The international strategic studies community recently requested input from Dr Samina Yasmeen at two top-level arms conferences in the United States.

A Senior Lecturer in Political Science, Dr Yasmeen is a respected international political analyst, with particular interest and expertise in southern Asia.

“I have to be careful that my Pakistani background is not reflected in my work, however it certainly helps to have an understanding of the culture of the region,” Dr Yasmeen said.

She was invited to speak at two conferences on arms control this year: the first was organised by the Sandia National Laboratories in April and other participants included John Holum, a US adviser on arms control, Rolf Ekeus, former head of the US Special Commission on Iraq (UNSCOM), and senior officials from more than 30 countries.

She was asked to present a paper on the implications of Pakistan’s nuclear bomb for the Middle East. Her second invitation was to a conference organised by the Defense Threat Reduction Agency of the US Department of Defense in June. Dr Yasmeen was asked to look at various issues related to the Nuclear Non-Proliferation Treaty Review Conference, which had finished a week earlier.

“On my panel was the Chairman of the Review Conference with the final document in his briefcase... before it was released to the world!” Dr Yasmeen said.

“At this conference I talked about the linkage between the Non Proliferation Treaty (NPT) and the nuclear developments in south Asia and how the review conferences in future need to appreciate the political and social context in which the Indian and Pakistani nuclear programs exist,” she said.

Dr Yasmeen said that although India had had a nuclear capability since 1974 and Pakistan since the mid-1980s, she did not think it likely that either nation would engage in a nuclear war with the other.

“There have been hostilities between the two countries for more than 50 years and the dominant view is that they will fight again and that next time, it could escalate into a nuclear war.” (Both countries tested nuclear weapons in May 1998.) “But I don’t think so. I don’t think people take into account the rationality of the countries’ leaders.

Continued on page 4
Is there life after the Olympics?

My breakfast radio this morning informed me that we have a new national anxiety. Beyond the consequences of a falling dollar, there is now apparently the fear of post-Olympic malaise. Counsellors are ready to assist.

The analysis and commentary on the 2000 Olympics will no doubt continue for some time, maybe until the Athens Games.

But for me the most pungent comment came in a shrewd article by Greg Sheridan, foreign editor of The Australian: “We decisively won the Olympics”, he wrote on 6 October, “let’s not lose their aftermath”.

The Olympics flattered us as a “smart nation”. We radiated not just good humour and a self-assured postcolonial strut, but we appeared to be a technologically sophisticated nation, more ‘new economy’ than ‘old economy’.

But interestingly, and usefully, the very Olympic success also promoted the most significant discussion I can recall on those very questions of technology, innovation and the ‘knowledge nation’.

Partly this debate has been driven by general issues surrounding our economy, the fate of the dollar, and the broad impact of the competitive forces of globalisation.

But, more specifically, it has reflected an agenda about public policy that has been spurred on by a variety of major reports and statements — ranging from the outcomes of the Innovation Summit (convened by the Business Council of Australia and the Minister of Science), through to the almost concurrent Report by the Chief Scientist, “A Chance for Change”, a document now much discussed on campus.

There have also been very useful interventions in the public debate by the Business Higher Education Round Table, our own AVCC, the Learned Academies and various professional bodies.

Indeed, the Presidents of that last cluster of organisations recently published a statement, close to a declaration, that called on Government to commit itself to major investment in research, R & D, innovation, and broadly in the knowledge sectors of Australia.

Editorials and articles in the press have fascinatingly been headed, “Our scientists deserve a sporting chance”, and “Old economy leaders must get new ideas”. And the Prime Minister’s Prize for Science Awards led to the pithy comment that Australia now needed to “apply the Olympic formula to research and development”. The new nation slogan should be: “Get behind winners and you get results”.

A remarkable alignment of eminent scientists, business people and educators all agreed that getting behind leaders and creators in science and technology could well produce great results — more intellectual capital, more innovation, more jobs, more prosperity and more opportunity for all Australians to enjoy a quality way of life.

Yet none of this will ‘just happen’. Growing levels of investment in R & D by many of Australia’s competitor nations has thrown down a challenge — to increase public and private sector investment in a broadly defined research and knowledge base, or be marginalised within the global knowledge revolution.

As Western Australia’s flagship university we are doing our utmost to further that development.

Our strategies, budgets and external policies all work to lead, facilitate and enhance that “knowledge revolution”. From the recent draft Academic Profile to our new industry and international initiatives, UWA is taking up the challenge. At the level of particular initiatives, good things are also happening.

It has recently given me great encouragement and pleasure to be involved in events which symbolised such UWA actions:

- the opening of the world class Laser Microdissection Facility, and the remarkable new Scanning Electron Microscope, in the Faculty of Medicine and Dentistry;
- the Science breakfast for the faculty, industry and government, opened by the Deputy Premier, and which focused on enhancing the science base in our schools;
- the Institute of Advanced Studies and Raine Foundation Lecture, given in honour of Professor Ian Constable (of the Lions’ Eye Institute) by Professor Joseph Vacanti (Harvard) on biomedical engineering;
- and the recent Spring Graduations which included 74 doctoral awards, many in these very areas of new knowledge.

There is plenty of life after the Olympics — if only we can as a nation support our researchers as we did our sports people.

Professor Deryck Schreuder
Vice-Chancellor and President
vc@acs.uwa.edu.au
From the air, archaeologists can see features that might not be visible or immediately recognisable or intelligible on the ground.

An aerial view can reveal hitherto unnoticed clues — a pattern of darker vegetation suggesting something lying underneath it, the faint geometric outlines of a Roman fort, mounds hinting at an ancient burial ground, or traces of ancient terraces where olives and vines once flourished.

Not only does the aerial perspective help archaeologists to find new sites, it is invaluable for mapping them and providing clues to the layout of towns, villages, farms and geographical features in the larger landscape.

All of which explains why archaeologist Professor David Kennedy has been basing his studies of the ancient landscape of Jordan on a combination of aerial and ground work: “The idea is to get the two to mesh together.”

Recently returned from his fourth consecutive season in the Middle East, Professor Kennedy is in the fortunate position of being allowed to study Jordan from an aircraft. Although the region was regularly explored by air between the two World Wars, it has been off-limits since then. “It is very unusual to be able to fly in the Middle East. In fact, we are doing the only systematic flying that has been allowed there in the last half century.”

His work, which was originally supported by the late King Hussein’s brother, the Crown Prince, today also has the patronage of his nephew, the present king’s brother, Prince Feisal, a high-ranking airforce officer. Professor Kennedy works in partnership with Dr Bob Bewley, head of aerial photography for English Heritage, the organisation responsible for public archaeology in Britain. Together they conduct aerial surveys in helicopters and aircraft piloted by members of the Jordanian Air Force.

During September this year, their focus was the region surrounding the old Roman city of Jerash, a metropolis that once boasted a 900-metre colonnaded road, three theatres, a circus, and colossal temples. Although the town of Jerash has been excavated continually since 1921, there is still a huge amount of work to be done, especially in the outlying areas.

“We were looking at the territory around it, as most people lived outside the city on farms or in villages. We also wanted to find out how the city integrated with the villages, farms, quarries, and road network,” said Professor Kennedy.

This time their aerial perspective revealed an ancient road station and a vast network of little local roads meandering over the hills. The roads, which had been laid out long before the Graeco-Roman city — probably as early as the Bronze Age — were bordered by stones, but were not readily apparent on the ground.

There is a degree of urgency to the current studies. Huge population growth in recent years, and changing agricultural practices, means that landscapes that have not been altered for hundreds of years are suddenly being bulldozed to make way for roads, fields, and new homes for people moving out of nearby Amman.

“It is very important for us to work in areas like this while we can,” Professor Kennedy emphasised, “as it could all be gone completely in a few years.”

As aerial surveys demand intense concentration from the archaeologists, flights last no longer than three hours at a time, during which hundreds of photographs will be taken. Professor Kennedy has amassed a library of some 4000 slides, along with black-and-white and colour prints, and digital images. On his recent expedition, he also took infrared photographs, which enhance vegetation markings and sometimes provide clues to new sites.

Conscious of its vast archaeological heritage the Jordanian Government, in the form of the Department of Antiquities, is very supportive of his work, and has always welcomed foreign archaeologists as the country lacks the human resources and skills to do the work.

Next year, Professor Kennedy plans to return to Jordan to continue his work around Jerash, as well as in the biblical region of Moab, south of Amman, and around the fabled city of Petra where three international teams are currently at work.
UWA lecturer co-stars in new film

It's an entirely new role for Senior Lecturer in Landscape Architecture Christopher Vernon — appearing in a film soon to be released on ABC TV and video.

In City of Dreams, made by Film Australia, he appears as one of three authorities providing expertise on the life and work of landscape architect Walter Burley Griffin and his architect wife Marion Mahony Griffin.

The marriage of Walter Burley Griffin (pictured) to the brilliant, feisty Marion Mahony, the first registered woman architect in the world and long-serving designer in Frank Lloyd Wright’s practice, marked the beginning of one of the most remarkable artistic partnerships of the 20th century — a collaboration remembered in the design for the city of Canberra.

The Griffins came to Australia in 1914 following their success in winning the international design competition for the new capital city. But bureaucracy was alive and well long before Canberra became a reality, and although Walter Burley Griffin fought a courageous battle against the petty bureaucrats determined to destroy his vision, it was never realised in the final design, which Christopher Vernon describes as a skeleton of the original concept.

The Griffins stayed on in Australia, winning major design commissions and establishing a unique community at Castlecrag, now a suburb of Sydney. City of Dreams traces their unconventional careers, their holistic approach to architecture and life, and their impact on Australian culture.

There is also a UWA link in their story: in 1914, Walter Burley Griffin entered — but failed to win — a design competition for the campus of the University. Years later, he visited Fremantle en route to India, where he died in 1937 following a fall from scaffolding.

“It was good to have the chance to wave the UWA flag in a national project,” said Mr Vernon, who has made a comprehensive study of the pair, and is currently writing a book on their life and work for the University of Chicago Press.

City of Dreams is set to go to air in early 2001.

Continued from page 1

UWA expertise sought on arms control

“India says they won’t be the first to use a nuclear weapon against its neighbour and Pakistan says it has nuclear weapons to balance India’s capability. And, although neither of them will sign the NPT, neither has yet talked about really using their nuclear weapons.

“The hostilities over Kargil in Kashmir last year was the first time tensions really rose to a dangerous level since they tested their nuclear weapons. But both sides demonstrated caution and the conflict did not escalate even to a major conventional war.

“That they didn’t use or threaten to use nuclear weapons is a very good sign,” Dr Yasmeen says both countries realise that any nuclear fallout would have a hugely adverse affect on their populations as well.

How does the rest of the world ensure that they stay rational? Planning in advance to reduce unintentional nuclear weapons through a mixture of economic and political means is her answer. On the top of the list is the need to help Pakistan’s (bankrupt) economy.

“Nearly 40 per cent of Pakistanis are under the age of 20. They want jobs. If the international community doesn’t assist Pakistan economically to create jobs for these young people, their anger could become dangerous. Frequent change of regimes may be the next stage of political developments. This may result in Islamic fundamentalists coming to power. A combination of Islamic fundamentalism and nuclear weapons is lethal.”

Dr Yasmeen said she felt she owed a lot to her teachers at the ANU, who taught her so much about strategy and looking at information objectively. “My PhD supervisor, Mr Geoffrey Jukes, beat the pro-Pakistani point of view out of me!” she said.

She said the best thing the Indians and Pakistanis could do for themselves to prevent nuclear war over Kashmir was to stop incessantly raising the issue.

“Talking publicly about the situation inflames the many uneducated people, who pick up the propaganda. They should get away from public diplomacy and find more acceptable solutions away from the public limelight. The rest of the world should come up with ideas on how the dispute can be settled,” she said.

Dr Yasmeen is organising a half-day seminar, ‘Pakistan Through the Looking Glass’, at which distinguished Pakistani and Australian speakers will be talking about the country. The seminar is to be held at the Lawrence Wilson Art Gallery on Friday October 13 from 4 to 7pm.
When artists and physicists put their heads together . . .

As a sculptor, you've been asked to produce a work on the theme of ‘gravity’. Where does your imagination lead — to black holes, gravity waves, tides, or the outer reaches of the universe?

Eight Western Australian artists and a UWA physicist have been working together to produce an artist's perspective on the concept of gravity. ‘Gravitate’, the new exhibition at the Lawrence Wilson Art Gallery, is the product of that collaboration.

On display are sculptures and other objects that will eventually become part of an exhibition at UWA’s planned Gravity Discovery Centre. To be located at the Australian International Gravitational Observatory (AIGO) near Gingin, the centre will feature a host of attractions including computer animations, posters, scale models and videos.

‘Gravitate’ offers a preview of the kind of ideas that will be explored at the discovery centre, which will use art, sculpture, advanced technology and multimedia presentations to pose the big questions of science and the universe. How old is the universe? How big is it? And where did it come from?

In their exhibits, artists Mark Grey-Smith, Colin Langridge, Alan Clark, Philip Gamblen, Sam Collins, Michelle Theunissen and Jon Tarry, and physicist Professor David Blair, offer their own unique ideas about the forces of gravity. Michelle Theunissen uses a slow motion film of a girl’s body bumbling through space against a background of objects representing the gravitational pull of planets, Mark Grey-Smith ponders on the nature of black holes, and Alan Clark tunes in to the music of the spheres.

‘Gravitate’ is on view until October 27.

Dr Kadambot Siddique, a grain crops researcher with wide international experience has been appointed Adjunct Professor with the Faculty of Agriculture.

Dr Siddique (pictured) is the Western Regional panel member of the Grains Research and Development Corporation (GRDC). As Principal Agronomist/Physiologist and Manager of Pulse Productivity and Industry Development at AGWEST, he represents the interests of WA graingrowers on four GRDC sub-programs at national level.

He has had extensive experience on a number of overseas projects in India, Pakistan, Bangladesh, Nepal, Syria and Turkey, and his appointment has been welcomed by the GRDC Western Regional Panel chairman and Hyden farmer Dale Baker who describes Dr Siddique’s enthusiasm and passion for research and industry development on grain crops as ‘refreshing and inspiring’.

And said he had done more than anyone to help establish a commercially viable broad-acre pulse industry in WA.

"His understanding of marketing issues and product development, coupled with the obvious quality of his scientific work, make him an ideal role model for undergraduate and postgraduate students."
A’s Great Southern wine region has grown rapidly during the last decade, and needs to expand even more to capitalise on export demand.

But local vignerons are worried that development will be hampered by a lack of infrastructure and the encroaching demands of fast-growing industries like the timber industry, which is impinging on prime viticulture soil.

Geography honours student Megan Farrelly has been looking at the needs of vignerons on behalf of the Great Southern Development Commission, and bringing those needs together in an environmental framework.

Problems range from aerial spraying of timber, which poses a danger to vines, and threatens the integrity of organic vineyards. The timber industry has high labour needs, leaving vignerons short of labour, and plantations provide habitats for birds and kangaroos, which can wreak havoc on vines. It impacts on tourism too, because a plantation only looks attractive until it is harvested.

“And then it looks pretty rough,” in the words of one vigneron.

Megan’s study, which sets out the wine region’s needs in terms of sustainable growth, is just one of 13 CEED projects drawing to completion at UWA this year.

CEED stands for Co-operative Education for Enterprise Development, and the program is designed to give industry the opportunity to capitalise on the expertise of senior undergraduate and postgraduate students in a range of disciplines. The students undertake specific projects funded by client organisations, with the University providing the necessary facilities, and the students receiving the benefits of tax-free studentships.

CEED has been operating at UWA since 1989. It is fully self-supporting, and over 200 projects have been completed during the past decade. Although originally confined to the province of engineering, it has now expanded to include a range of disciplines, which this year included psychology, geography and mathematics.

Alongside Megan Farrelly’s vineyard project in the Great Southern region, Enrico Palermo, who is studying for an honours degree in mathematics and statistics, has been applying his mathematics expertise to an iron ore project on behalf of Rio Tinto.

To maximise returns on iron ore exports, he has been making and testing different models to devise better techniques for blending different grades or ore. “It is different from gold mining because the ore has to be a certain quality for shipping to Asia,” says Enrico. “The iron content cannot be too low, or the impurity content too high.”

Engineering student Callan Gault is completing a project for Austal Ships, whose larger ferries have to transport trucks, buses and cars. His challenge is to design the hardwearing aluminium extrusions used to manufacture ferry decks.

The idea behind CEED is to promote a culture of research in industry, says program manager Dr Laurence Spencer, Senior Lecturer in the Department of Mechanical and Materials Engineering. A seminar in September gave the 13 CEED students the chance to demonstrate the quality of their projects to delegates from industry and government, and UWA supervisors and peers.

“Gradually more people in more departments are coming to appreciate what they and their departments can gain from CEED,” says Dr Spencer.

For the University’s research partners, CEED provides an opportunity to improve performance and increase profits, share project costs, gain access to University expertise and equipment, and assess and pre-train potential employees.

The students gain valuable experience and improve their employment prospects; they receive studentships and have the chance to work on topics designed to benefit the larger Western Australian community.
Gordon Lutz, Senior Lecturer with the Department of Mechanical and Materials Engineering for 33 years, died in Perth on September 13.

Born in 1914, Mr Lutz graduated from UWA with a degree in engineering in 1937. He took up a post in Kalgoorlie where he taught at the Kalgoorlie School of Mines until the outbreak of war in 1939.

It was in Kalgoorlie that he met his wife Mickey. They were married in 1941, the start of a 60-year partnership. "In discussion, it was never 'Gordon or Mickey', but always 'Gordon and Mickey,"' recalls Associate Professor John Wager, who was a close friend and colleague for 50 years and gave the eulogy at his funeral.

After the war, during which he worked as a mechanical engineer in the Footscray Ammunition Factory, Mr Lutz returned to Perth, and joined UWA in 1946 as Senior Lecturer in Mechanical Engineering. His appointment marked the start of a career that would span 33 years, during which he served with distinction as both Head of Department and Dean of Engineering, earning respect for his lecturing and research skills in mechanics and thermodynamics.

Outside work, and his family, "which always came first," according to Associate Professor Wager, Mr Lutz had three passions — freemasonry, golf and Rottnest: "Gordon was very well-known to all the old habitués of Rottnest, having been there every year possible since 1914. It was the Lutz family summer ritual."

Mr Lutz leaves his wife, son Peter and daughter Julie, eight grandchildren and four great grandchildren.
**Campus Diary**

**UWA News** is published fortnightly. Information for the publication dated 30 October should be forwarded to Joanna Thompson, Publications Unit, ext 3029, fax 1162, email: uwanews@publishing.uwa.edu.au

**NO LATER THAN 5PM ON 18 OCTOBER**

Media enquiries to Public Affairs on 9380 2889. Unless a restricted audience or charge is specified, all the events/exhibitions listed here are free and open to all and may attract media interest.

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**Oscar Wilde’s SALOME**

Theatre Studies in the Department of English presents Oscar Wilde’s Salome at the Dolphin Theatre from Tuesday 17 to Saturday 21 at 8pm. Tickets: $10 full and $7 concession. Bookings can be made on 9380 2440.

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**NEUROLOGICAL EXPO 2000**

A Neurological Expo will be held at SCGH and the Australian Neuromuscular Research Institute on 14 and 15 November from 9am to 5pm each day.

Thirty-eight research, medical and care organisations will feature an exhibition and a lecture program of 28 speakers, and ten keynote addresses will be held. There is no charge and everyone is welcome. For more details please ring Linda on 9380 4495.

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**Monday 16 October**

**ASTHMA AND ALLERGY RESEARCH INSTITUTE SEMINAR**

“Initiation of asthma”, Peter Sly. 12.30 to 1.30pm, Joske Seminar Room, Medicine, Fourth Floor, G Block, SCGH.

**BOTANY SEMINAR**

“Respiration, growth, efficiency and metabolic heat loss in plants”, Craig MacFarlane. 4pm, Seminar Room, Botany.

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**Tuesday 17 October**

**LAWRENCE WILSON ART GALLERY**

“Gravitate.” This talk will be an engaging, cross-disciplinary exploration of the concept of ‘gravity’. Speakers include John Tarry, Phillip Gamblem, Michell Theunissen and David Blair. 1pm, LW AG.

**SOIL SCIENCE AND PLANT NUTRITION SEMINAR**

“Bugs ain’t bugs: understanding Rhizobium diversity”, Krys Haq. 4pm, Agriculture Lecture Theatre.

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**Wednesday 18 October**

**ANATOMY AND HUMAN BIOLOGY SEMINAR**

“Retinal ganglion cell survival and regeneration after injury in rodents”, Dr Qi Cui. 4 to 5pm, CTEC Seminar Room, Ground Floor, adjacent to Anatomy and Human Biology Building.

**THE PHILOSOPHY SOCIETY MEETING**

“The foundations of mathematics revisited”, Mike Partis. 4.30pm, Arts Seminar Room 1.33.

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**RICHARD WAGNER SOCIETY OF WA (INC.)**

“Acts II and III of Gotterdammerung. Members: no charge; Visitors: $10/$8. 7.30pm, Room G5, School of Music.

**CHEMISTRY SEMINAR**

“From oligosaccharide and glycosphingolipid synthesis on polymer supports to caged sphingolipids”, Uri Zehavi, Hebrew University of Jerusalem, 12 noon, W Hite Lecture Theatre.

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**Thursday 19 October**

**FREE LUNCHTIME CONCERT**

“The W AIM Chorale present a concert of works for choir and piano. 1.10pm, W introp Hall.

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**Friday 20 October**

**MICROBIOLOGY SEMINAR**

“Pax 5 and B cell development”, Dr Lawrie Abraham, Biochemistry. 9am, Seminar Room 1.1, First Floor, L Block, QEIIMC.

**ANTHROPOLOGY SEMINAR**

“Transylvania: power and building the nation state”, Dr Rob Imre, Department of Politics, ECU. 12 to 1pm, Anthropology Conference Room.

**ASIAN STUDIES SEMINAR**

“ ‘If only you were a woman . . .’: male friendship and homosocial desire in Japanese popular culture texts”, Romit Dasgupta. 1 to 2pm, G 25 Seminar Room, Ground Floor, Social Sciences/ Economics and Commerce Building.

**ACCOUNTING AND FINANCE WORKSHOP**

“Financial analysts’ reactions to alternative preference share classifications and covenants”, Mr Trevor Wilkins, University of Queensland. 2pm, Research Centre, Accounting and Finance, Room 1.93, First Floor, Economics and Commerce Building.

**CIVIL AND RESOURCE ENGINEERING**

“Behaviour of cemented carbonate sand”, Mostafa Ismail. 3.45pm, Room E151, First Floor, Civil Engineering Building.

**ARCHAEOLOGY SEMINAR**

“Recent research into Aboriginal historic-period sites: Aboriginal work histories in the Northern Territory pastoral domain”, Dr Alistair Paterson. 4 to 5pm, Simmonds Lecture Theatre.

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**Tuesday 24 October**

**LAWRENCE WILSON ART GALLERY**

“Virtuosi Portfolli.” The dynamic music performance group Defying Gravity brings a musical offering to the Gallery to celebrate the Gallery’s new exhibition on the theme of music, featuring prints by outstanding Australian artists including Arthur Boyd, John Olsen and Mandy Martin. The concert is presented in conjunction with the School of Music. 1pm, LW AG.

**FREE LUNCHTIME CONCERT**

“The W AIM Chamber Choir, directed by Anthony Maydwell. 1.10pm, W AAPA.

**SOIL SCIENCE AND PLANT NUTRITION SEMINAR**

“Brazilian soils and landscapes: a broad vista from Amazonia to the southern plains”, Dr Carlos Schaeffer, Federal University of Vicosa, Brazil. 4pm, Agriculture Lecture Theatre.

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**Wednesday 25 October**

**LAND PLACE CULTURE IDENTITY PROGRAM**

“The medieval seasons of peace and war”, A/Prof Andrew Lynch. 4pm, Institute of Advanced Studies Building.

**ANATOMY AND HUMAN BIOLOGY SEMINAR**

“Do ‘on-line’ courses enhance learning and will they really revolutionise Tertiary Education”, A/Prof Geoff Meyer. 4 to 5pm, CTEC Seminar Room, Ground Floor, adjacent to Anatomy and Human Biology Building.

**PHYSIOLOGY RESEARCH SEMINAR**

“Ca2+ homeostasis and excitation-contraction coupling in skinned skeletal muscle fibres”, Dr Anthony Bakker. 5pm, Physiology Seminar Room.
Friends of the UWA Library Meeting

*Perth International Arts Festival's Millennium celebration festivals 2000-2003*, Sean Doran, Artistic Director and CEO. 7.30 for 8pm, Library Training Room, Ground Floor, Reid Library.

**The Kyle Oration**


**Chemistry Seminar**

“Metalacumulenes and alkynylcarbenes of Group VIb metals”, Helmut Fischer, Universität Konstanz, 12 noon, White Lecture Theatre.

**Zoology Seminar**

“The start or end of the Tethyan Track? Characteristics of the northwest Australian anchialine systems”, Dr Bill Humphreys, WA Museum. 4pm, Jennifer Arnold Lecture Theatre.

**Thursday 26 October**

**Zoology Seminar**

“The start or end of the Tethyan Track? Characteristics of the northwest Australian anchialine systems”, Dr Bill Humphreys, WA Museum. 4pm, Jennifer Arnold Lecture Theatre.

Friday 27 October

**Microbiology Seminar**

“Gene discovery in neuromuscular diseases”, Dr Nigel Laing, Centre for Neurological and Neuromuscular Disorders, ANRI. 9am, Seminar Room 1.1, First Floor, L Block, QEIIMC.

**Archaeology Seminar**

“An introduction to historical archaeology at the Old Farm on Strawberry Hill, Albany, WA”, Amy Gardos. 4-5pm, Simmonds Lecture Theatre.

**Asian Studies Seminar**


**Civil and Resource Engineering**

“Three dimensional simulation of flow characteristics at bridge piers”, Zhiliang Ou. 3.45pm, Room E151, First Floor, Civil Engineering Building.

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**Centre for Microscopy Courses November 2000**

**Scanning Electron Microscopy**

13 to 14 November Max. 20 Min. 10

8.30am to 6pm. The course covers basic scanning electron microscopy, digital imaging and minimum sample requirements. Users will be trained on instruments appropriate to their needs to a basic operational standard. Afternoon practical sessions support the theory. Any queries contact Associate Professor Brendan Griffin, ext. 2739, email: big@cyllene.uwa.edu.au.

Please note that this course is a prerequisite for the Electron Microbeam Analysis Course and the Environmental Scanning Electron Microscopy Course.

**Electron Microbeam Analysis**

15 to 17 November Max. 20 Min. 6

8.30am to 6pm. This is an introductory course in electron microbeam analysis of bulk samples. The program covers general theory and principles of operation of energy dispersive X-ray detectors, X-ray data correction procedures and sample preparation. Basic wavelength dispersive X-ray analysis will also be covered. Afternoon practical sessions support the theory. The final session will include discussion of applications, interpretation and problems that may be encountered. Any queries contact Associate Professor Brendan Griffin, as above.

Completion of the S.E.M. course is a prerequisite for this course.

**Environmental Scanning Electron Microscopy**

16 to 17 November Max. 10 Min. 6

11am to 6pm. The special characteristics of the ESEM will be covered with emphasis on control of temperature and pressure of the sample chamber environment. The benefits of the ESEM will be explored on a range of moist and uncoated specimens of a physical and biological nature. The new charge contrast imaging will be covered. Any queries contact Associate Professor Brendan Griffin as above.

Completion of the S.E.M. course is a prerequisite for this course. NOTE LATER STARTING TIME.

**Optical Microscopy**

20 to 21 November Max. 6 Min. 4

9am to 6pm. This course covers general principles and application of all areas of light microscopy including brightfield, phase contrast, normaski interference, polarising and fluorescence microscopy. Basic histochmistry for high resolution light microscopy will also be included. Any queries contact Associate Professor John Kuo, 2765, email: jjskuo@cyllene.uwa.edu.au.

**Confocal Laser Scanning Microscopy**

22 to 24 November Max. 8 Min. 4

9am to 6pm. The course covers the theory and practice of confocal microscopy. Students are encouraged to bring their own samples for practical sessions. Any queries please contact Associate Professor John Kuo as above.

**Introductory Transmission Electron Microscopy**

27 to 29 November Max. 12 Min. 6

9am to 6pm. This course gives an appreciation of the capabilities of TEM, practical training in the operation of the microscope and instruction in the interpretation of results. It is suitable for biological, physical scientists and engineers. Any queries contact Associate Professor Andrew Johnson, ext. 2764.

Please note that this course is a prerequisite for the Crystallography Courses for Electron Microscopists and the Gatan Image Filter Courses which will be held in early 2000.

**Biological Transmission Electron Microscopy**

30 November to 1 December Max. 6 Min. 4

9am to 6pm. This course covers both the theory and hands on practical training for specimen preparation, ultramicrotomy and TEM operation for biological applications. Any queries please contact Associate Professor John Kuo as above.

Places are limited but all courses are open on a first-come basis, except that UWA course requirements take precedence. There is no cost to UWA students or staff. No cost to Curtin participants. $150 per day for others. Application forms can be obtained by telephoning 9380 2770 or fax 9380 1087.
‘Earth’ theme for Festival

Summer is just around the corner, and the Perth International Arts Festival is as much a part of our Perth summer as sun and sand, barbecues in the backyard, and picnics on the Swan.

This will be the second in a series of four Millennium Celebration events leading up to a milestone in the Festival’s history — its 50th anniversary in 2003.

Each Festival has as its theme one of the four elements — water (2000), earth (2001), air (2002), and fire (2003), and each is represented by a different colour — blue, red, silver and gold. For his poster representing ‘Earth’, acclaimed West Australian photographer Richard Woldendorp has chosen a striking image of patterns etched by wind on sand dunes.

The 2001 festivities are set to open with concerts on Australia Day, January 26 2001, followed by a vibrant and diverse program of music, theatre, visual arts and film.

Indian Ocean Rim countries will be represented by performance acts from South Africa and artists from India, Nigeria and Singapore.

For the first time in its 48-year history, the Festival has appointed a curator to manage the Visual Arts program in which the focus will be on current Australian and international art, with a focus on ‘new media’. A highlight will be a major exhibition of the work of Robert MacPherson.

The Watershed Club, which made its debut last year, makes a welcome return to the Perth Cultural Centre where live electronic music will provide a throbbing hub to festival activities. Daily public forums in the centre will give members of the public a chance to meet and talk to visiting artists.

To highlight the Festival’s commitment to extend its reach beyond the city boundaries, a new mini-festival of classical chamber music will be taking its program down to audiences in the South West.

The WA Fringe Festival returns with a program that includes a ten-day comedy season featuring local, interstate and international talent, an online writers’ festival, and a short film fest. Awards will be offered in all categories.

Filming is a bit like the army — long periods of inaction punctuated by short bouts of frenetic activity.

And UWA’s stunning campus is regularly in demand as a setting for film making. Seen on campus recently, as they waited patiently to be called in front of the cameras was a remarkable collection of exotic fauna that stopped passers-by in their tracks. The menagerie was under the very efficient control of its owner Nigel Spencer (pictured), who operates a business aptly named Incredible Creatures, and his young companion Kiara Marie Maitre.
Before coming to the West from Sydney in 1996 to study music, horn player Natalie Lukin was not sure how long she would stay in Perth, although she had heard ‘lots of good things’ about UWA’s School of Music, “When you’re thinking of making a move like that, it’s hard to make a decision.”

In the event, she enjoyed her studies — and the West — so much so that she stayed for four years, and last month she was back again from the Olympic City, this time to receive the Lady Callaway Medal for Music for her achievements during her undergraduate years.

The medal is awarded each year to the most outstanding student in the final year of an undergraduate degree. It recognises excellence in performance, composition, musicology, music education and student leadership.

Natalie had her first violin lesson at the age of three, but it was not until the age of thirteen that she switched to the horn. Three years later, she was a Young Artist with the Sydney Symphony Orchestra, performing Mozart’s 3rd Horn Concerto.

During her four years in Perth she was the only Australian musician in the Jeunesses Musicales World Orchestra for five international tours, playing Principal Horn on the European tour with Kurt Masur and Anne-Sophie Mutter. She also performed with the West Australian Symphony Orchestra (WASO), Australian Youth Orchestra, Camerata Australia, and at the Barossa Music Festival, and was involved in numerous National Academy of Music Programmes. She performed as a soloist with the UWA string orchestra and with the WASO in a concerto workshop.

Since graduating at the end of last year, Natalie has been broadening her experience freelancing in Sydney, playing with the Australian Chamber Orchestra and the Sydney and Canberra Symphony Orchestras.

In July this year, she spent a month in Japan at the Pacific Music Festival, working with principal players from the Vienna Philharmonic and other leading orchestras, as well as with conductors Charles Dutoit and Michael Tilson Thomas.

It’s good to know that it is more than our plunging dollar that is currently attracting US citizens to the shores of Australia.

“More and more people come to Australia because they like Australia. It’s a great place,” says Sam Pickering (pictured), Professor of English at the University of Connecticut, and one of a number of overseas and interstate visitors to UWA’s Department of English during the past few weeks.

This is Professor Pickering’s second visit to Perth. He first came over on sabbatical in 1993-94, and wrote a book, Walkabout Year, on his experiences here. He enjoyed himself so much he is back again this year with his wife Vicki, younger son Edward and daughter Eliza.

We can look forward to another book — to be titled Australia Fair — emerging from his current stay. Already he has started to gather material by taking the family up to Exmouth for a few days, and he can probably claim to have sampled more of Australia than many of the locals, having camped in the Kimberley, crossed the Nullarbor on the Indian Pacific, caught the sun on Cable Beach, and travelled as far south as Albany.

As the man on whom the lead in the film Dead Poets’ Society was partly based, Professor Pickering is a prolific author and has written 15 books, mainly based on his own experiences and observations of life: “You have to be alert all the time,” he asserts.

In the US, his sense of humour and eloquence have made him much in demand as a public speaker. “Women,” he declares, “are by far the best audiences.”
Occupational Safety and Health Policy

COMMITMENT
The University of Western Australia acknowledges that the provision of a safe and healthy work environment for employees, students, contractors and visitors is not just a moral and legal responsibility but also a prerequisite for it to achieve its primary mission of conducting teaching, research and scholarship at the highest international standards. This commitment to protecting its human resources also extends to ensuring the University’s operations do not place the local community at risk of injury, illness or property damage.

OBJECTIVES
The University will ensure compliance with the Occupational Safety and Health Act 1984 and Regulations, other legislation and current industry standards by:
- providing and maintaining safe workplaces, plant and systems of work
- providing information, instruction, training and supervision to ensure safe systems of work
- ensuring that nominated safety personnel are adequately trained and supported
- consulting and cooperating with safety and health representatives, employees and others
- providing and maintaining personal protective equipment as required
- continuously reviewing and improving its safety performance.

RESPONSIBILITIES
Each Head of Department/Section is accountable for implementing this policy in their area of responsibility. Management is responsible for:
- the provision and maintenance of a safe workplace and systems of work
- involvement in the development, promotion and implementation of safety and health policies and procedures
- training and supervising employees and students in the safe performance of assigned tasks
- the provision of resources to meet the safety and health commitment.

Employees, students and contractors are to:
- take reasonable care of their safety and health and that of others
- follow all safety and health policies and procedures
- report all known or observed hazards, incidents and injuries.

APPLICATION OF THE POLICY
This policy is applicable to The University of Western Australia in all its operations and functions including those situations where employees and students are required to work off site.

[Signatures]

Professor Deryck Schreuder
Vice-Chancellor and President

Professor Yianni Attikouzel
Chair, University Safety Committee

September 2000
Enthusiastic support for UWA students, and involvement in his local Vietnamese community, have won for honours student, Paul Huu Minh Hung Nguyen, the 2000 Zonta International 11th Annual Youth Award.

The aim of the award, presented at a dinner in September, is to recognise young people who have made a positive and valuable contribution to society. It is not an ‘academic’ award as such — rather, it celebrates exceptional effort and dedication and is presented to young men and women between 15 and 22 who demonstrate commitment, leadership, devotion, and organisational ability.

Paul, who is currently studying for an honours degree in engineering and science, was selected because of his support for and involvement with UWA students and his local community.

Since coming to UWA in 1996, he has somehow managed to find the time — while achieving outstanding academic results — to take on the role of student mentor, provide support to students from disadvantaged and non-traditional backgrounds, and visit schools to talk about engineering as a career. “He is very popular and is often sought out by young people requiring advice,” was one of the comments on the award nomination form.

Paul is also actively involved in the local Vietnamese community, and is a voluntary Sci Guide at the Scitech Centre.
**CLASSIFIEDS**

**FOR RENT**

FURNISHED THREE-BEDROOM HOUSE with spa, walking distance from UWA. Available for rent at $5210 p/w from December to July (1st week). Call ext. 3449 or 9389 7172 (ah), or by email at: datta@csd.uwa.edu.au.

BEAUTIFULLY APPOINTED COTTAGE FOR RENT in Blackwood Valley, near Balingup. Offers valley views, tranquillity, seclusion and a cozy wood stove. Call Jackie on 9336 3250 or 040 738 2527.

TOWNHOUSE, CALAIS RD, SCARBOROUGH, fairly new 3-bedroom (master ensuite), 2 bathrooms, 2 toilets. End unit in quiet block of four with automatic garage door, security system, recycle aircond., and pleasant private courtyard. Close to shops, public transport and park. $220 p/w. Contact ananda@library.uwa.edu.au or phone 9346 1250.

**WANTED**

RELIABLE GUY/GIRL TO SHARE with 2 girls and 3 cats in 3 brn non-smoking house in South Perth. Own brm furniture required. No children or additional pets, please! Fantastic river and city views, great access to cycle paths and transport. Pref. employed person. $80 p/w (plus small bond, negotiable) and expenses. Contact Julie/Helen on 9474 6920.

WANTED TO RENT. Rental/housesitting wanted for visiting researcher and family. Looking for 3-bedroom furnished house mid-November onwards, short to medium term, over summer. Phone (work) 9183 1122 or email: aheyward@aims.gov.au.

**HOUSESITTING SERVICE**

PROFESSIONAL WOMAN (non-smoker) with car, willing to housesit in any suburb. Have housesitting experience and can provide excellent references. Available from November 1. Contact Lee on 0413 306 663 or lwillem@alianet.alia.org.au.

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**CENTRE FOR STAFF DEVELOPMENT**

**What's on next ...**

Places are available in the following workshops 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.

- Applying for ARC Large Grants: Critical and Peer Review of Applications — HSS
- Applying for ARC Large Grants: Critical and Peer Review of Applications — BS
- Applying for ARC Large Grants: Critical and Peer Review of Applications — MPSE
- Applying for NHMRC Large Grants: Critical and Peer Review of Applications
- Financial Considerations in Retirement Planning
- How the University Works: Human Resources, Equal Opportunity and Industrial Relations
- How the University Works: The University Budget Process
- How to Carry Out a Diversity Audit
- Supervising Postgraduate Students
- Using the University's Accounting System: Budget Process
- Using the University's Accounting System: Financial Services' Web Site
- Using the University's Accounting System: Forms and Chart of Accounts
- Using the University's Accounting System: MasterCard — Corporate and Purchasing
- Using the University's Accounting System: Payroll Related Matters
- Using the University's Accounting System: Taxation Issues

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**Results of the Election of Postdoctoral Research Staff to the Academic Board**

The result of the ballot held at the Academic Board meeting on September 20, to fill a vacancy in the Postdoctoral Research Staff category, is as follows:

**Dr Pam Sharpe**

Department of History

January 1 2001 to December 31 2002.

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**MOBILE BLOOD DONOR SESSIONS**

The Australian Red Cross Mobile Blood Service will be visiting UWA from Monday October 16 through to Thursday October 19.

The service will be operating each day from 9am to 12noon and 1 to 4pm, except for Thursday, when the service will open at 8.30 am to 12noon, and 1 to 3.30pm.

If you would like to donate blood, please call for an appointment on 0417 098 926. The mobile service will be situated on the rugby oval, near Hackett Drive. And, please drink plenty of water before donating your blood.

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**Redundant Equipment for Sale**

**ITEM** | **PRICE** | **AGE** | **COND.** | **CONTACT** | **EXT**
---|---|---|---|---|---
Computer Speakers (GLI S5982) | $50 | — | 1 | Nathan | 2423
Colour Monitor 14" (Digital PCX BV-EY) | — | — | 1 | Nathan | 2423
Mac Classic Computer (M0420) | — | — | 1 | Nathan | 2423
Printer, Toner Cartridge (for EP-S) | — | — | 1 | Nathan | 2423
Computer Desk (approx. 1.2m x 0.8m x 1m) | — | — | 1 | Nathan | 2423
Mac Keyboards x 6 | — | — | 1 | Nathan | 2423
Mac Cards and Mouse | — | — | 1 | Nathan | 2423
Phone/Fax Machine (Sharp FO-220) | — | — | 1 | Nathan | 2423
IBM Keyboard (Digital KB-5923) | — | — | 1 | Nathan | 2423
Apple Mac II SI, Mac OS 7.1 | $150 | 6-7 | 3 | James | 1659
Quadra 605, Mac O’S 7.5 | — | — | 1 | Nathan | 2423
Mac 7220 with 14" monitor | $800 | 3 | 2 | James | 1659
Mac LC630 with 14" monitor | $300 | 6 | 2-3 | James | 1659

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

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

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**THE UNIVERSITY OF WESTERN AUSTRALIA • 16 OCTOBER 2000**
GRDC (GRAINS RESEARCH AND DEVELOPMENT CORP.)
Mr Dean Baker and Prof Winston Bailey, Zoology, and Dr O. E. Edwards and Dr H. L. Loxdale (external): “Travel: Visit To CSIRO Laboratories, Montpellier, France and Rothamstead Institute, Harpenden, UK” — $2000.

IAN POTTER FOUNDATION
Dr Evan Ingleby, Biochemistry: “Travel to American Society of Hematology in San Francisco” — $1000.

NHMRC
Prof Peter Le Souef and Associate Professor J. Goldblatt, Paediatrics: “A mutation screen of candidate genes involved in the mechanisms of airway responsiveness” — $86,504 (1999); $97,876 (2000); $98,915 (2001).

WA HEALTH PROMOTION FOUNDATION
Dr Johanna Clarkson, Public Health, Dr Wilma Giles Corti, Albany Centre, and Associate Professor D. Cross and Dr G. Durham (external): “Visiting Research Fellowship”.

Dr Werner Stritzke and Professor Kevin Durkin, Psychology, and Associate Professor Stephen Houghton, GSE: “Influence on uptake of alcohol and tobacco use in urban and rural youth” — $91,283 (2001); $85,626 (2002); $91,972 (2003).

CORRECTION
In The Last Word (September 18 edition), it was incorrectly stated that ‘the largest library building in the University Library system is the Reid, named after a former Chancellor of the University and State Governor’. In fact, the library was named after Sir Alexander Reid, Chancellor of the University from 1956 to 1968, not Professor Gordon Reid, who was Governor of Western Australia from 1984 to 1989 and a professor at UWA.

Asian anthropology
In response to our front page story last week (A bridge too far?), anthropologist Philip Taylor is resident in the Department of Anthropology. He is a postdoctoral fellow, jointly appointed in the Departments of Anthropology and Asian Studies. His e-mail address is: p-taylor@cyllene.uwa.edu.au

UWA news}

Watch out for more Research Grants and Contracts in the next issue of UWA News.
Smooth baton change!

Tim Huggins
President of the Guild of Undergraduates

I write as a Guild President whose clock is ticking. After ten months guiding the good ship Guild through the challenges which the University throws our way, the baton is poised to be passed to the charismatic Kristy Duckham, Guild President for 2001.

Casting my mind back to the first meeting I attended this year, the inaugural meeting of the ‘Post-compulsory Education Review Working Party,’ I had the temerity to pose a question: “what exactly am I to contribute to this forum?” The reply came from a slightly amused David Treloar who, grin on face, exclaimed ‘I see we have a new Guild President.’ He proceeded to tell me all about the brilliance of the last few Guild Presidents and the probability (as determined by his informal longitudinal study) of an ineffective President any time soon. A bigger challenge he couldn’t have tossed my way!

I thought I’d take this opportunity to dwell on some of the macro issues the Guild is dealing with in its 87th year. The introduction of Voluntary Student Unionism in WA in 1994 has rocked the Guild and forced it to reprioritise its operations. After some serious restructuring in 1997, we’ve bounced back, ready now to take the next step towards fulfilling our mission. Our membership in 1996 was 2400. In 2000 we’ve attracted 4293 members all the while minimising the service differential between members and non-members in all our representative work, we represent all UWA’s students to the University and beyond. Our advocacy is done on a needs basis, irrespective of membership status. The facilities we maintain and develop are used by all UWA students. My point is that despite VSU, we are still able to provide a campus life for UWA students which rivals the best in the country. While we receive valued support from the University Executive, there is sometimes a blockage in the ‘trickle down effect.’ We need people on all branches of the University tree to vocalise their support for the Guild and encourage students to contribute to their student body. All our snazzy posters and slogans pale in effect beside a couple of supportive words from a lecturer to a first-year class. So if you get a chance to support the Guild publicly . . . do and do it loud!

We’re fortunate at UWA to have a very constructive relationship between the student body and the University. It’s sometimes difficult to explain to other student reps at national conferences the unusual symbiosis of this relationship. They find it a challenge to comprehend that “when we have an issue, we just call Alan.” The outcomes from such a positive relationship speak for themselves. This year the Guild has lobbied on the issue of Ancilliary Fees and Charges, bringing about a new protocol which will guide future departmental charging. Similarly, the recently negotiated ‘Charter of Student Rights’ sets somewhat of a benchmark for other universities nationally. The process by which these two new documents have come into existence has been arduous but amicable. Thanks to all involved in the negotiation process, in particular David Treloar who’s monitored my Presidential progress tenaciously!

The Guild is an organisation with enormous potential. As a climax to our financial consolidation in the past few years, we’re undertaking a strategic planning process with the aim of charting our direction over the next five years. With an annual turnover of leadership this is an important task. In addition to internal reviews and analysis, we’re very keen to get feedback from all the Guild’s partners in the University community. We need to know what we do well, what you perceive we’re neglecting and how best we can go about changing our direction. If you have any ideas or criticisms, no matter how outrageous, don’t hesitate to write to me at: president@guild.uwa.edu.au

As for the immediate future, keep your web browsers peeled for the new Guild web site (coming soon), as well as a redeveloped Guild Courtyard area with the generous assistance of Senate. The Guild is committed to fulfilling its function as enshrined in The University of Western Australia Act 1911, that of nourishing a vibrant campus life, of providing extra-curricular and personal development opportunities for students and of acting as the primary vehicle for communication between the University and its students. We look forward to your support in bringing to fruition this lofty goal.

... the last word