The ‘greening’ of chemistry is a concept which might not appeal to some in the corporate world. But this latest direction in science has already proved its worth in one of the toughest international corporate arenas.

Dupont, the world’s biggest chemical company, based in the US, took up the philosophy of green chemistry and, within a year, had saved one billion dollars.

“Green chemistry is not only an environmental necessity, but it has proved itself economically feasible,” said Colin Raston, UWA’s new Professor of Chemistry, and an international leader in the teaching and practice of green chemistry, UWA’s newest course.

Green chemistry is defined as carrying out chemical activities – including chemical design, manufacture, use and disposal – in such a way that hazardous substances are not used or generated.

The first students to enrol in a Bachelor of Science (Green Chemistry) will start next year. A third-year unit in Green Chemistry will also be offered to other science students.

For at least the past decade, some scientists have been concerned about chemical processes that are causing damage to the environment. Two young chemists in the US got the debate going in the mid-1990s, promoting a revolution in the way of thinking about chemical sciences. They established the groundrules.

Continued on page 4

Seven-year-old Phoenics Hewson couldn’t wait to get home to read his books from the Save the Children Fund book sale …

… so he didn’t. He settled himself into one of the limestone benches by the Reflection Pond and got stuck into the Cat in the Hat while his mother, Susan Lingard, continued to browse.

She explained that Phoenics was home from school with a cold, and a trip to the book sale, followed by a read in the sun was the best possible medicine.

The book sale, the annual fund raiser of the University branch of the Save the Children Fund, raised more than $125,000.
Last weekend I was privileged to have one of those great Western Australian experiences that stays in the memory and the heart for a long time.

Together with more than 30 of my fellow Australian Vice-Chancellors I visited Minyirr Park above Gantheaume Point in Broome as a guest of the Ribibi people.

It was a hot and dusty Sunday afternoon and the very bright light of the Kimberley came at us from the dunes and the shimmering green waters of the Indian Ocean. We climbed the dunes to visit a place sacred to Aboriginal memory, where Richard-the-Story-Teller could share the Dreamtime origin story of his people and all the original peoples of this vast land.

As part of the Annual Retreat of the AVCC we had chosen issues of Indigenous Education as a major theme. And here was a rare opportunity to invite discussion of AVCC policy and practice in this crucial matter for the nation. The Government has largely taken up our recommendations on Indigenous Education and funding as part of the Crossroads review process. But, what next?

To receive that advice we were in Minyirr Park to listen to the Elders, together with leading Aboriginal leaders — such as Pat Dodson and Carol Martin (MP for the Kimberley).

But before we got to the advice, discussion and some billy-tea, we were allowed to hear the Creation Story and how that story had been sung into the songs which carried it beyond the place on the beach where the people had first emerged from sea and coastline.

With worldly-wise comment, Richard-the-Story-Teller ended his engaging narrative with the phrase, “Now you see why the earth is our bible ...”

Singing that song of knowledge has been a profound force in the Aboriginal society.

We can learn from such songs.

They powerfully anchor us in the environment that is Australia. And they pose profound questions about how our history shapes our consciousness.

Even in non-utilitarian ways, the songs of knowledge also remind us of the power of education, in which the universities have a critical role to play.

What we will be as a nation, our vision and our capacity, is increasingly anchored in our educational system. The world will not be kind to societies that lack the kinds of skills in science, creativity and analysis that underpin 21st century economies and societies.

Within that song of knowledge, we also need to include major issues of internationalisation — in particular, how we are to live in a multi-cultural region. Just how we relate to our neighbours — whether we secure Australia outside South East Asia or within a regional system of collaboration and alliance — will be affected by knowledge of the neighbourhood.

Once again, the universities have a critical role to play in the study of, say, Asian cultures, and also our role as educators of students from the region.

Indigenous education and reconciliation issues additionally featured in our discussions, with much practical advice given to Vice-Chancellors for policies of intervention — towards greater Indigenous participation in schools and universities — together with deeply informed views about socio-cultural problems faced by Aboriginal Australians. The benefits of that kind of discussion will flow into policy and action within universities.

Our song of knowledge is in that sense also our creation song for the future.

If you have the opportunity, I encourage you to visit Minyirr Park and the Ribibi people. Their wisdom, their song of creation, could also inspire you as it set me thinking about a university vision for a future Australia.
At the time of the State Government’s controversial announcement halting development at Ningaloo, UWA geography students were there, working for tourism’s invisible partners — the pastoralists.

Geography lecturer in the School of Earth and Geographical Sciences, Dr Matthew Tonts, took nine senior students (pictured below) to the Ningaloo region on a field trip to assess the environmental impact of tourism on the area — for the benefit of the pastoral station owners.

“The Maud’s Landing development would have done very little for one of the biggest environmental problems, that of unregulated camping on pastoral properties, where a significant proportion of tourists are contributing to land degradation, probably without realising it,” Dr Tonts said.

“The station owners are keen to develop their share of the region’s tourist industry but they are very aware that the more people who camp on their properties, and especially the more irresponsible people who visit, the more significant the environmental impact.

“As it is this very environment that draws tourists to Ningaloo, the station owners have a vested interest in caring for, rehabilitating and managing the land.”

The students spent a week talking to tourists about their use of the area, their reasons for visiting the region and their frequency of visits; looking at the tourists’ impact on the environment; and talking to pastoral station owners about their needs and future directions.

They are currently putting together a report, which will be sent to the station owners, to feed into their environmental management plan.

“One of the interesting things about the regular visitors is that they feel an affinity to the area and they have, over the years, got to know each other and formed groups to work together to preserve the environment,” Dr Tonts said. “They have done things like erecting fences around damaged or sensitive areas to protect them and the station owners have encouraged them to do this.”

Dr Tonts said that pastoral leases in WA were currently being renegotiated and that the State Government planned to excise some areas of environmental sensitivity from stations, including a two-kilometre strip along the coast in the Ningaloo region.

“The station owners don’t want this to happen. So they are keen to develop strategies that ensure the land is managed in an environmentally sensitive way.”

He said a fascinating aspect of the students’ research was how the tourists assessed the value of their visits to Ningaloo.

“Many of them said they felt refreshed and renewed by going there, that it was an effective way of de-stressing and they viewed it as an important health benefit. So part of the report will focus on the contribution tourism at Ningaloo makes to good health.”

Dr Tonts said the field trip significantly improved the students’ research skills and he was grateful for the help of the Combined Universities Centre for Rural Health in Geraldton in organising and running the trip.
Benign by Design

of no waste, no toxicity and renewable energy and resources to support chemical technologies for a sustainable future.

By 1999, Professor Raston was establishing Australia’s first research centre of excellence in green chemistry, at Monash University. The Royal Society of Chemistry initiated the world’s first and (still) only international journal of green chemistry five years ago and Professor Raston is the chair of its editorial board.

After Monash, he went to the University of Leeds and has lectured on the principles of green chemistry all over the world. He was the 2002 recipient of the Green Chemistry Challenge Award from the Royal Australian Chemical Institute.

Professor Raston returned to UWA, where he had originally completed his PhD under Professor Allan White, to spread his passion for environmental sustainability and how it can be achieved through green chemistry.

He explained that the philosophy of environmental chemistry was not new.

“It was all about monitoring the environment, remediation and cleaning up after chemical processes. But green chemistry goes further. It says enough is enough. There has to be another way of doing things.

“And there is. The green chemistry movement has already developed a technique for the paper and pulp industry to bleach recycled paper without using chlorine.

“The use of water as a solvent has also been developed. Traditional solvents are toxic, combustible and volatile and the technology needed to contain them is expensive. So we looked at an alternative and came up with water. Carbon dioxide, in its liquid form, could also be used as a solvent. CO₂ is a by-product of brewing, so chemists could get brewers to give it to them and, when they’re finished with it, return it to the atmosphere as a gas — a perfect sustainable situation.

“But why not take it further? What about no solvents at all? What about just grinding things up, as chemists used to do?

“Green chemistry is driven by innovation, not regulation. Environmental laws are increasing all the time and industry is continually tweaking its production techniques to stay within the law. Green chemistry is ahead of the law.

“At first, industry was not impressed by the concept. But very quickly, it turned around. Why wouldn’t you want to embrace the practice if it’s going to save you money as well as work towards environmental sustainability?” Professor Raston asked.

“It’s such an obvious shift in focus. And I think green chemistry will come down to a moral obligation to undertake scientific work in the safest, cleanest, most sustainable way we can. I think, in time, it will also become a legal obligation.”

Professor Raston outlined the diverse areas of research and industry that are already or will become part of the green chemistry revolution.

“We can make chemicals from biomass, which shuts down the science industry’s wasteful use of oil and coal and shifts the focus to agriculture and forestry, to supply that biomass.

“Developments with these new chemicals will have a profound effect on the pharmaceutical industry, the mining industry, even the clothing industry (we can make one of the key components of nylon with biomass!).

“There are social, legal, management and education issues all involved with green chemistry. Health care products and medicines, aspects of engineering and physics, will all feel the shift in direction, away from toxicity, towards sustainability,” he said.

Professor Raston said some scientists see green chemistry imposing a limitation on their research.

“But if they apply the principles, their innovation will increase, they will have a better chance of getting their work published in higher impact factor journals and their students will love it.”

He sees the tenets of green chemistry being introduced incrementally throughout science and industry. “Any sudden big change would not be sustainable, and sustainability is what it’s all about, both at the molecular level, in basic research, and in applied research for industry.”
The final chapter in the discovery of Australia’s three billion year tectonic history is in good hands.

Professor Peter Cawood has been seconded from Curtin University as Director of the Tectonics Special Research Centre (TSRC), to see that the final two-and-a-half years research complete the mandate of the centre.

The TSRC’s mission is to discover the supercontinents of which Australia has been a part in the past three billion years and the processes that formed them.

Professor Cawood has been Head of the Curtin node of the Centre since it was set up nearly seven years ago by the late Professor Chris Powell. Since Professor Powell’s sudden death two years ago, Professor John Dodson has been in the director’s chair.

“John Dodson did a fantastic job and now I plan to focus the Centre for its final synthesis phase,” he said.

The TSRC has had three consecutive three-year Australian Research Council (ARC) grants and, at the end of 2005, the Centre will have to find new funding.

“The earth sciences haven’t had a lot of support from the Federal government recently, as it concentrated on nanotechnology, computer science and other priorities.

“But I was at an ARC conference in Canberra recently which was looking at the future directions for research in Australia, and work in the mineral resource sector was cited as a priority, so I’m hoping the TSRC can help develop a successful local and international geoscience partnership for Centre of Excellence funding, as well as from other possible sources,” Professor Cawood said.

“What happens in the next six months is crucial. I would like to see the other centre in this area, the Centre for Global Metallogeny, and the TSRC working together. Obviously the centres have different focuses but there are underlying themes there and I think the best way forward for all of us is together.”

As Director of the John de Laeter Centre for Mass Spectrometry at Curtin, Professor Cawood is experienced in overseeing collaborative work between institutions. He is enthusiastic about bringing the research of the entire TSRC team (including the Institute for Geophysics at the University of Texas, Austin, as well nodes at Yale and Harvard Universities) together for the final synthesis.

One of the objectives of the TSRC was the establishment of the Apparent Polar Wander Paths (APWP) of the major Precambrian blocks of Australia and formerly adjoining regions to determine their amalgamation and dispersal history. One of the goals for the end of 2005 is a review and synthesis of these APWPs.

Other goals are the production of an interpretive computer-generated set of paleogeographic maps of the Earth from 3,000 million years ago to the present; evaluation of whether there were any supercontinents in the late Archean and early Paleoproterozoic periods; evaluation of the hypothesis that supercontinents form regularly on an approximate 400 million year cycle; and a synthesis of the tectonic evolution of the supercontinents of which Australia has been a part since the late Archean period.

The TRSC is the world centre for knowledge of configurations of the Earth’s continents and oceans over the past three billion years.

Its research is increasing the knowledge and understanding of how the Australian continent formed; it is generating a body of information useful to the mineral and petroleum resources industries; and enhancing the Australian scientific base through international collaboration.

Like his predecessor, Professor Cawood is a fast-talking enthusiast with a genuine passion for tectonics and the unique work of the centre. After 11 years in Canada, he returned to Australia about nine years ago and was surprised at the lack of geological collaboration between UWA and Curtin.

“But Chris soon remedied that by setting up the centre and asking me if I’d like to be part of it. His enthusiasm was always greatly appreciated,” he said.
THE UNIVERSITY OF WESTERN AUSTRALIA • 11 AUGUST 2003

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Any student or conference delegate who has washed her face in the basin in her room at St Catherine’s College has Lady Monica Prescott to thank.

It was Lady Monica who noted that, unlike their English counterparts, women's colleges in Australia did not have washbasins in the bedrooms. When it was suggested that a new wing at St Catherine’s might be named the Prescott Wing, Lady Monica agreed, but on condition that each bedroom have its own washbasin.

Lady Monica, widow of former Vice-Chancellor Sir Stanley Prescott, has recently been made an honorary Fellow of the College, recognising her significant contribution to St Catherine’s.

Of course, it wasn’t just on washbasins that Lady Monica left her mark. When she and Sir Stanley arrived in Perth in 1953 there was no separate women’s college at UWA. Female residential students were housed in inadequate former WWII military quarters.

Lady Monica, who had fond memories of college life while studying medicine at Manchester University, immediately joined the Women’s College Council and the Women’s College Fund Committee and invited them to meet at Tuart House (now the Perth Festival office but, at that time, the home of the Vice-Chancellor), from where they planned and raised funds until St Catherine’s was completed in February 1960.

She took an active role in fund-raising activities and served as a member of College Council from 1954 to 1970 and as its chair for five years.

Even after retiring from her official role with the College, Lady Monica retained a great love for and interest in St Catherine’s. This was enhanced by having a daughter, daughter-in-law and granddaughter as members of the College.

Head of St Catherine’s, Yvonne Rate, described Lady Monica as a healthy energetic 90-year-old who says her secret is that she skips every day.

College honours a founder…

… loses a leader

Newly-appointed Fellow of St Catherine’s College, Lady Monica Prescott (front) with granddaughter Dr Susan Prescott (UWA Professor of Paediatrics and Child Health), daughter Helen Silver and daughter-in-law Valerie Prescott, all of whom lived at St Catherine’s.

Other Fellows of the College appointed this year are Dr Carmen Lawrence MP, Sue Boyd, Reverend Angela Webb, Barbara Hale and Clinical Professor Lesley Cala.

Ms Rate, who announced the fellowships as part of the College’s 75th anniversary celebrations, also announced that she was leaving St Catherine’s after 10 years at the helm.

She has been appointed Principal of The Women’s College at the University of Sydney and will leave UWA on October 17.

“The past 10 years have been very fulfilling and I have enjoyed the opportunity to work with such talented people, including the members of council, tutors, staff and students,” Ms Rate said.

“I will leave with many happy memories of St Catherine’s and look forward to the challenges that a larger college will present.”

When Mark Altus moved from his Treasury office to UWA’s office of Finance and Resources last week, it was rather like a homecoming.

Mr Altus, who has been seconded from the State Treasury for six months, is a graduate of UWA and has a long association with the University Athletics Club, recently helping them to celebrate their 25th anniversary at University House.

He will take over the position of Executive Director, Finance and Resources, vacated by Martin Griffith, until a permanent replacement is found.

At the Treasury, Mr Altus is director of intergovernmental relations. In his 20 years there, he has also been director of economic and revenue policy, and did a brief stint as acting executive director of the economic business unit, overseeing revenue policy.
New students starting in the second semester appreciated the warm welcome from their mentors on a very cold day, as they met for the first time at the UWA Boat Shed recently.

Most of the 86 first year students took advantage of the Uni Mentor Scheme co-ordinated by Student Services, which matches new students with trained mentors who are more senior students in the same faculty.

Many of the mentors said they had offered their services because they liked helping people, they remembered how bewildering their first few weeks on campus had been and how much they had appreciated their mentors.

Some of their relationships carry on for many months, even years, as the pairs become firm friends. Some have contact only for the first few weeks. But most students agreed that it was still good to bump into their partners around the campus and remember their special relationships, no matter how brief.

Mentors Karen Le Blanc Smith (Fine Arts), Melissa Williams (Commerce) and Steve Hall (Architecture) all said they felt it was important for everybody to be involved in volunteer work.

Their partners had different reasons for starting their university studies in second semester. Eugene Lee (Economics) said he had just finished two-and-a-half years National Service in Singapore; Eric Sim (Architecture) said he had had worked during first semester to earn money to support himself at university; and Alicia Law (Fine Arts) said she had not been able to get here earlier in the year from Malaysia.

Leonie Peterson, co-ordinator of the scheme, said she was always most appreciative of the efforts of the volunteer mentors.

Braving the balcony at the Boat Shed: (back row, from left) Mentor Melissa Williams with her partner Eugene Lee; Alicia Law with her mentor Karen Le Blanc Smith; and (front) Eric Sim and Pascaline Owers with their mentor Steve Hall.

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**Be seen to be green**

*Unigreen, UWA’s own Environmental Services, has a recommended energy management plan. Here are some guidelines to help staff:

**Photocopiers**
- Minimise paper use by E-mail and circulation lists
- Use double-sided copying and reduce whenever possible
- Copy in batches when possible
- Ensure staff are trained to use energy and paper saving features

**Office Equipment**
- All office equipment purchased should where possible:
  - Use minimum packaging
  - Be manufactured from recycled materials
  - Be designed for easy disassembly, with components marked for recycling
  - Have long-life consumable components
  - Have the capacity to use recycled paper reliably
  - Have support from the seller for recycling of materials used, and the product itself when it is due for replacement

**Power**
- Purchase Laser printers rather than slow inkjet models
- Activate sleep mode on computers where possible
- Purchase power cycled computers for laboratories
- Conduct experiments which require power before 9am or after 3pm (9am to 3pm is peak period for power use on campus and the University is charged at a higher rate between these hours)
- Switch off printers, photocopiers when leaving the building
- Switch computer and monitor off when leaving the building
- When leaving the computer for more than an hour, switch off monitor
- Ensure computer power saving functions are operational

**Lighting**
- Switch off all lights after lectures or when leaving the building at night or for more than one hour
- Ensure recommended energy-efficient lighting fittings are used to replace existing fittings. Check with Facilities Management
- Report unnecessary lighting to the Security Office on extension 3020
A fresh start in second year

UWA Albany students have what could be described as an intimate introduction to tertiary education.

The Albany Centre is a very small close-knit community and the progression to the Crawley campus in second year comes as a bit of a shock for some students.

To reduce that shock, the Centre has just introduced a two-day orientation program for first years. A dozen first year students came up from Albany recently to get a taste of the big campus.

Dr Beverley McNamara, one of the lecturers who regularly visits her students in Albany, said some people didn’t realise that Albany students made the change from their small campus up to Perth at the beginning of second year.

As second year students, they would not normally get the benefit of the orientation activities offered to commencing first year students.

During their two day program, the students were assigned mentors, introduced to the library, learned about Student Services, taken on a tour of the campus, and met Guild officers and found out about Guild activities and clubs.

They had the opportunity of attending their usual lectures if they fell on the days they were on campus.

For most of the students, it was their first visit to UWA’s main campus and they said they appreciated the opportunity of getting to know the place before they started studies here next year.

A major cultural exchange and reconciliation project at the WA Maritime Museum is designed to highlight and help to heal the losses experienced by Aboriginal people.

UWA staff and students have taken part in the Human Terrain Studio, part of Gnyung Waart Kooling Kulark – Released: Going Home.

Tjalaminu Mia, research fellow in oral history and the arts with the School of Indigenous Studies, has co-ordinated an art exhibition, the launch of Nyoongar poet Graeme Dixon’s latest work and a social justice forum focussing on incarceration, reform and freedom.

The Human Terrain Studio, a cross-cultural design project, has involved environmental design students supported by UWA cross-disciplinary staff Jill Milroy (Indigenous Studies) Grant Revell and Richard Coldicutt (Architecture, Landscape and Visual Arts). The design unit collaborated with Nyoongar leaders Len Collard, Will Yarran and Clarrie Isaacs, chair of the Rottnest Island Deaths Group Aboriginal Corporation.

They studied the history of the native prison on Wadjemup (Rottnest) between 1831 and 1931. The students investigated the Indigenous and non-Indigenous identities associated with the prison and modelled some of their stories into small bronze art pieces.

Seen as a significant reconciliatory and cultural healing art piece, the collection is part of the exhibition at the Maritime Museum until August 24.

Aboriginal visual and literary artists, civil and human rights campaigners and community leaders have contributed their works of art and oral histories to the exhibition and the comprehensive catalogue.

Tjalaminu Mia has drawn together historical archival photographs, contemporary paintings, sculpture and electronic media works, as part of the School of Indigenous Studies’ program for leading Aboriginal contemporary cultural and reconciliation projects.

The social justice forum at the museum on August 13 will feature Social Justice Commissioner Bill Jonas, who was brought from Canberra to take part. Also on the panel are Carol Martin, MLA for Kimberley, Clarrie Isaacs, visual artist Julie Dowling, parole board adviser Joan Winch and author Graeme Dixon.

The launch of Graeme Dixon’s book of poetry, Holocaust Island: Killing Time, is also on August 13. Like the centrepiece of the exhibition, the book focuses on Wadjemup or Rottnest Island and contrasts the Aboriginal prison with the holiday playground it is today. But he also writes about his Indigenous heroes including Charlie Perkins, Cathy Freeman and Rob Riley.

“I hope my stories help a little in breaking down the wall surrounding the conspiracy of silence that has played a big part in keeping Indigenous effort, achievement and survival secret,” he writes.
Aussie champions how do we do it?

How has a relatively small country achieved so much in international sport?

Over the past few years, Australian men and women have been acclaimed as world champions in sports as diverse as archery, athletics, boxing, cricket, cycling, equestrianism, golf, hockey, netball, rowing, rugby, shooting, squash, surfing and tennis.

Following Australia’s fourth placing in the medal count at the 2000 Sydney Olympic Games and first place in the Paralympics, Australians went on to win 39 team and individual world championships in 2001.

Australia’s Sporting Success: The Inside Story answers the question “How did we do it?” It is a new book by Emeritus Professor John Bloomfield, from the School of Human Movement and Exercise Science.

Professor Bloomfield became aware of elite sports coaching systems while lecturing in Europe in the 1960s. On his return to Australia, he lobbied both State and Federal governments for the development of a professional sports system and, when that opportunity arose, he was one of the primary architects of the hugely successful Australian sports system, that, after 30 years, is consistently producing champions.

The book is a definitive social history that addresses issues not previously dealt with by other sports writers.

Australia’s Sporting Success: The Inside Story was launched at UWA with the notable absence of its author. Professor Bloomfield was in hospital with serious injuries from an accident. But he is on the mend, having been reminded first-hand of the disappointment so often suffered by elite sportsmen and women when they are forced by injury to miss an important meet!

It is published by University of New South Wales Press and is available at the Co-op Bookshop.

A Chair in a rural seat

The Head of UWA’s Rural Clinical School has been appointed the first Chair of Rural and Remote Medicine in Australia.

Professor Campbell Murdoch’s title is now Professor of Rural and Remote Medicine and Head, Rural Clinical School.

“With rural health such an important issue in Australia today, it is significant that UWA has seen fit to create the first Chair in the discipline,” Professor Murdoch said. “I think it could be the first time the discipline has had a Chair associated with it anywhere in the world, and it confirms UWA’s commitment to rural and remote medicine.

“The Australian College of Rural and Remote Medicine has applied to the Australian Medical Council for this discipline to be considered as a medical speciality, distinct from general practice,” he said.

Professor Murdoch is based in Kalgoorlie, providing both an academic school in a rural area and rural experience for students in private practices and regional hospitals.

A spot to sit and remember

Almost a year to the day since senior physics technician Allan Gorham died, his colleagues dedicated a memorial to him outside the physics building.

It is an elegant garden bench with Allan’s name engraved on it, situated at the edge of the path, overlooking the Great Court: a perfect place for quiet contemplation and remembering the man who is still held in such high regard by his colleagues.

Allan’s fellow technical officer John Budge and senior teaching technician Lance Maschmedt came up with the idea of a memorial seat, which was immediately given the stamp of approval by Head of School Dr Ian McArthur.

Donations started flowing in from staff, former staff, students and graduates, all who felt that Allan had touched their lives. They quickly raised nearly $2000. After paying for the bench, leftover funds went towards an afternoon tea enjoyed by everybody in Physics after the dedication.

John Budge arranged for musicians to add a touch of style to the ceremony, at which many staff and students publicly paid their respects to Allan, who had worked in the School for nearly 40 years, playing a significant role in upgrading teaching laboratories and contributing his talents to countless research projects.
Employment consultant Shirley Russell (left) and Extension director Kim Roberts welcome new employees Natasha Grigoletto, Georgie George and Emma Stromback. At the back is their support officer, Bev Cahill with Population Health staff Marg Yull and Caroline Harte.

"If the Premier or the Prime Minister wants to go further with employment of people with disabilities, they should come to UWA and see how it’s done!" Shirley Russell, managing co-ordinator of South Metropolitan Personnel, says the University is doing a brilliant job through its Workforce Diversity Strategy and should be held up as a role model for the rest of the country.

She has recently co-ordinated the employment of three more part-time administrative assistants by the University. The three women will work half a day a week for UWA Extension and half a day for the School of Population Health.

Population Health’s School Manager, Marjorie Caw, said the three had already had a positive impact on the school. "They offer staff and students at the School an opportunity for growth and a real experience of diversity. And the three new assistants all love coming to work and getting their payslips," she said.

Georgie George, Natasha Grigoletto and Emma Stromback are happy helping out with administrative assistant tasks, with the support of trained employment officer, Bev Cahill, who is also supporting three part-time staff in the Faculty of Life and Physical Sciences.

Their assistance is very cost-effective and frees up the time of more senior staff which they can then devote to other areas.

Shirley Russell said it was exciting to see how well these arrangements worked in an academic institution.

"The University will be nominating again for the Prime Minister’s Employer of the Year Award," she said. UWA won the national award for higher education institutions in 2002 for offering real jobs with real career paths to people with disabilities.

Beverley Hill, Manager, Equity and Diversity, said the UWA Workforce Diversity Strategy demonstrated that intellectual, psychiatric or sensory disabilities need not be a barrier to a successful and productive working life.

If staff in other areas of the University would like to implement the Diversity program, please contact Malcolm Fialho in the Equity and Diversity Office on extension 2252.

The activities of the Academic Board can seem arcane and remote to those not taking part in its epic meetings. The Board is the University’s central decision-making body on academic matters, so its resolutions have important consequences, for everyone at the University, academic and general staff alike.

Academic Board meets quarterly to deal with the major issues; in other months academic matters are dealt with by Academic Council. I plan to report to the University community every few months on the issues we’ve been dealing with but would be happy to receive questions or comments about the Board at any time.

The two main issues discussed at the June meeting of Academic Board were the devolution of most postgraduate research scholarships to faculties and the Federal Government’s proposed changes to higher education.

The first of these was resolved by Academic Council in April. Academic Council is the Executive Committee of Academic Board and one important provision in the Constitution of Academic Council allows for ten members to request a matter resolved by Council to be taken to Academic Board. This option was taken up in relation to the allocation of postgraduate research scholarships which to date has been decided by the central Scholarships Committee. Council’s resolution would see twelve scholarships decided in this way but other postgraduate research scholarships (apart from some named scholarships) devolved to faculties for allocation, with the Scholarships Committee maintaining a watchful brief on these allocations.

The issue occasioned, in my view, an excellent debate at Academic Board, including consideration of equity, the purpose of scholarships, and their place in overall University planning. I believe that both sides of the debate had the same ends in mind; differences lay entirely in views on the best way to achieve those ends. This debate provided a demonstration of the purpose and value of Academic Board.

The Board resolved to endorse the decision of Academic Council. The Working Party on Postgraduate Research Study has been asked to comment on possible formulas to use in devolving these scholarships to faculties, and this matter will be brought to Academic Board later in the year.

Deputy Vice-Chancellor, Professor Alan Robson, highlighted some key points in the Federal Government’s proposed changes to higher education and their implications for UWA and the President of the Student Guild, Myra Robinson, provided a students’ perspective. The proposals have now been referred to a committee of enquiry by the Federal Senate, and there will be further occasions on campus for discussion of this issue before any elements become law. The proposals represent the greatest changes for Universities since the 1989 Dawkins reforms.

Professor Dennis Haskell
(dhaskell@admin.uwa.edu.au)
You've probably gazed at the aeroplanes flying around Perth on a beautifully clear day, and said “I'd love to be up in one of those".

Or you've cycled past the airstrip at Rottnest, and thought “What a cool way to arrive – with no waiting for the ferry!” And you'd be right.

But you probably dismissed flying as being elitist, expensive and just ‘too hard for someone like me’. Don't you need to have the bank balance of Dick Smith, or the tenacity of Amy Johnson to be a pilot? Well, you'd be wrong on all counts!

The University Flying Club (UFC) based at Jandakot airport is Western Australia's second oldest flying club, and has been encouraging University students, staff and alumni to learn to fly since 1964. Owning two aircraft, the Club's aim is to provide flying instruction at the lowest possible rate. It takes a minimum of 45 hours to gain your Private Pilot's Licence (PPL), and once you've got your 'wings', the licence is valid for life – or at least, as long as you're fit enough to pass the medical.

Andrew Beveridge, Secretary of UFC, gained his PPL in February 2003 and now takes great delight in taking friends up for an aerial tour of Perth and the surrounding countryside.

"It took me about 55 hours to get my PPL, and I spread the cost over a year to keep it affordable. The club has a really friendly atmosphere and learning to fly was a lot of fun. Now I've got my licence, I can hire one of the club's aircraft and nip over to Rotto for lunch. Trips to Coral Bay, Albany and Margaret River are all on the agenda, and when you're cruising at 200km/hr it's amazing how quickly the world slips by."

UFC is extremely fortunate that the club's patron, Janet Holmes à Court, is an aviation enthusiast, and generously donates an annual flying scholarship that enables a club member and undergraduate to learn to fly free of charge. Club treasurer Craig Earnshaw was the most recent recipient, and gained his PPL in June 2003:

"Winning the Robert Holmes à Court Scholarship took more than a little persistence, but my third application in 2002 certainly made it worthwhile! I had already done some flight training with the University Flying Club in early 2002. However, being a cash-strapped full-time student, without the scholarship it would have taken me ages to complete my Private Pilot's Licence," said Craig.

"But I was soon flying every week with Jim Sturrock, an enthusiastic and skilled flying instructor. I have now completed my PPL and am enjoying the shrinking effect that air travel has on the distances of this State, including the freedom of being able to fly whenever I have the chance. Scholarship or no scholarship, flying simply is a challenge too satisfying and too much fun to ignore. This is heightened by involvement with a club like UFC where others of the same interest and enthusiasm for flying are a great part of the experience."

Membership of UFC costs $33 per year for students and $44 per year for staff, graduates and alumni of any university. The Club is keen to encourage new members to have a go at learning to fly, and our web site www.uniflying.org provides information on how much it costs, including photos of the aircraft and details of some of the social events organised by the Club.

Andrew adds: "For anyone interested in finding out more, I'm happy to meet up for a coffee at Jandakot, show you the aircraft and answer all your questions. It can appear quite confusing at first, and having someone to talk to is often the best way of handling any questions. If I'm planning to go flying and there's a spare seat, I might even take you up! Alternatively, have a wander down to Minovation, the flying school at Jandakot where our aircraft are based. One of their friendly staff will be able to explain all you need to know."

So what are you waiting for? Dust off those flying goggles, slip on your cool leather jacket and before you know it, you'll be shouting “Chocks Away”!
I have a reputation in the International Centre for leaving town at critical moments. I was in the Singapore departure lounge when the first plane struck on September 11; and I learned of the Bali bombing in the Perth international departure lounge en route to the Middle East. Nobody in the Centre was surprised that the war in Iraq was declared a few days before I left for a three-month stint in London. And I well remember my last words to Garry Hendy, “Go East, China, Hong Kong, Korea and Taiwan are far from the conflict.” A week or so later we learnt what SARS stands for!

Now four months later, the Iraq war (but not the aftermath) and SARS have been and gone, but what legacy have they left behind?

The immediate effect for us of the war in Iraq was the prevention of travel to the Middle East and subsequent cancellation of marketing activities in that region. Fortunately the role played by Australia in that conflict seemed to go largely unremarked in the world press. Marketing is about to resume and already a small cohort of students from the Gulf countries has begun at UWA, possibly the fore-runners of many more as the difficulties created by the US policy on admitting students from Muslim countries has its effect. Rising visa costs and tuition fees in the US, and the effects of the imposition of SEVIS (Student Exchange and Visitor Information System) will inevitably reduce the attractiveness of that country for international students - for example, visa applications by Arab and Muslim men (and anyone whose purpose visiting the US relates to science) must be reviewed in Washington, with inevitable delays and increasing denials. Rightly this is of major concern to international educators in the US who fear the loss of goodwill for that country from the exchanges which have brought millions of foreign students and scholars into contact with America and Americans.

Similarly the effects of SARS, while dramatic at the time, seem to have largely abated. We watched Singapore most closely, as the largest source of international students for UWA, but despite SARS and record unemployment, the numbers of Singaporean students enrolling this semester has again increased compared to last year, with notable interest in the new Communications Studies course. However, the closure of the Singapore Polytechnics for several weeks has delayed the consideration of this group of potential students until next February.

For China, a major consequence of SARS was the temporary closure of centres providing the English language tests necessary for student visas, and while the timing of this had little effect on direct entry of students to Australian universities, the effect on feeder routes, such as Foundation Programs, may be felt in the longer term.

The International Centre responded positively to these challenges however. In May a conference was held on campus for representatives from South East Asia, who were brought to the campus to learn more about the University’s courses, admission procedures and facilities. An independent report prepared by Margaret Williams, a previous Prospective Students Officer, highlighted the success of this event for both the representatives and faculty staff who willingly participated.

A less prominent challenge to our international efforts in recent months has been the strengthening of our dollar against major world currencies. While there is little evidence of price sensitivity in our educational markets, our competitive position must be eroded to some extent. Nevertheless, the numbers of US and other students undertaking study abroad programs have remained steady this semester with an overall increase on last year. At the same time we hope that more UWA students will be encouraged to study overseas on exchange programs.

And what was I doing during this period! While Dr Mike Partis was directing the Centre with his usual competence and charm, I was meeting the challenges of SARS and terrorism for a university in the heart of London, an altogether different experience from UWA. While the other challenges of daily tube travel, finding good coffee and value wine, and unwieldy bureaucracy were irritants, bringing a dose of Australian directness was refreshing and surprisingly well-received. If the opportunity should arise for a similar experience I can assure you of a challenging and rewarding experience, but check with your financial adviser first! And the coffee at Monmouths in Covent Garden is particularly good …
Teaching Internship Scheme for 2004

CALL FOR APPLICATIONS

The Teaching and Learning Committee supports a Teaching Internship Scheme for promising doctoral research students to develop teaching skills in their field and to undertake a programme of professional development activities during the course of their PhD candidature.

Guidelines and a pro forma for the Teaching Internship Scheme are on the web at: http://www.teachingandlearning.uwa.edu.au/tl/committee/awardsschemes/tis

The Teaching Internship Scheme promotes and facilitates teaching and learning in the University in a number of ways. For example, the scheme—

- directly promotes learning on the part of the interns themselves. The focus of their professional development programme is to learn about teaching so that they are well prepared for a career as an academic;
- contributes significantly to enhanced quality of teaching within UWA, or other institutions where these interns obtain subsequent employment;
- renders teaching as an activity which is professional and collective, and subject to ongoing evaluation, rather than as hidden and individualistic;
- has a ripple effect, whereby the interns are described as ‘lighthouses’ bringing with them newly developed insights, enthusiasm and pedagogical awareness to staff within their home disciplines;
- promotes reflection among experienced staff who act as Internship Supervisors;
- promotes the value of organised staff development and research into teaching.

The scheme offers in 2004, twelve (12) internships, each of which include a teaching component in the region of $3500 and a professional development component costed at $2410.

The deadline for submissions is Friday 26 September 2003.

Enquiries should be directed to Mrs Sue Smurthwaite, Executive Officer of the Teaching and Learning Committee on ext. 2459 or email: ssmurthwaite@admin.uwa.edu.au.
**Tuesday 12 August**

**MARINE SCIENCE AND ENGINEERING SEMINAR**

‘The effect of recreational fishing on targeted fish and trophic structure in a coral reef marine park’, Mark Westera, School of Natural Sciences, Edith Cowan University. 4pm, Room 119, School of Water Research Building.

**INSTITUTE OF ADVANCED STUDIES POSTGRADUATE SESSION**

You are invited to a lunchtime session (12.30 to 2pm) with Dr Leigh Dale, Programme Director, Contemporary Studies Programme, Arts, University of Queensland, and editor of the journal of Australian Literary Studies. It is a practical session for postgraduates (and recent graduates) to assist with the perils and pleasures of publication. Leigh will pose and address the following questions: What do editors look for? What can you do to maximise the chances of success in publication? What are the mechanics of production (what to expect in the refereeing, editing, copy-editing and proofing processes)? Students are invited from across all disciplines. Contact Milka Bukilic at IAS at mbukilic@admin.uwa.edu.au or phone ext. 1340 if you are interested in attending. Lunch is offered at the commencement of the session so registration is essential.

**Thursday 14 August**

**INSTITUTE OF ADVANCED STUDIES**

You are invited to a seminar by IAS visiting scholar Dr Emile Yeooh Kok Kheng, Department of Analytical Economics, University of Malaya: ‘Ethnic diversity and campus life in an ethnic democracy’. The seminar will begin with a closer look at the definition and measurement of ethnic diversity, before proceeding to focus on ethnic relations, interactions and social distance among undergraduates, in the context of a developing country where the political system has evolved from a limited form of consociationalism to an ‘ethnic democracy’. The talk will take an analytical look at the problems and obstacles in the development of a harmonious inter-ethnic environment in the campus microcosm, amidst the challenges and exigencies engendered by the changing politico-economic milieu of the larger society. 1pm, Institute of Advanced Studies Seminar Room, behind the Irwin Street Cricket Pavilion. All welcome.

**CHEMISTRY SEMINAR**

‘The matrix pre-loaded’, Jeff Davis. 5.15pm, Simmonds Lecture Theatre. All welcome to attend. For further information, contact Bob Stick on ext. 3200; rvs@chem.uwa.edu.au.

**Friday 15 August**

**MICROBIOLOGY SEMINAR**

‘Regulatory T cells and mesothelioma’, Demelza Needham; ‘Investigating the role of regulatory T cells in controlling tolerance to myoblast transfer therapy’, Clayton Fragall. 1pm, Microbiology Seminar Room.

**Monday 18 August**

**ASThma and Allergy research institute**

‘Replication competent adenoviruses in cancer therapy’, Dr Brett Dix, School of Pharmacy, Curtin University of Technology. 12.30pm, Joske Seminar Room, Medicine, Fourth Floor, G Block, SCGH.

**Friday 22 August**

**CLIMA SEMINAR**

‘The role of alkaloids in lupin resistance to aphids’, Dr James Ridsdall Smith. 4pm, CLIMA Seminar Room.

**Saturday 23 August**

**AN AFTERNOON IN BYZANTIUM**

Presented by John Melville-Jones and others for the Adeste Humaniores group, to commemorate the 550th anniversary of the Fall of Constantinople. Readings, slides and Byzantine afternoon tea. 2 to 4.30pm, Murdoch Lecture Theatre. Donation of $15 is requested. Please notify intention to attend on ext. 2164 or 2165.

**Tuesday 26 August**

**PERTH MEDIEVAL AND RENAISSANCE GROUP LUNCHTIME TALK**

Collin O’Brien (formerly of English, UWA) will present a talk on ‘The Old New Fortune and the New Old Globe’. 1pm, Ground Floor Staff Common Room, Arts Building G14.

### Europe and its Racisms

**PUBLIC LECTURE SERIES 2003 PROGRAMME**

Convened by A/Prof Loretta Baldassar, Anthropology and Sociology; Professor Anne Pauwels, Dean of Arts, Humanities and Social Sciences, and Terri-ann White, IAS.

**Held every Wednesday evening at 6pm at GLT**

**Convenor**

Professor Richard Bosworth, History

**Forthcoming lectures in August**

**Wednesday 13th August**

BOB MOORE

Sheffield University

The Netherlands and its racisms

**Wednesday 20th August**

GLENDA SLUGA

University of Sydney

Borders, nations and races in the long twentieth century

**Wednesday 27 August**

MARIANNE HICKS

Postgraduate student, UWA

A journalist observes race in the locust years

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**The University needs your support on Sunday August 31.**

Come and be a part of EXPO, help to promote your faculty and our university. Volunteers needed on campus between 9am and 4pm.
Places are still available in the following workshops:

**Managing Your Career**
- Applying for an Internal Position: Practise in Facing Selection Panels (Administrative Level 5): 5 September, 1.45 to 3.30pm. (Closing date: 15 August)
- Applying for an Internal Position: The Written Application: 10 September, 12-2pm. (Closing date: 20 August).

**Developing Effective Communication Strategies**
- Cross-cultural Communication: 11 September, 9 to 12.30pm. (Closing date: 21 August).
- Giving and Receiving Constructive Feedback: 9 September, 8.30 to 12.30pm. (Closing date: 19 August).
- Advanced Reading Skills: 15, 17 and 19 September, 9 to 12pm. (Closing date: 25 August).

**Making the Most of Committees**
- The Big Picture: 8 September, 9 to 12pm. (Closing date: 18 August).
- School Committees—Ingredients for Success: 15 September, 1 to 4pm. (Closing date: 25 August).

**Selecting the Best**
- Staff Selection for General Staff Panels: 5 September, 9 to 4.30pm. (Closing date: 15 August).

**IT Courses**
- Learning How to Learn IT-Online: 2 September, 10 to 12pm. (Closing date: 12 August).
- A Novice’s Approach to Using Excel: 9 September, 10 to 12pm. (Closing date: 19 August).
- Too Much Email and not Enough Time: Improving Your Outlook: 16 September, 10 to 12pm. (Closing date: 26 August).

**Leading the Way**
- Taking the Lead: 3 September, 9 to 10.30am, 10, 17 and 24 September, 9-1pm, 22 October and 19 November, 9 to 11am. (Closing date: 13 August).
- Introduction to Management: 9, 12, 16 and 19 September, 9 to 1pm, 17 October, 9 to 11am. (Closing date: 19 August).

**At Your Service**
- A Fresh Look at Client Service: 10, 24 September and 17 October, 9-11am and 31 October, 12 to 2pm. (Closing date: 20 August).

**Early Career Researcher Support**
- Applying for Grants: An Overview of Basic Strategies: 11 September, 1 to 2pm. (Closing date: 21 August).

**Developing Research Networks**
- Developing Research Networks—UWA: 11 September, 2.30 to 5pm. (Closing date: 21 August).

**Rasing Researchers**
- Building Effective Research Teams: 3 September, 2 to 5pm, 7 October, 9 to 1pm, 3 November, 2 to 5pm. (Closing date: 13 August).

For further information and registration for these or other workshops, see http://www.csd.uwa.edu.au/programme/ or contact OSDS or on ext. 1504 or by email csdoffice@csd.uwa.edu.au.

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

Rental accommodation Perth Western Australia. 2 bed apartments in Crawley opp. UWA, Nedlands. Peace and privacy, suit academic or prof’l alone/with family. Equipped and fitted ready for you – air con, col. TV, Queen-size bed, phone, full kitchen, all linen and utensils. Off-street parking, on-site manager. Close to UWA, shops, meals and petrol. Many public transport options.

Short-term and longer welcome – personal attention by owners

Enquiries: 0412 953 100 Fax/Msg: (08) 9389 8326
Call for a comparative, obligation free, quote.

Providing short-term, fully furnished accommodation to UWA since 1982.
Research Grants & Contracts
Continued from front page

**MEDICAL AND HEALTH RESEARCH INFRASTRUCTURE FUND**

Dr Robert Patuzzi, Biomedical and Chemical Sciences: ‘MHRIF Round 6, Patuzzi’— $24,643 (2003).

**NHMRC: EQUIPMENT GRANTS**

Prof Donald Robertson, A/Prof Alan Everett, Prof Lynda Beazley, A/Prof Boris Martinac, Dr Wilhelmina Mulders, Dr Livia Hool, Biomedical and Chemical Sciences, Animal Biology and Medicine and Pharmacology: ‘NHMRC Equipment Grant, laser-based micropropette puller and microforge’— $32,731 (2003).


A/Prof Richard Prince, A/Prof Ralph Martins, Prof Peter Thompson and Dr M. A. Kedda, Medicine and Pharmacology, Psychiatry and Clinical Neurosciences: ‘NHMRC Equipment Grant, DNA storing and handling equipment for genotyping studies’— $35,000 (2003).

Prof Geoffrey Stewart, Prof Geoffrey Shellam, Dr Malcolm Lawson, Dr Darryl Knight and Dr Manfred Beilharz, Biomedical and Chemical Sciences and Medicine and Pharmacology: ‘High performance liquid chromatography system’— $70,000 (2003).

A/Prof John Olynky, Dr Deborah Trinder, Dr Jane Allan, A/Prof David Bruce and Prof Timothy Davis, Medicine and Pharmacology: ‘Multifunctional microplate reader and microscope’— $60,000 (2001).

**PARKE DAVIS/PFIZER CVL**

Dr Gursharan Dogra, Dr A. B. Irish and A/Prof Peter Barrett, Medicine and Pharmacology: ‘Kinetic defects in lipoprotein metabolism in patients with renal failure’— $50,000 (2003).

**THE NATIONAL STROKE FOUNDATION**

Dr Marisa Gilles and Ms Julianne Coffin, Primary, Aboriginal and Rural Health Care: ‘National Stroke Unit Program’— $13,127 (2003).

**WESTERN MINING CORPORATION**

Dr William Stone, Earth and Geographical Sciences:— ‘The west musgrave nickel sulphide ore environment and geological setting PhD project agreement’— $36,000 (2003-05).

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**FOR RENT**

**SHENTON PARK**

Small modern 3-bedroom house (ducted air con., heating, bir, all kitchen appliances) with delightful walled garden, secure undercover 2-car park and close to UWA, CSIRO, QEI Medical Centre and major Subiaco hospitals. Ideal for visiting academics, scientists or medics, short or long term. Convenient to Subiaco theatres and restaurants, Kings Park, Lake Jualbup, Shenton Park train station and major bus routes (e.g. 97) and also to excellent hospitals. Bunks and/or cot etc. available for families. Available now, fully furnished from $330/week. Contact Carol Worth 9382 1674, cmworth@bigpond.com, cmworth@cylene.uwa.edu.au.

**NEEDLANDS**

From 24 Aug (5-8 weeks) 2 brm unit, furn. $240pw, unfurn. $158pw. Close UWA. Phone 0422 138 400.

**NEEDLANDS**

Mature person share quiet char. house with owner, n/s, vegtn. $115pw. Phone 0422 138 400.

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**FOR SALE**

**LAW BOOKS**

As new. Reasonably priced. To obtain a complete list please telephone Kathleen on 9346 2577 or email brownk@cylene.uwa.edu.au.

**VOLVO 740GLE**

16 valve, 1989, 240,000kms, champagne gold colour, all electrics, leather seats, central locking etc., regularly serviced and registered until Jan. 04. $6900ono. Phone 0408 936 751.

**WANTED TO RENT**

University professor (plant nutrition) from Berlin, Germany, his wife and 2 young children (3 and 5 years old) are looking for a furnished house/apartment in Perth, preferably close to UWA or in Subiaco, in the period 15 Sept. to 15 Dec. 2003 (approximate dates). Please contact Eckhard George (eckhard.george@staff.hu-berlin.de; tel: +49 33701 78105) or Zed Rengel (zrengel@fnas.uwa.edu.au).

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**Redundant Equipment for Sale**

<table>
<thead>
<tr>
<th>ITEM</th>
<th>PRICE</th>
<th>AGE</th>
<th>COND.</th>
<th>DEPT.</th>
<th>CONTACT</th>
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<tr>
<td>GC HP5890</td>
<td>Offers</td>
<td>15</td>
<td>3</td>
<td>Animal Biol.</td>
<td>John Beesley 2569</td>
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<tr>
<td>Autosampler GC (includes two cassettes)</td>
<td>Offers</td>
<td>15</td>
<td>3</td>
<td>Animal Biol.</td>
<td>John Beesley 2569</td>
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Bids should be accepted by Monday 25 August with schools to have first option.

Schools are reminded that all University equipment available for sale must be advertised in the **UWABASE**. Receipts should be PeopleSoft account coded 490 (computing with barcode), 491 (non-computing with barcode) or 492 (items with no barcode). If equipment has an existing barcode please contact extension 3618/2546 for details.

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

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Have you tried to quit smoking in the past and not been successful? Do you feel that you could quit if you just had the right help and support? Are you interested in trying out a smoking cessation programme that uses scientifically validated treatment strategies?

The Robin Winkler Clinic at UWA is currently seeking people who are keen to quit smoking, to take part in a smoking cessation treatment programme starting on Wednesday 3 September (6-8pm). The group will run for ten weekly sessions, each of a two-hour duration, with a follow-up session in the New Year 2004.

Each session costs $10 however there is a 20% discount if you pay up-front.

If you would like to reserve a place in the smoking cessation group, or would like more information please call the clinic on 9380 2644.

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**WA TOURISM COMMISSION**


**WELLCOME TRUST**

Luborodna Kalaydjieva, UWA Centre for Medical Research: ‘Wellcome Trust Large Equipment Grant, AB1377 DNA analyser’— $73,741 (2003).

**WESTERN ROCK LOBSTER COUNCIL INC.**

A/Prof Neil Drew and Dr F McKenzie, Earth and Geographical Sciences:— ‘The assessment of prospective changes to the social infrastructure as a result of rock lobster industry management initiatives’— $32,000 (2003).