes be too quiet about their achievements?

UWA has traditionally not engaged in aggressive advertising. Yet, these are indeed competitive times. Every university knows that attracting the very best of students is a foundation stone to its quest for excellence and public esteem.

Our own approach has been to direct the funds which can be easily consumed (and forgotten) in glossy campaigns into programs of outreach - close liaison with the schools, equity scholarships and leadership awards, special entry programs, summer scholarships, faculty open evenings and open days, not to mention the constant efforts of Public Affairs to have news items placed in the media about our staff, students and research. Our Alumni, and Convocation itself, are also great ambassadors for UWA in the community.

Above all, we want to convey to prospective students a very real sense of a university which offers an excellent comprehensive education, a basis for professional and personal lives of fulfilment and service.

Concentrating on quality, rather than an image, has so far brought us very positive results.

Over the last few years UWA has continued to attract the best and the brightest of school leavers. Published data indicate that our cut-off scores are now the highest of all Australian universities. And the margins between our entry scores and those of the other State universities generally remain substantial.

And we know that our students continue to rate the experience once they are here, and once they have undertaken a UWA degree program on this wonderful garden campus, very positively.

I have previously drawn your attention to the positive ratings we have been obtaining from the reports of the Graduate Careers Council, and the composite star system of the Good University’s Guide.

This past month we have just had released the most wide-ranging of DETYA performance outcome statistics in the CEO. They have reflected responses to questionnaires dealing with such key elements as teaching quality, generic skills, crude retention rates, percentage of graduates in full-time employment, starting salaries and overall satisfaction rating.

A couple of broad themes stand out from complex response data. The Go8 research-led universities do exceptionally well. And UWA is an exceptional performer in that group.

While we are not number one in every division of performance - a challenge to innovate further - there is also a great deal in which UWA should take great pleasure and pride.

Our UWA students clearly value the attributes which their education at Crawley has given them. UWA graduates are also much more likely to find employment than graduates from any other Western Australian university, and to enjoy a greater starting salary.

Whilst the DETYA data are, ultimately, not grouped into a national ranking table – as is the case in the UK – The Australian’s Higher Education Supplement story on the report concluded that:

“The top comprehensive university on this scorecard would be The University of Western Australia ...”

We shall not turn that compliment into a huge, expensive marketing campaign on TV!

But we should not regard it as a secret.

A carefully designed campaign of highlighting this fact will follow - in notices for prospective students, school literature and selective positioning advertising.

Even ‘quiet achievers’ are allowed to share their achievements with the world.

Professor Deryck Schreuder
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A ustralian Rules football is unique. But it is not just the shape of the ball, the size of the field, the tackling rules and the breathtaking marks that make it different.

Players’ preparation and their recovery routine after a game are football-specific. Researchers in the Department of Human Movement and Exercise Science are currently working out the best methods for footballers to recover from the stresses and strains of a game.

Their work is funded by an AFL Research Project grant.

Leading the team is Dr Brian Dawson, a former WAFL footballer, senior lecturer and Director of the Centre for Athletic Testing at UWA.

“We are testing different recovery techniques with players from the East Perth football club over 12 weeks,” Dr Dawson said. “We are looking for the best method to improve their rate of recovery in this specific context, which is to have them ready for training 48 hours after the game.

The players are trying out four different types of warming down. For three weeks, they are stretching for 15 minutes after the game; for another three weeks, they are walking in the pool for 15 minutes; the third option is contrast immersion: 30 seconds in a tub of ice water followed by two minutes in a hot shower, repeated five times; and the fourth trial is doing nothing, just showering and sitting around relaxing.

They are tested every Thursday night (after their last training session before the weekend game), again after their post-game recovery, again on Sunday (when they also have a 30-minute recovery session in the pool) and finally on Monday evening during training.

Honours students Sarah Modra (Dockers’ full forward Tony Modra’s cousin) and Shane Gow, joined by Irish exchange student Mark Kilgallon, conduct the testing at the football club under the direction of Dr Dawson.

Each player does a flexibility test, a vertical jump and a six-second bicycle sprint, to measure leg power levels.

Dr Dawson said the contrast immersion baths were the most effective recovery treatments used by athletes during the Sydney Olympics.

“Cricketer Glen McGrath uses the technique regularly, as do some AFL players, while most footballers simply stretch for about ten minutes, then walk in the pool for about ten minutes after a game, followed by a Sunday recovery session.”

He said it was too early to gauge which method was most successful but anecdotal evidence points to the contrast immersion as being possibly better than the others.

“The technique is not popular with the players but some say that they seem to feel better during the week after the contrast immersion,” Dr Dawson said.

The warm down research is the second project funded by the AFL in Human Movement. Last year, Dr Dawson and his team conducted game analysis movements and activities.

“We counted the number of sprints, tackles, periods of jogging or walking, leaps for marks and how many times a player hit the ground.

“We found that, on average, a mid-fielder covers about 17 kilometres in a game, but more than half of that is at a jog or a walk. A player might have more than 100 high-intensity sprints during a game,” he said.

These results are being used locally for both Eagles’ and Dockers’ training routines.
An experience that’s totally wicked!

It’s easy to see that Khim Harris, Director of the UWA Siemens Science Experience, has a lot of experience himself, with high school students.

Mr Harris, a lecturer in Chemistry and Science Education, is co-ordinating his third ‘experience’ (as Director) and his initiatives have made it the biggest, most popular and most successful Siemens Science Experience (SSE) in Australia.

Up to 200 students about to enter Year 10 spend three days on the campus, experiencing all the sciences, including chemistry, physics, human biology, botany, zoology, geology, human movement and more.

Biomedical research leads to unexpected pathways …

been invited to The University of Bristol to set up collaborative studies with Professor Michael Day in the Veterinary School there.

Mrs Pelham has received a travel grant from the Cancer Foundation of Western Australia and a Postgraduate Research Student travel award from UWA towards her visit to the University of Bristol.

The novel approaches to cancer research undertaken by Dr Kay and his colleagues have also turned up findings relevant to other areas of science.

Maria has discovered that two different genetic forms of a methylating enzyme, DNMT2, each of which she has identified in different ethnic groups, do not fit the conventional evolutionary pathway.

“It’s very exciting and challenges the whole ‘out of Africa’ evolutionary theory,” Dr Kay said.

Challenging evolutionary theory

Their findings have been published in a paper pointing out that, “it is more likely that each of the two allelic forms of DNMT2 co-exist in humans because of hybridisation of two distinct ancient hominoid species.

“Its not something I ever expected to come across,” Miss Franchina said.

She has been trying to identify which of the methylating enzymes are responsible for defects of DNA methylation in cancer and whether different genetic forms of these enzymes influence susceptibility to disease development.

Examination of the DNA sequence of each of the DNMT2 alleles suggested that the most likely way that the two different genetic forms of the enzyme could be present in humans today was if they had evolved by two different evolutionary pathways”.

As well as a passion for novel research, Dr Kay and his colleagues share a love of animals.

Dr Kay is leaving The University of Western Australia and moving to the country where he and his wife will concentrate on alternative methods of training horses. He will continue to supervise his postgraduate students on a voluntary basis.
Students clean bowl museum

When Tracy Maitland left UWA’s Centre for Staff Development and took on the management of the WA Cricket Association museum, it had a low public profile.

She approached marketing lecturer Dr Jill Sweeney to find out how she should go about arranging a marketing plan.

“I asked how she’d like 30 marketing plans – free!” Dr Sweeney said and swung her Services Marketing class into action.

They visited the museum at the WACA headquarters in Perth, where it was established in 1974 by a group of cricket lovers. Apart from Ms Maitland as manager, the museum was run by 14 volunteers, and had nothing like the high profile of the museum at the MCG in Melbourne.

The students’ marketing plans included: diversifying what is on offer at the museum, to include a variety of sports and possibly become the WACA Sports Museum of Australia; tactics to encourage visitors to browse longer and spend more time in the recently developed shop; promotion through web-based directories and community and education-based media.

“The students really appreciated the opportunity to work on a real-life project,” Dr Sweeney said. “One of the most difficult aspects was to identify what product the WACA museum was offering, it’s an intangible experience.”

The students presented their marketing plans to Ms Maitland at the end of the project and she reports that she now has much clearer plans for the future of the museum.

On the recommendations of the students, she has expanded the museum shops, created an outdoor seating area, taken on a part-time assistant and plans are in hand to move the museum to the entrance of the WACA instead of it being tucked away deep within the buildings.

The WACA museum was the second real-life project for Dr Sweeney’s Services Marketing students. The first looked at marketing the Avon Valley. Both have centred on the tourism industry and their next project focuses on international tourists.

“Services are of huge importance in WA, with 70 per cent of businesses in the service industry and 80 per cent of the state’s work force in the services sector,” she said.

Recent developments in science and philosophy suggest that there is a fundamental unity in the organisation of life that traditional academic disciplines have ill prepared us to see.

“But evolutionary theory is well-equipped to foster a harmony among the biological, behavioural and social sciences …”

So goes the rationale for the Institute of Advanced Studies’ devotion to evolution this year. Five advanced seminars, led by visiting distinguished evolutionary scientists, began with a series on evolutionary medicine and public health.

This month and into August are three workshops: evolution and culture, evolution and sex and evolution and mind.

Each seminar has two consecutive day-long workshops, spearheaded by world experts and supported by our own academics from the disciplines of anatomy and human biology, archaeology, philosophy, psychology, and psychiatry and behavioural science.

Professor Sarah Hrdy, an anthropologist from the University of California Davis, is also a best-selling author who has sold more than a million copies of her book on motherhood. She will address the evolution and sex workshop on the village approach: co-operative breeders, infant needs and the future.

She will also present one of six free public lectures at the Constitutional Centre in West Perth, speaking on Maternal Love and Ambivalence in the Pleistocene, the 18th Century and Right Now.

The workshops (July 23-4, July 25-6 and August 2-3) and the public lecture (on each of those nights) should be some of the most fascinating and widely appealing sessions presented by the Institute of Advanced Studies.

To book for any of them, please ring Terri-ann White on 9380 2114 or email her at tawhite@cyllene.uwa.edu.au
New hope for older people

Is it as simple as a vitamin pill?

Simple vitamin supplements might provide the answer some of the most common disabling medical problems amongst aging people.

Depression, dementia and fractured bones (especially fractured hips among women) are some of the most likely conditions which cause older people to seek supported accommodation such as nursing homes or hostels.

UWA’s first Professor of Geriatric Medicine, Professor Leon Flicker and his research team are exploring the role of vitamin supplements among older people, in two projects that are believed to be the first of their kind worldwide.

The National Health and Medical Research Council has granted Professor Flicker $425,000 over three years for the two studies.

“The trial using vitamins to prevent cognitive impairment and depression is being carried out with a group of 300 men over the age of 75,” Professor Flicker said.

“Some of the group are taking regular doses of folic acid, vitamin B6 and B12 (while others take a placebo) as a homocysteine-lowering strategy. Homocysteine is an amino acid that tends to build up in older people.

“We found that 26 per cent of the older men we screened had high levels of homocysteine and 13 per cent of them were lacking in vitamin B12.

“Now these are healthy, active men with few medical problems, so the screening results were surprising,” he said. Just over 200 men in WA have been screened and have joined the trial and a further 100 will join later this year.

Associate Professor Osvaldo Almeida from the Department of Psychiatry and Behavioural Science, is working with Professor Flicker on this trial.

The other project, the completion of a study to determine if vitamin D supplements can prevent fractures and falls in older women in residential care, is being carried out with the assistance of 700 women in nursing homes and hostels in WA, NSW and Victoria.

“We chose to work with women because they make up 80 per cent of residents in nursing homes. And nursing homes and hostels are where a third of hip fractures occur,” Professor Flicker said.

The women, with an average age of 84 years, from 89 nursing homes and 60 hostels, are being given vitamin D daily. The last group of women joined the project in March last year and will complete their trial in April next year.

“We will know if vitamin therapy is successful when we look at the number of fractures and falls that have occurred in nursing homes over the two-year period,” he said.

Professor Flicker explained that vitamin D will hopefully reduce the number of fractures suffered by women who fall. But it may also reduce the number of falls.

“Previous studies have shown that a low vitamin D level in the blood is associated with the likelihood that a person will fall. It’s not certain, but vitamin D may help to decrease sway and increase strength.”

People with exposure to plenty of sunlight have adequate levels of vitamin D but Professor Flicker said residents of nursing homes and hostels rarely had access to much sun, so their levels dropped.

Vitamin D deficiency is a common and easily reversible nutritional problem in residential care.

These two projects are the first NHMRC-funded studies in the Department of Geriatric Medicine. The study on the older men is also supported by an unrestricted research grant from Pfizer CVL.
Making dying a part of life

A good death in contemporary Australian society no longer means being at peace with God but being content that your relationships with your loved ones are sorted out.

Anthropologist Dr Beverley McNamara (pictured above) has spent several years working with dying people, their families and their carers to understand the changing attitudes to death and dying and what they mean to Australians’ lives.

“Death has become very private. Only 22 per cent of people in Australia die at home. Most people die in hospital. The medicalisation of death has become particularly significant since the Second World War.

“But dying and death are social processes and, until we realise that, and start talking about it, we won’t be able to cope with it,” Dr McNamara said.

“Children no longer see their grandparents die at home; children often don’t go to funerals; people have so little connection with death and dying that when they come up against it, they can’t cope.”

Her recently-launched book, Fragile Lives, looks at the need to return to a more social, open attitude to death and dying and seeing it as part of life.

“It’s unhealthy to dwell on death but it needs to be much more out in the open,” she said.

One of the biggest changes in the processes of death and dying, apart from what Dr McNamara calls medicalisation, is the secularisation of contemporary society.

“Many people don’t have a strong religious belief and that makes preparing for death very challenging.

“These days, instead of making peace with God, dying people prefer to review what they have done in their lives and settle relationships here on earth.”

She said that while euthanasia was generally favoured by the majority of people in Australia, when it came to a decision from a dying person, they tended not to opt for it. That decision was not made out of fear but was a social decision: they did not want to let go of their relationships and burden other people with responsibilities.

“Sudden deaths are in the minority in Australia. The biggest single cause of death is cancer, followed by heart disease. So most of us do actually have a warning that death is coming closer and we have time to prepare for it,” Dr McNamara said.

She spent many hours in ‘participant observation’, actually working in a hospice, in palliative care and sitting with the families of dying people.

“I found myself in some very confronting situations, like helping to lay out dead bodies,” she said.

“But the experience has made me look at things differently in my own life. And I think that if we can prepare to face death, we can live better lives.”

Dr McNamara is also researching dementia and caring for people suffering from dementia.

“My interest in dementia came from my work in death and dying. It is a type of social death, one that removes you from your normal life and your home, long before you die in a biological sense.”

She said working in the area of death and dying had not been depressing but challenging.

Fragile Lives is written for health professionals, anthropologists and sociologists, and is published in Australia by Allen and Unwin and in the UK by Open University Press.
Retrofitting, recycling and a passionate approach from a small group of staff have meant the University’s energy consumption and greenhouse emissions have both diminished.

“But we could do so much better,” said Gordon Walsh (pictured below), the University’s environmental services manager and the driving force behind most of the energy-saving projects on campus.

“Early this year, John King, Planning and Design’s mechanical officer, won second prize for energy reduction technology from an international energy watchdog. Energy Committee projects on campus reduced greenhouse emissions by more than 400 tonnes in one year, by retrofitting plant and installing thermal sensors so lights are only turned on when they’re needed.

“Several departments are researching sustainable technologies within their disciplines and the cleaners are the backbone of our paper and cardboard recycling program. All provide fine examples of the good environmental work being done here.

But can we improve our efforts and can the University become ‘greener’ through greater emphasis on sustainable development?”

Mr Walsh said such environmental stewardship would ultimately mean a change in values where there was a willingness to be environmentally responsible even when it was not always profitable.

“Happily, positive returns can occur when potential students and staff are lured to our University, partly because of its environmental leadership. “Businesses today value highly a green corporate image knowing customers are becoming more environmentally conscious. But the greatest gains to the University will be the psychological, ethical and spiritual benefits,” Mr Walsh said.

What sustainable development means for UWA

- **Energy and water conservation, waste reduction and recycling**
  - Campus planning and design
    - Preserve and enhance greenspace.
    - Landscape for energy efficiency as well as aesthetics.
    - Subject all renovation and expansion plans to an environmental impact analysis and sustainable design principles.
    - Create a convenient pedestrian, cycling campus.

- **Purchasing and administrative services**
  - Buy office equipment and computers compliant with energy star ratings.
  - Incorporate environmental standards in all contracts for goods and services.
  - Purchase those goods which are durable, recyclable, reusable, non-hazardous and energy efficient.

- **Campus land use**
  - Redefine campus beauty (a beautiful garden does not necessarily have to be a water-guzzling garden).

- **New constructions**
  - Don’t oversize.
  - Design for state-of-the-art energy efficiency, incorporating natural lighting and passive solar energy.
  - Include suitable recycling collection space in building design programs.
  - Specify material and building products that are environmentally friendly to produce and apply.
  - Recycle construction and demolition wastes.

- **Food and food services**
  - Minimise use of disposable dinnerware.
  - Compost food scraps.

- **Investment policies**
  - Establish environmental criteria for financial investment.
  - Use stockholder influence to encourage environmentally responsible business practices.

- **Transportation**

- **Teaching and research**
  - Strengthen and prioritise undergraduate, graduate, postgraduate environmental studies, research, and policies.
  - Develop a program to train faculties to teach environmental literacy to all students.
  - Develop community environmental education programs and participate in public dialogue on environmental issues.
The banksias in Kings Park are dying ... and UWA plant scientist Erik Veneklaas (pictured right) is trying to find out why.

"It’s not only in Kings Park. It seems that banksias have been dying in other urban areas too, for the past few years. But Kingsley Dixon, from Kings Park, asked us if we could look at the problem there.”

The project is returning a favour for Dr Dixon, who has helped Dr Veneklaas and Professor Hans Lambers, the head of the Plant Sciences group, who both came to UWA from Europe a few years ago.

“We both have a general interest in native flora and we have worked quite a lot with Kingsley,” Dr Veneklaas said.

The increased mortality of banksias is important because they largely determine the structure and functioning of the ecosystems of Perth’s bushlands. Banksias are an important source of nectar for our birds.

He said they have one clue to the untimely deaths of the banksias. “The striking thing is that it happens in autumn. It may have something to do with decrease in temperature or it may be that it has more to do with that period just before the first rains being the worst for water availability.”

Dr Veneklaas said it was puzzling because banksias are thought of as drought-tolerant species.

“It has very deep roots to get to the ground water and sustain a good water flow to its foliage. So if the ground-water goes down, it may have a problem. But in Kings Park there is no evidence of that. We believe that other factors are involved, like soil nutrients, that may have affected the ability of banksias to respond to the stresses that it normally copes with very well.”

He is not able yet to guess what proportion of the Kings Park banksias have died.

“We have done measurements on the trees that are obviously suffering and now we are looking at the dead ones, to see if there are links between nutrition and water availability. We can work that out by looking at their growth rings.”

“This should also tell us if the tree was suffering for many years or if its death was abrupt.”

Dr Veneklaas said historical data showed that banksias had been in decline since the 1930s but this situation was different.

“With massive deaths now, it could make it hard for the banksias to re-establish.

“Another potential problem is the foliage from the dead trees, which is making a richer than usual mulch on the forest floor. That could encourage massive weed infestation,” he said.

His initial research has been funded with a bequest to the University which is matched by Kings Park.

... massive deaths now could make it hard for the banksias to re-establish...
UWA’s finance academics have been recognised as some of the most productive in Australia and the Asia-Pacific region.

The prestigious Pacific-Basin Finance Journal has, for the first time, ranked finance departments outside the United States in terms of research papers published.

The finance section of the Department of Accounting and Finance was ranked in the top ten, with the first three places going to Hong Kong universities, followed by the University of Sydney, then two Singapore universities.

UWA comes in at Number 10, above the University of Melbourne, Monash and the University of Hong Kong.

Finance lecturer Dr Robert Durand said the department was number 11 during the early part of the 1990s but had moved up the list to be included in the top ten over the past five years.

“What was most significant was that we were the only Australian university which had improved its rank. We are now third among Australian universities, after Sydney and UNSW,” he said.

Dr Durand said the Pacific-Basin Finance Journal only considered 17 journals in which American academics published.

“So of course this ranking excludes the excellent Australian journals in which our academics are also published. Last year’s review of the department found that we ranked number 1 in publications in Australian and New Zealand journals.”

He said the ranking was for ‘pure’ finance academics only. The publications of the department’s accounting staff or academics in other departments like Mathematics and Statistics who might have published finance papers were not considered.

“The ranking is all the more impressive as we have quite a junior staff. So many of our people get poached and many of them are publishing for those universities that have ranked higher than us!”

Dr Durand said the department had privileged access to excellent data, thanks primarily to their outgoing professor, Philip Brown, and to their affiliations with external institutions.

“Our major fear with the University restructuring is that our access to this data may be affected. We’re in an excellent position to improve our ranking but the competition out there is fierce”, he said.

Eight graduates and two staff at UWA received Queen’s Birthday Honours recently.

Ian Passmore, from the Australian Neuromuscular Research Institute, was on both lists. He is the only graduate who is also a staff member to receive an honour, the Medal of the Order of Australia (OAM), for service to the community.

The other staff member is Emeritus Professor Derek Humpage from the Department of Electrical and Electronic Engineering, who became a Member of the Order of Australia (AM) for service to electronic engineering.

The Order of Australia (AO) went to graduate Professor Allan Fels, the Chair of the Australian Competition and Consumer Commission for his service to Australian competition policy and education in consumer law.

Environmental manager Barry Carbon (services to environmental protection), Dr Richard Davis (service to medical research and education in haematology and malaria), the Reverend Father Mark Raper (service to international humanitarian relief) and Adjunct Professor Bryant Stokes (service to medicine in neurosurgery and development and improvement of health care) were all made Members of the Order of Australia (AM).

Professor Ed Jaggard (service to surf lifesaving and the WA Sports Federation) and Bruce James (service to the community and engineering) were both awarded the Medal of the Order of Australia (OAM).
New scholarships, higher education policy reform and research investment guidelines were among the activities for the first formal year of operation for the Group of Eight (Go8).

It started business on a full-time basis in June last year with the appointment of its first Executive Director, Virginia Walsh, and the establishment of the Group of Eight office in Canberra.

This was followed quickly by the release in late June 2000 of the Go8’s first policy paper, Imperatives and Principles for Policy Reform in Australian Higher Education, as a valuable contribution to the debate on the future directions of higher education.

In December, the Group of Eight released a second policy paper on research and research training, Research and Innovation: Australia’s Future. A major part of it was to quantify the gap in Australia’s R&D performance relative to that of its competitors and the OECD average.

It identified the level of additional investment required to lift Australia’s R&D performance to the 1998 OECD average over five years as $6.75 billion by the Commonwealth Government, $4.2 billion by business and $2.7 billion by non-Commonwealth sources, mainly state governments.

In April, Professor Gavin Brown, Chair of the Go8, presented the Telstra Address to the National Press Club which included the announcement of a Go8 Equity and Merit scholarship scheme. Starting in 2002, the scheme, through 128 scholarships, will provide a greater opportunity for bright students from low socio-economic backgrounds to study at a Group of Eight university, complementing a range of scholarships already provided by the eight universities.

“The fact is that society benefits from the educational investment in many ways and the ideal should be to increase and improve opportunity at all times,” Professor Brown said.

The Go8 is made up of UWA, ANU, University of NSW, University of Qld, Monash, University of Melbourne, Adelaide University and the University of Sydney.

Virginia Walsh, Executive Director, Go8
A bout three years ago I attended a conference on rural and remote education. The conference logo was a silhouetted tree. It was impossible to tell whether the tree was alive or dead. However, as it was clearly growing in a paddock badly affected by salinity, if it wasn’t dead already, it soon would be if something drastic wasn’t done about it. A clever metaphor we all thought. At the end of the conference each participant was given a tiny native tree. We were exhorted to make our trees grow, as a reminder of our commitment to education in regional WA.

As I drove back to Perth, with my little tree seat-belted beside me, my imagination ran riot … a campus tree-planting ceremony, invitations to everyone interested in rural WA, pumpkin scones and lamingtons … The next day I phoned Grounds and babbled on about my tree-planting idea. What sort of a tree is it? they asked gruffly. I don’t know, I said. Some sort of wattle. We don’t need any more acacias, they said. I persisted. It’s too small, they said. It would need watering. I’ll water it, I pleaded, somewhat unrealistically. We’ll get back to you, they said. But they never did.

I got the message, and little-red-hen-like took my tree home to nurture it myself. I gave it a comfy pot and special potting mix, but for about twelve months it did nothing. Then, all of a sudden, it began to send out little shoots. Was there hope for my little tree after all? But then I took leave and went overseas. I didn’t mention the tree to the housesitter, and when I came home it was dead, stone dead. Is this story an allegory I wonder? You may like to ponder it.

My interest in rural and remote education is tied up in my own rural origins, but is professional too. Being responsible for our rural undergraduate equity programme has made me quite passionate about helping rural students to reach their full potential and to achieve their ambitions.

Tertiary education is not an option for most. Usually it boils down to money. Those in agricultural areas simply can’t afford it. Those in the north are beguiled by the high wages offered for unskilled labour in the mining and fishing industries.

Rural schools offer few TEE courses, tertiary-educated role models are in short supply and community attitudes do not always acknowledge the relevance of tertiary education. Is it any wonder, therefore, that this year UWA admitted only 171 first-year students from rural or remote schools?

Identifying rural students who attended metropolitan schools is more difficult, but we can assume about 30. In total, then, very roughly 10 per cent of our school leaver intake, and quite a good result compared to other WA tertiary institutions. But 27 per cent of our population lives outside the metropolitan area, so these figures are just not good enough.

This is not a new issue. It was the subject of the 1994 Tomlinson Review of Schooling in Rural Western Australia, which eventually lead the Minister for Education, in 1997, to set up the Rural and Remote Education Advisory Council.

I represent the tertiary sector on this Council and would be delighted to receive input from UWA staff. The Council quickly realised that educational problems in regional WA cannot be solved in isolation. They are part of a much bigger socio-economic jigsaw, requiring us to work co-operatively with other sectors if we are to achieve any meaningful regional development.

UWA has a fine record of service to regional WA. Space does not permit me to document every current example, but have a think about the many Research Centres and research programmes that benefit rural and remote WA, the work of the Centre for Aboriginal Programmes, the Albany Centre and the residential colleges, the excellent programmes offered by Student Services to assist rural students, the special Medicine and Dentistry recruitment initiatives, the first-year rural scholarships and so on.

We have as much to gain from this involvement as we put in to it. A strong rural sector means a strong State economy, a crucial factor in maintaining a strong university. Having a concern for rural and remote education is just one part of the equation, our part. Things look quite promising at the moment, but we can’t afford to take a holiday, as our slowly growing educational tree will die without us.
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<td>3 x APC Smartups 2000</td>
<td>$200 ono</td>
<td>5-7</td>
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<td><a href="mailto:rcoleman@library.uwa.edu.au">rcoleman@library.uwa.edu.au</a></td>
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<tr>
<td>9 x Digital PC 3000 P166 32MB 2GB</td>
<td>$250 ono</td>
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<td><a href="mailto:rcoleman@library.uwa.edu.au">rcoleman@library.uwa.edu.au</a></td>
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<tr>
<td>1 x Digital PC 3000 P166 16MB 3GB</td>
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<td><a href="mailto:rcoleman@library.uwa.edu.au">rcoleman@library.uwa.edu.au</a></td>
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<tr>
<td>2 x Venturis FX 5133 P133 32MB 1.6GB</td>
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<td><a href="mailto:rcoleman@library.uwa.edu.au">rcoleman@library.uwa.edu.au</a></td>
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<tr>
<td>1 x Venturis FX 5133 P133 24MB 3.2GB</td>
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<td><a href="mailto:rcoleman@library.uwa.edu.au">rcoleman@library.uwa.edu.au</a></td>
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<tr>
<td>1 x Venturis FX2 No CPU No RAM No HDD CDROM No Monitor</td>
<td>Offers 4</td>
<td>2</td>
<td>Russell</td>
<td><a href="mailto:rcoleman@library.uwa.edu.au">rcoleman@library.uwa.edu.au</a></td>
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<tr>
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<tr>
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<td><a href="mailto:rcoleman@library.uwa.edu.au">rcoleman@library.uwa.edu.au</a></td>
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<tr>
<td>10 x Venturis FX5120 P120 16MB 2GB</td>
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<td>Russell</td>
<td><a href="mailto:rcoleman@library.uwa.edu.au">rcoleman@library.uwa.edu.au</a></td>
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<tr>
<td>1 x Venturis FX5120 P120 16MB 3GB</td>
<td>$150 ono</td>
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<td>Russell</td>
<td><a href="mailto:rcoleman@library.uwa.edu.au">rcoleman@library.uwa.edu.au</a></td>
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<tr>
<td>2 x Digital Prioris XL Server P166 96MB 4 x 2 GB HDD RAID Tape CD ROM 15&quot;Monitor</td>
<td>$800 ono</td>
<td>5</td>
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<td>Russell</td>
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<tr>
<td>1 x Digital Prioris XL Server P166 96MB 4 x 2 GB HDD RAID CD ROM 15&quot;Monitor</td>
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<td>Russell</td>
<td><a href="mailto:rcoleman@library.uwa.edu.au">rcoleman@library.uwa.edu.au</a></td>
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<tr>
<td>1 x Digital Prioris XL Server P166 96MB 9.1 GB External HDD CD ROM</td>
<td>$800 ono</td>
<td>5</td>
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<td>Russell</td>
<td><a href="mailto:rcoleman@library.uwa.edu.au">rcoleman@library.uwa.edu.au</a></td>
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<tr>
<td>1 x Venturis FP 5100 P100 No RAM No HDD No Monitor</td>
<td>Offers 5</td>
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<td>Russell</td>
<td><a href="mailto:rcoleman@library.uwa.edu.au">rcoleman@library.uwa.edu.au</a></td>
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<tr>
<td>1 x Venturis FP 5100 P100 16MB 800MB 15&quot;Monitor</td>
<td>$100 ono</td>
<td>5</td>
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<td>Russell</td>
<td><a href="mailto:rcoleman@library.uwa.edu.au">rcoleman@library.uwa.edu.au</a></td>
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<tr>
<td>2 x Digital PC 3000 No CPU No RAM No HDD No Monitor</td>
<td>Offers 3</td>
<td>3</td>
<td>Russell</td>
<td><a href="mailto:rcoleman@library.uwa.edu.au">rcoleman@library.uwa.edu.au</a></td>
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<tr>
<td>1 x HP Laserjet 4M Plus</td>
<td>$200 ono</td>
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<td>Russell</td>
<td><a href="mailto:rcoleman@library.uwa.edu.au">rcoleman@library.uwa.edu.au</a></td>
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<tr>
<td>1 x HP Laserjet 4 Plus</td>
<td>$200 ono</td>
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<td><a href="mailto:rcoleman@library.uwa.edu.au">rcoleman@library.uwa.edu.au</a></td>
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<tr>
<td>1 x HP Deskjet 500</td>
<td>$40 ono</td>
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<td>2-3</td>
<td>Russell</td>
<td><a href="mailto:rcoleman@library.uwa.edu.au">rcoleman@library.uwa.edu.au</a></td>
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<tr>
<td>4 x HP Deskjet 400</td>
<td>$40 ono</td>
<td>5</td>
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<td>Russell</td>
<td><a href="mailto:rcoleman@library.uwa.edu.au">rcoleman@library.uwa.edu.au</a></td>
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<tr>
<td>1 x HP Deskjet 660C</td>
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<td>5</td>
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<td>Russell</td>
<td><a href="mailto:rcoleman@library.uwa.edu.au">rcoleman@library.uwa.edu.au</a></td>
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<tr>
<td>1 x Macintosh Quadra 800</td>
<td>Offers 7</td>
<td>2-3</td>
<td>Russell</td>
<td><a href="mailto:rcoleman@library.uwa.edu.au">rcoleman@library.uwa.edu.au</a></td>
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<tr>
<td>1 x OKI Microline Dot matrix printer</td>
<td>Offers 8</td>
<td>2</td>
<td>Russell</td>
<td><a href="mailto:rcoleman@library.uwa.edu.au">rcoleman@library.uwa.edu.au</a></td>
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<tr>
<td>4 x Panasonic PX-2180 Dot matrix printer</td>
<td>$20 ono</td>
<td>6-8</td>
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<td>Russell</td>
<td><a href="mailto:rcoleman@library.uwa.edu.au">rcoleman@library.uwa.edu.au</a></td>
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<tr>
<td>7 x Panasonic PX-2135 Dot Matrix printer</td>
<td>$20 ono</td>
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<td>Russell</td>
<td><a href="mailto:rcoleman@library.uwa.edu.au">rcoleman@library.uwa.edu.au</a></td>
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<tr>
<td>3 x Kalpana PsP 16-M042 Ethernet Switch with 6 port FL Modules</td>
<td>$1400 ono</td>
<td>5</td>
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<td>Russell</td>
<td><a href="mailto:rcoleman@library.uwa.edu.au">rcoleman@library.uwa.edu.au</a></td>
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<tr>
<td>6 x CISCO 2514 Router</td>
<td>$310 ono</td>
<td>5</td>
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<td><a href="mailto:rcoleman@library.uwa.edu.au">rcoleman@library.uwa.edu.au</a></td>
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<tr>
<td>2 x Bay networks Distributed 5000 12 Ports</td>
<td>$800 ono</td>
<td>5</td>
<td>2</td>
<td>Russell</td>
<td><a href="mailto:rcoleman@library.uwa.edu.au">rcoleman@library.uwa.edu.au</a></td>
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<tr>
<td>5 x Bay networks Distributed 5000 36 Ports</td>
<td>$800 ono</td>
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<td>Russell</td>
<td><a href="mailto:rcoleman@library.uwa.edu.au">rcoleman@library.uwa.edu.au</a></td>
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<tr>
<td>1 x Xylogics Annex3 Terminal server</td>
<td>$1100 ono</td>
<td>6</td>
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<td>Russell</td>
<td><a href="mailto:rcoleman@library.uwa.edu.au">rcoleman@library.uwa.edu.au</a></td>
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<tr>
<td>3 x Synoptics 2803 Hub</td>
<td>$90 ono</td>
<td>8</td>
<td>2</td>
<td>Russell</td>
<td><a href="mailto:rcoleman@library.uwa.edu.au">rcoleman@library.uwa.edu.au</a></td>
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<tr>
<td>5 x Synoptics 2813 Hub</td>
<td>$90 ono</td>
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<tr>
<td>1 x Cisco CD ROM Tower</td>
<td>Offers 5</td>
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<td>Russell</td>
<td><a href="mailto:rcoleman@library.uwa.edu.au">rcoleman@library.uwa.edu.au</a></td>
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<tr>
<td>1 x Yamaha CD Writer 2 x Write 4 x Read</td>
<td>Offers 5</td>
<td>2</td>
<td>Russell</td>
<td><a href="mailto:rcoleman@library.uwa.edu.au">rcoleman@library.uwa.edu.au</a></td>
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<tr>
<td>6 x SUN CDROM Drives</td>
<td>Offers 7</td>
<td>2</td>
<td>Russell</td>
<td><a href="mailto:rcoleman@library.uwa.edu.au">rcoleman@library.uwa.edu.au</a></td>
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<tr>
<td>1 x SUN 2GB Disk Pack</td>
<td>Offers 6</td>
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<td>Russell</td>
<td><a href="mailto:rcoleman@library.uwa.edu.au">rcoleman@library.uwa.edu.au</a></td>
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<tr>
<td>2 x SUN 4GB Disk Pack</td>
<td>Offers 3-5</td>
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<td>Russell</td>
<td><a href="mailto:rcoleman@library.uwa.edu.au">rcoleman@library.uwa.edu.au</a></td>
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<tr>
<td>2 x SUN 4GB MultiDisk Tower</td>
<td>Offers 7</td>
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<td>Russell</td>
<td><a href="mailto:rcoleman@library.uwa.edu.au">rcoleman@library.uwa.edu.au</a></td>
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<tr>
<td>2 x SUN 8GB MultiDisk Tower</td>
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<td>Russell</td>
<td><a href="mailto:rcoleman@library.uwa.edu.au">rcoleman@library.uwa.edu.au</a></td>
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<tr>
<td>2 x SUN 16GB MultiDisk Tower</td>
<td>Offers 5</td>
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<td>Russell</td>
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<tr>
<td>1 x SUN 24GB MultiDisk Tower</td>
<td>Offers 4</td>
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<td>Russell</td>
<td><a href="mailto:rcoleman@library.uwa.edu.au">rcoleman@library.uwa.edu.au</a></td>
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<tr>
<td>1 x SUN SPARC Server 5</td>
<td>Offers 6</td>
<td>2</td>
<td>Russell</td>
<td><a href="mailto:rcoleman@library.uwa.edu.au">rcoleman@library.uwa.edu.au</a></td>
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<td>Offers 6</td>
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<td>Russell</td>
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<tr>
<td>2 x SUN SPARC Server 20</td>
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</table>

**Redundant Equipment for Sale**

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

**Bids should be accepted by Monday 30 July with departments to have first option.**
Monday 23 July
BOTANY SEMINAR
'Molecular phylogenetic perspectives on the origins of extraordinary plant bio-diversity in southern Africa and southwest Australia', Dr Steve Hopper, Director, Kings Park and Botanic Garden. 4pm, Seminar Room (Room 2.14, second floor).

Tuesday 24 July
LWAG TUESDAYS LIVE
Presented in association with the Department of Geology and Geophysics and the E. de C. Clarke Geology Museum, GeoImages is a collection of photograph studies on the theme of geology. 1pm, LWAG.

Wednesday 25 July
PATHOLOGY SEMINAR
'Laser microdissection in research', Dr Kathy Heel, Pathology and Surgery. 4.30pm, Pathology Conference Room, G14, Ground Floor, M Block, QEIMC.

Saturday 28 July
ADESTE HUMANIORES SEMINAR
'The death of Socrates: a dramatised view of the last days of this extraordinary man.' 2pm, Murdoch Lecture Theatre, Arts Building. Cost: $10, afternoon tea included.

Sunday 29 July
KEYED UP! SOLO PIANO RECITAL SERIES
'Direct from Europe, international prize-winning Australian pianist Duncan Gifford performs brilliant Spanish and Russian repertoire. 5pm, Octagon Theatre.

Tuesday 31 July
LWAG TUESDAYS LIVE
Neville Weston on Australian landscape. Neville Weston, an artist and recently the Head of the School of Art at ECU, will reflect on ideas of landscape in Australian art and culture. 1pm, LWAG.

AUGUST EVENTS
Wednesday 1 August
SOIREE MUSICALE
The Friends of the University of Western Australia Library present a Soirée Musciale on Wednesday 1 August at 7.30pm. Entertainment will be provided by Taryn Fiebig (chanteuse), Paul Wright (violin), Suzanne Wijisman (violinecette) and Graeme Gilling (pianoforte). Supper will be provided. Tickets $38.50 per person. Contact Liz Tait on 9380 2356 for details.

ARCMCE SEMINAR
'Genomics', A/Prof Matthew Bellgard, Murdoch University. 5.15pm, Billings Room, Electrical and Electronic Engineering Building.

Thursday 2 August
CLASSICAL ASSOCIATION OF WA LECTURE
'Warwick Ball, The Temple at Baalbek: its near eastern architectural, religious and historical setting (illustrated).' 12 noon, Fox Lecture Theatre. Free and open to the public.

UWA Olive Events
July 2001

Artificial Neural Networks Workshop — Identifying Olive (Olea Europaea) Cultivars
Presenters: Drs Stefano Mancuso and Francesco Paolo Nicese (Dipartimento di Ortofiorofrutticultra, University of Florence, Italy); Mr Luigi Bazzani, (Olea Nurseries, Western Australia); and Professor Stan Kalis, UWA

University House, Crawley
9am to 4pm
Tuesday 17th July 2001

Cost: $50 includes refreshments, notes and lunch
Who should come: Persons interested in plant morphology, plant variety identification and/or the application of Artificial Neural Networks; postgraduate and research students; academic and research scientists; as well as those involved in the olive industry. This workshop is jointly sponsored by Olea Nurseries, Manjimup WA and UWA.

The 3 Pillars of Mediterranean Cuisine — Bread, Wine and Olive Oil
Presenters: Abbot Placid Spearritt (Benedictine, Community New Norcia), Professor Mark Valiquet (Monash University, Vic.), Mr Kingsley Sullivan (New Norcia Bakeries), Mr Peter Forrestal (Founding Editor, Wine Magazine) and Professor Stan Kalis (UWA).

New Norcia Mission, WA
8.30am to 5pm
Saturday July 21 2001

Cost: $165 (GST included) includes refreshments, notes and lunch
Who should come: All who enjoy or work with food, wine and olive oil.

The Second UWA Olive Oil Tasters School July 2001
Presenters: Dr Luciano Giovacino (Istituto Sperimentale Eliaotecnica, Pescara, Italy); and Professor Stan Kalis (UWA).

University House, Crawley
3 days
Wednesday 25 to Friday 27 July

Cost: $450 includes refreshments, notes, lunches and refreshments
Who should come: All who work with food and olive oil; olive growers; processors, marketers and traders of olive oil; persons considering becoming members of olive oil tasting panels; food industry personnel; and those interested in edible oil quality.

To book or for more information
contact Professor Stan Kalis, Department of Plant Sciences, Faculty of Agriculture
Tel: 9380 1644
Fax: 9380 1108
Email: skallis@agric.uwa.edu.au

At the Undercroft, Winthrop Hall
BOOK SALE TIMES
Friday 27 July: 6pm to 9.30pm
Saturday 28 July: 9.30am to 5pm
Sunday 29 July: 9.30am to 5pm
Monday 30 July: 9.30am to 7.30pm
Tuesday 31 July: 9.30am to 7.30pm
Wednesday 1 August: 9.30am to 2pm

Thousands of books covering a myriad of topics will be sold at bargain prices. Records, videos, tapes, CDs and sheet music will also be available.

Call 9440 6411 for additional information.

MEMORY EXPERIMENT
If you are a right-handed female aged between 17 and 30 we need your help
The Brain and Memory lab in the Department of Psychology is cur-rently conducting research into the neural basis of different levels of memory performance in the healthy population.
The study will take place in three phases. We are currently recruiting for the first phase and require right-handed females aged 17 to 30 years with no history of head injury or serious memory impairment.
The sessions will take approximately two hours. Participants will be paid a honorarium of $10.

If you are interested or would like some more information, please contact Fiona Michel on 9380 7190 or by email on fiona@psy.uwa.edu.au
HELP NEEDED

As the nights are very cold now and more and more refugees are being sent down to us from up north, we are in DESPERATE NEED OF BLANKETS.

All suppliers are out of stock now. Has anyone any blankets, doonas, pillows to make these people a little more comfortable? Also we are always in great need of pots, pans, cutlery, crockery, brooms and also baby furniture, baby and children’s clothes and toys. We are getting quite a few families now with young children who have no toys at all. Can anyone help please. If you have none of these items, but would like to make a donation so that we can purchase them, please email me. Our Warehouse is at Unit 3, 5 Pearson Way, Osborne Park if you drop any goods off there, but you must ring Mr Lee Brown first on 9446 5169 so he can meet you to the warehouse. If this is too difficult let me know and will try and arrange something. Thank you once again. Fay Stewart (ext. 3061)

DIVERSITY INITIATIVES FUND 2001
formerly called Equity Initiatives Fund

The University of Western Australia’s Diversity Initiatives Fund has been established to encourage faculties/ departments/units to develop targeted diversity initiatives that enhance equity for students and staff. The emphasis is on educational and employment access, participation and outcomes for groups of students and staff identified as priority areas in the University’s Equity Plan and Equal Employment Opportunity Yearly Report.

The priority areas include:
- Students from low socio-economic backgrounds;
- Staff and students from culturally diverse backgrounds;
- Indigenous staff and students;
- Women students at both undergraduate and postgraduate levels in areas where they are under-represented;
- Staff and students with disabilities.

The University anticipates funding four to six initiatives. Funds will be provided for one year only. Applicants are encouraged to seek co-funding from departmental or other sources. The budget for the Diversity Initiatives Fund for 2001 is $11,500. We are now calling for expressions of interest for the above programme. Applications can be obtained by visiting the Equity Office web page: http://www.acs.uwa.edu.au/hrs/equity or by contacting Linda McCann on ext. 3873. Expressions of interest should be addressed to Professor Alan Robson, Chair, Equal Opportunity Advisory Committee, c/o Equity Office, by 3 August 2001.

For further information contact Malcolm Fialho on ext. 2252 at the Equity office.

UNIVERSITY LODGE
An esteemed Freemason’s Lodge in WA Est. 1932
(Nedlands Park Masonic Hall, Broadway, Nedlands)

This Lodge was founded on a membership of University staff and grads. They continue as majority numbers in our Lodge, though others can do also apply.

If you would like further information, or to talk to or meet with us or fellow colleagues, please contact our Secretary, Arnold Potts: Phone: 9385 9322; Email: PABpotts@aol.com.au

SECRETARIAT NAME CHANGE

The Registrar has approved a change of name for one of the Directorates in his Office and a change of title for its Director.

The former Secretariat Services is now University Secretariat, and its Director’s title is University Secretary.

These changes are consistent with usage in many other universities not only in WA but also in Australia and overseas, and should be more readily understood across the institution than the former names.

CENTRE FOR STAFF DEVELOPMENT
Programme for Second Semester 2001

The Staff Development Programme for second semester 2001 is now available. A flyer listing staff development activities will be sent to all staff members shortly and information is available on the Web at http://www.csd.uwa.edu.au/programme/.

Staff Orientation Programme: Welcome to UWA

An orientation morning to welcome new staff to the University will be held on Thursday 19 July 2001. An ‘All-Staff’ email has been sent inviting new staff to attend. Existing staff members who would like a broad overview of the University are also most welcome to attend. For further details contact CSD on ext. 1504 or csdoffice@csd.uwa.edu.au as soon as possible.

What’s on Next

Places are available in the following workshop due to close within the next month. Further details are available on the CSD Web page: http://www.csd.uwa.edu.au/programme/ or by contacting CSD on ext. 1504 or csdoffice@csd.uwa.edu.au.

- Introduction to Management
- Staff Selection for Chairs of Academic and General Panels
- Staff Selection for Chairs of General Panels
- Staff Selection Skills for Panel Members
- Career Opportunities for General Staff
- Preparing to Apply for Academic Staff Promotion
- Applying for an Internal Position: Practice in Facing Selection Panels

UWA Staff and Graduates are invited to join the Spare Tickets Club for the best on-line ticket prices.

Visit us today: www.sparetickets.com.au
Redundant Equipment for Sale

TO LET

LARGE FURNISHED STUDIO ROOM at rear of character home in quiet street available for visiting academics or students. Includes lounge, television and basic kitchen facilities, as well as use of shared house. Rear entrance. Located in Mosman Park, 6 minutes walk from the river, parklands and look out area. Bus to University at end of street (or lifts with owner). Internet access available. $140 per week. Please contact Cara at cara@cs.uwa.edu.au or 9380 3453.

BRICK AND TILE TOWNHOUSE, fully furnished executive style accommodation, one street block from PMH and ICHR, 3 bedrooms, 2 bathrooms, 3 toilets. $340 pw. Available now. 6 to 12 month lease with possible extension. Call 6380 2825 or 0409 844 201.

FOUR-BEDROOM FULLY EQUIPPED RESIDENCE IN NEDLANDS on a quiet street within walking distance to shopping centre, schools and UWA is available for renting, preferably by visiting academics, between the period of 15 September 2001 to 15 January 2002. The house features full air-conditioning for all rooms, security system, automatically reticulated gardens, a full backyard with children playing facilities, and a full range of household electronics. Interested parties may contact 0410 512 697 for more information.

WANTED TO RENT

VISITING ACADEMIC from the University of Utah is visiting Perth in late July/early August and will be staying in Perth until January and is seeking an opportunity to house sit. Happy to house sit for part, or the whole, time of their visit. Contact Krzyz on 9480 3614 or fax on 9480 3641.

ROOM WANTED URGENTLY in shared house situation for female, non-smoking, German PhD student for Oct/Nov/Dec. Please contact Dan Daley on ext 1749, or email ddaley@cyllene.uwa.edu.au.

APARTMENT WANTED for visiting academic and family from (approximately) 10 September to 12 December 2001. A 2 to 3 bedroom furnished apartment required, preferably close to University or on a direct bus route. Please call Noelene at Geology and Geophysics on ext. 3532 or email nkeys@geol.uwa.edu.au.

ITEM PRICE AGE COND. NAME CONTACT
1 x SUN SPARC Server 10 Offers 8 2 Russell rcoleman@library.uwa.edu.au
2 x SUN 4mm Dat Tape Drive Offers 7 2 Russell rcoleman@library.uwa.edu.au
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1 x SUN QIC 150 Tape Drive Offers 6 2 Russell rcoleman@library.uwa.edu.au
1 x ETHER-R4 Network Repeater Offers 6 2 Russell rcoleman@library.uwa.edu.au
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1 x 17" Phillips Monitor Offers 5 2 Russell rcoleman@library.uwa.edu.au
1 x Epson LX-850 Offers — 2-3 Russell rcoleman@library.uwa.edu.au
1 x Canon BJ-300 Offers — 2-3 Russell rcoleman@library.uwa.edu.au
1 x Kodak DC200 Digital Camera $150 ono 3 2 Russell rcoleman@library.uwa.edu.au
1 x ASK Projection Panel Offers 6 2 Russell rcoleman@library.uwa.edu.au
2 x Network Repeater Magnum 3000X Offers 7-8 2 Russell rcoleman@library.uwa.edu.au
Mac Powerbook 540C Offers 7 4 Xahlia 2937
Apple Stylewriter II printer Offers 7 4 Xahlia 2937
NEC 12" monitor Offers — 4 Xahlia 2937
Macintosh LC + monitor etc. Offers 10 4 Xahlia 2937
Macintosh LC+ monitor Offers — 4 Xahlia 2937
Computer Comdek 400/128/6.4Gb Rom/Zip $600 2.25 2 Glennys 2920
Computer Comdek 400/64/4.3Gb Rom/Zip $550 3.5 2 Glennys 2920
Computer Comdek 350/64/4Gb Rom/Zip $400 3.75 2 Glennys 2920
Computer Comdek 266/64/2Gb Rom/Zip $300 3 2 Glennys 2920
Computer Comdek 180/16/3Gb Rom $150 4.5 2 Glennys 2920
Printer Canon BubbleJet Colour BJC610 $75 4 2 Glennys 2920
Printer HP Laserjet 5M $800 5.5 2 Glennys 2920
Printer Apple LaserWriter 16/600 $275 6 2 Glennys 2920
Pentium 133, 32MB RAM, 1.0GB Hard drive $220 — — Mark 1405
14" Monitor, Sound Card, Network Card, NO OPERATING SYSTEM
Pentium 133, 32MB RAM, 1.0GB Hard drive $180 — — Mark 1405
14" Monitor, Sound Card, NO OPERATING SYSTEM
Power Macintosh 7200/75 64MB $300 ono — — Mark 1405
1.96Gb Hard drive, 15" Monitor, Apple ColorOne Scanner MacOS 8 & 6
Bindomatic 5000 Thermal binding unit, large amount of cover stock included $500 4 2 Tim tstewart@library.uwa.edu.au

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

Bids should be accepted by Monday 30 July with departments to have first option

Departments 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.

CONTRACTS

WATER AND RIVERS COMMISSION


NHMRC

Dr P. Norman, Surgery, Prof L. Flicker and A/Prof G. Hanley, Medicine and Prof K. Jamrozik, Public Health: ‘Pert’s Elderly Cohort Study’ — $885,000 (2001-03).

SMITH AND NEPHEW

