Ben Etherington is a third generation bassoonist.

His life as a musician was pretty well mapped out when, 18 months ago, he was struck with a rare condition, focal embouchure dystonia, which introduced a noticeable tremor to his playing.

With a calmness and maturity beyond his years, the 20-year-old decided to concentrate on his academic studies instead of devoting several hours a day to his music.

“And Plan B worked out,” Ben said. He is the second Western Australian to win the esteemed General Sir John Monash scholarship, a postgraduate award on a par with the Rhodes Scholarships.

“I found I had the ability to transfer a sense of being a performer to my academic work.”

He completed Honours courses in both musicology and English last year and, later this year, he is off to the University of Cambridge to start a Master of Philosophy in English Studies. His chosen course, Criticism and Culture, will allow him to study both music and English units.

He is planning to get more medical advice during this year, in the hope of curing his condition so he can join in the rich musical culture of Cambridge.

Ben said that focal embouchure dystonia was a neurological condition that afflicted less than one per cent of wind instrument players who had related injuries. (Embouchure is the term for the adjustment of a player’s mouth to the mouthpiece of a wind or brass instrument.)

He was playing with the WA Symphony Orchestra, WA Youth Orchestra, and in UWA Music School subscription concerts. Ben had attended master classes with Klaus Thunemann, one of the world’s premier bassoonists, while on a tour of Europe with WAYO. His bassoon playing, coupled with composition, playing the piano and the bass guitar filled his life.

Though he continued to perform and compose, he is now concentrating on restructuring his technique. 
Off to Cambridge...

“I may need to develop a new technique for playing the bassoon. It would be akin to changing hands for a violinist – a huge change,” he said.

But Ben has not sat around feeling sorry for himself. Apart from studying hard and achieving high marks in his academic pursuits, he has been working as a volunteer at the Tom Dadour centre for aged people in Subiaco, and as a tutor in conversational English for Adult Migrant Education Services, where he has helped a lot of refugees with their English.

The Monash scholarship has a community work component, which recognises a student’s efforts in helping others.

After his MPhil, Ben plans to embark on a PhD at Cambridge. “I’d like to study the interactions between music and language, but I’m not sure yet which perspective I’ll take: music’s influence on language or language’s influence on music.”

“I’ll just let whatever experiences I have shape my path,” he said.

Ben is already practised in this philosophy. He allowed his musical performance skills help him to succeed in his studies.

“I found I had the ability to transfer a sense of being a performer to my academic work. I could summon the same intensity that you have in an orchestral performance and put that into a written paper.”

Ben is the son of Professor Norman Etherington, who has the Chair in History at UWA. Professor Etherington also plays the bassoon, as did Ben’s great aunt and uncle and grandparents.

A warning system to alert Indian Ocean rim countries of an impending tsunami was discussed at the recent Indian Ocean Marine Environmental Conference.

Professor Chari Pattiaratchi UWA oceanographer and coordinator of the Marine Science and Engineering Program, convened the week-long meeting of marine scientists, which linked science, engineering and management.

“Setting up a warning system in the Indian Ocean region would be the easy part,” Professor Pattiaratchi said. “But, when the warning sounds, how do you move nearly five million people from coastline of Sri Lanka alone? The system would need to be coupled with an enormous education program.”

He said that as tsunamis were rare occurrences in the Indian Ocean, it could be many decades before another one occurred and people would have forgotten the consequences and be reluctant to move quickly.

“The last big one was caused by Krakatoa erupting in 1883, and nobody in Sri Lanka connected that history with the Boxing Day tsunami. If there had been a warning system, and we had been able to tell these people to move inland, they would not have had any understanding of the seriousness of the wave that was coming,” he said.

Professor Pattiaratchi was in Sri Lanka with his son Nafyn when the tsunami hit. They were travelling to a beach south of Colombo and had stopped for breakfast along the way, which probably saved them.

After breakfast, when they resumed their journey, they found hundreds of distressed people swarming in from the beaches, after the first wave and before the second.

“If we had not stopped for breakfast, we would have been driving along the road which was severely affected by the tsunami and God only knows what would have been the result,” he said.

“I visited the place we stopped and realised how close we had come to being washed away by a 4m wave - the location where I stopped to turn back had been completely washed away - in fact I was there immediately after the first wave and then left before the much larger second wave materialised!”
They returned to Colombo and on the way back, Professor Pattiaratchi was contacted by many people from the government who wanted to know what had happened.

“We got caught in traffic where many people were trying to escape — through panic. At a particular place, we had to avoid a gang of youths brandishing clubs who were hitting cars on the road through anger — this was the most frightening time for me during the whole episode.

“Through various phone calls, I was told to come to the Prime Ministers residence and was given a police escort to do so. I then had to brief the hierarchy of government on what had happened and the possibility of it happening again.”

Western Australia has offered to be the secretariat for the system.

The conference also discussed the ARGO program, a global effort which is placing robots in the ocean at a depth of 2,000 meters, to monitor temperature and salinity changes.

“These robots come to the surface every 10 days and transmit their information to a satellite, and it is put onto the Web,” Professor Pattiaratchi said. “There are 1,500 units so far, with a goal of 3,000 throughout the world’s oceans.

“They build up a picture for us of how the ocean is changing in terms of global warming.”
Setting priorities for the future

Early in February, the Executive team spent two days discussing key directions with the University’s senior managers and administrators as we work towards a new Operational Priorities Plan for 2006–2008.

While our University continues to perform strongly across a range of external and internal measures, there are always areas where we must continue to work to improve our performance.

A number of specific areas have been settled on for priority attention, building on current priorities. I would like to share these with you:

Improving the student experience
• Increasing participation in study abroad programs;
• Improving UWA’s position in the Course Experience Questionnaire; establishing an additional (SURF) evaluation of student satisfaction;
• Increasing the number of scholarships;
• Ensuring flexible delivery of teaching;
• Focusing on outcomes-based education.

Increasing the impact of research
• Undertaking a Research Assessment Exercise;
• Increasing opportunities for commercialisation;
• Seeking new Centres of Excellence;
• Seeking Premier’s Fellowships and Federation Fellowships.

Management of reputation
• Managing strategic relationships;
• Co-ordinating reputation management;
• Focusing on national and international areas.

Increasing income
• Fundraising and Development (Business School, Berndt Museum of Anthropology, scholarships);
• Increasing research income;
• Increasing fee income (particularly international and Masters by coursework);
• Increasing funding from State Government sources (Centres of Excellence, health funding, scholarships);
• Increasing funding from the Federal Government (Competitive funding; Teaching and Learning Performance Fund);
• Managing investments.

New Deans
We welcome three new Deans in 2005: Ms Tracey Horton (Business School); Professor Ian Puddey (Faculty of Medicine and Dentistry); and Dr Clarissa Ball (Faculty of Architecture, Landscape and Visual Arts). We also acknowledged the outstanding efforts of their predecessors, Dr Paul McLeod, Professor Lou Landau and Mr Patrick Beale.

Employer of Choice for Women
Staff can also take pride in fact that the University again has been named as a National Employer of Choice for Women (for the third successive year). Only 115 organisations across Australia received this award (four in Western Australia), out of a possible 3,000 who report to the Equal Opportunity for Women in the Workplace Agency annually. The university had to demonstrate comprehensive policies addressing gender equity issues; a strong and visible commitment from executive and management; an inclusive organisational culture; and the delivery of improved outcomes for women.

Alan Robson
Vice-Chancellor

Perth businesswoman Tracey Horton is the new Dean of the Business School.

A graduate from UWA, with first class honours in Economics, Ms Horton went on to Stanford University and completed a Master of Business Administration, with an outstanding academic record.

After an early career as an analyst with the Reserve Bank of Australia, she returned to the United States and worked with an international management consulting firm. Ms Horton came back to Perth in 2000, taking up a range of directorships and business consultancy roles.

Recently, she has been working with UWA to establish the new and broad strategic direction for the Business School.

Announcing her appointment, the Vice-Chancellor, Professor Alan Robson, said that Ms Horton would bring added strength to one of Australia’s leading business schools.

He paid tribute to the work of Dr Paul McLeod who retired as Dean after setting the framework for the new direction of the Business School.
The University’s financial system PeopleSoft version 7.5 is currently being upgraded to version 8.8 with the final transition starting on Wednesday March 9.

The following details the critical dates and times for the upgrade to the new version as well as information on how to access the new version.

**Wednesday March 9 12 noon** - the current system (PeopleSoft version 7.5) will be shut down to begin the process of transferring all the data to the new version. Once this happens, users will no longer be able to access PeopleSoft version 7.5.

**Monday March 14** - the new version will be rolled out to Financial Services staff for data verification purposes.

**Wednesday March 16** - all remaining users will be given access to the new version.

PeopleSoft version 8.8 is a web-enabled system which means you will access it through the web via your browser. To log on to PeopleSoft 8.8 go to the Financial Services website at [http://www.finserv.uwa.edu.au](http://www.finserv.uwa.edu.au) and follow the links. Details of usernames and passwords have been forwarded to all users. If you experience any problems connecting to or signing on to the new version please contact the Financial Services Helpdesk on ex 8777.

Training for the new version has already taken place. If you have missed out on the training please contact the Financial Services Helpdesk on ex 8777 to book in for the next available training session.

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**Annie and Brett Fogarty fund new scholarships**

Annie and Brett Fogarty have two children at high school, but they have pledged a generous amount of money to help other people’s children get a university education.

“It was through our experiences with our own children that we realised the value of a good education and what a difference the best teachers can make,” said Mrs Fogarty, after the announcement of the inaugural UWA Fogarty Foundation Scholarships on campus recently.

The University, in partnership with the Fogarty Foundation, has offered up to ten new scholarships for city and rural school leavers each year. Nine students were chosen this year, and they were presented with their scholarships at the awards and scholarships ceremony last week.

At the launch of the UWA Fogarty Foundation scholarships, the Vice-Chancellor, Professor Alan Robson said the new scholarships were a significant milestone in the University scholarship program.

“Scholarships are very important,” he said. “I wouldn’t have gone to University if I hadn’t won a scholarship. It’s thanks to a very strong spirit of philanthropy, reflected in the generosity of Brett and Annie Fogarty, that students like me can have a tertiary education.

Mrs Fogarty told guests at the launch, which included the winners and their parents, that she hoped there would be, in time a network of scholarship winners throughout the University who could provide guidance for younger students and extend this to high school students as well.

Three UWA Fogarty Foundation Scholarships were awarded to students from rural schools. Their residential fees in a University college will be paid by the scholarship, as well as their HECS contributions and $1,000 a year for books and incidentals.

The six city school leavers will have their HECS contributions paid and will also receive the $1,000 a year.

Details of the winners of these new scholarships and the prestigious Vice Chancellor’s Awards of Distinction will be in the next issue of UWA News.
Jessica Lynch at work at the microarray facility

Quantum leap for genetic research

Several years ago, testing for ‘disease’ genes or genes activated by novel drugs was a slow and laborious task performed on just one gene at a time.

Now, with the completion of the State’s Microarray Facility at the WA Institute of Medical Research (WAIMR) at QEII, WA researchers have the ability to test all the genes of a complex organism simultaneously.

The Director of the Lotterywest State Microarray Facility (LSMAF), Associate Professor Nigel Swanson, says DNA microarray technology represents a quantum leap in the ability of researchers to follow gene expression.

“Microarray technology is a powerful tool in medical research, providing insight into regulatory gene networks and systems biology overview,” A/Professor Swanson said.

The facility is unique in Australia in the range, quality and pricing of its DNA microarray products and services. Moreover, it was the first facility in Australia to see the value in supporting both complementary forms of this exciting technology (Commercial Affymetrix GeneChips and non-commercial, in-house DNA microarray manufacture).

A/Professor Swanson explained that, a few years ago, Lotterywest, which has donated $2 million to the facility, decided to restructure their Medical Research Program from smaller individual equipment grants to larger ‘technology enabling’ grants that could serve the medical research community as a whole, rather than just any one institution.

The first award under this new program was for the implementation of microarray or DNA chip technology (so-called because it has similarities to computer chips), which led to the establishment of the state facility.

“We began with Affymetrix technology but correctly predicted that the expense of these chips would preclude widespread uptake by all researchers (GeneChips are expensive, manufactured in Silicon Valley, USA). The second form of the technology has involved local, in-house manufacture of DNA chips to commercial standards within the LSMAF,” he said.

These chips are then overlaid with materials for testing, which might be from human, animal or plant cells or from those cultured in the presence of novel drugs.

“For example, we can determine whether a drug is working effectively on a cancer cell since microarray shows the degree to which each of the potential human 40,000 genes are turned on, turned off or unaffected by the drug,” A/Professor Swanson said.

He said the technology was based on the principles of miniaturisation, multiplicity and automation. “That translates to robotic manufacture (or printing) of miniscule amounts of synthetic DNA representing specific gene DNA sequences anchored as an array to a solid support such as specialised glass (in-house manufacture) or silica wafer (Affymetrix).

“These chips are then probed by the researcher with fluorescent-labelled RNA (ribonucleic acid) isolated from cells of interest, for example, cancer cells or cells treated with a novel drug.

“The probes are reacted with the DNA chip and comparison made with control samples.

“Local manufacture affords us a considerable reduction in the price of DNA chips, bringing the technology within the grasp of each and every researcher.

“The facility operates piezoelectric (ink jet) technology (unique to the Southern Hemisphere) in a constant temperature/humidity, class 350 clean room. In short we ‘spray’ DNA down in a similar fashion to an ink jet printer,” A/Professor Swanson said.
DNA chips manufactured by LSMAF include those with 20,000 human and 20,000 mouse genes, the only 30,000 human chip made in Australia and 28 different ‘focus’ arrays, which target certain biological themes or processes, including apoptosis, cell signalling, immunology and inflammation.

A strategic partnership has also been established with PerkinElmer Life and Analytical Sciences (Boston). “Their $1 million investment in the Facility has led to significant developments in performance, application and advancement of piezoelectric technology for DNA and protein microarrays,” A/Professor Swanson said.

The School of Medicine and Pharmacology, the Asthma and Allergy Research Institute, and WAIMR have each provided in-kind support. The LSMAF operates under a Memorandum of Understanding between the four public universities in WA, serving as a model for representation of the medical research sector.

“It is tremendous to have this level of support by the community and I acknowledge the generosity of Lotterywest and PerkinElmer ALS as well as the significant contribution of my staff to bringing the Facility to ‘life’ and service,” A/Professor Swanson said.

Perth hosted a national microarray conference late last year from which a new research association, Australasian Microarray and Associated Technologies Association, was incorporated, representing those researchers interested in the use and analysis of DNA and protein microarrays.

To find out more about the facility, visit the Web page, www.LSMAF.org.au

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She jokes that she is the smallest professor at UWA (just 4’11“) and the only one with just one name (“like Madonna”).

But Professor Izan is seriously respected in business education circles. She has recently been elected to the Fellowship of the Academy of Social Sciences.

With a PhD from the Graduate School of Business, University of Chicago, Izan joined UWA in 1981 as a lecturer in the Department of Accounting and Finance. In 1990, she became the first woman to be appointed professor in the disciplines of accounting and finance in Australia. Izan was Head of Department for five years before leaving UWA for a brief period at Murdoch University.

She returned in 2000 and is currently Director of Doctoral Programs for the Graduate School of Management (GSM).

Also highly respected in the business world is Professor Geoff Soutar.

Scholars of stature

Director of the GSM. He has been made an inaugural Fellow of the Australian and New Zealand Marketing Academy, one of just three Fellowships to be conferred at the inauguration of the Academy.

This recognises him as “demonstrating an advanced standing in any or all of the avenues of marketing research, scholarship, education and leadership.”

Professor Roger Smalley, professorial fellow in the School of Music, has also been recognised for his outstanding contribution to his field.

He has been awarded the honour of State Living Treasure for “his outstanding contribution to music as composer, pianist and conductor, his creative engagement with the art form and particularly his contribution to new music in Australia.”

State Living Treasures awards were initiated in 1998 to honour Western Australians creative artists for their lifetime work in arts and culture. That year, 11 remarkable individuals were named. No new names had been added to the list until Professor Smalley and 11 others were presented with their award at Government House last December.

They include ballet dancer Lucette Aldous, poet Fay Zwicky, photographer Richard Woldendorp, author Tom Hungerford, and songwriter and playwright Jimmy Chi.

Professor Stephen Powles, from the School of Plant Biology, has been chosen to advise Canberra on gene technology matters.

The Director of the WA Herbicide Resistance Initiative, Professor Powles was reappointed for a further three years to the Gene Technology Advisory Committee, advising the Gene Technology Regulator, Canberra.

His appointment followed consultation with experts in the field in all states.
For some, it comes naturally. Others work hard at it. One says he’s not concerned about it, but lets it flow from his work.

Teaching. There are as many different styles and opinions as there are teachers. Some are better at it than others. And these academics have been recognised with the University’s annual Excellence in Teaching Awards.

They were announced late last year and the winners will receive their certificates at the appropriate graduation ceremonies later this month, in front of their students (who nominated them) and their peers.

Simon Anderson, from the School of Architecture, Landscape and Visual Arts won one of four individual Excellence in Teaching Awards. Two are awarded in each of two divisions, one for the sciences and one for arts, humanities and social sciences.

Mr Anderson is skeptical about such awards and says that he encourages that philosophy among his students. But at least two of his students have failed to catch on: the two who nominated him for his first teaching award in 15 years at UWA.

“I’m sceptical about the emphasis on teaching. It’s my opinion that we are not here to teach, as such, but to inspire our students and work with them. I think it’s all about being the best we possibly can within our discipline and involving the students in our work, and the learning will flow from that.

“If people want just information, it’s on the Web. Their teachers should provide inspiration and encouragement and leadership.”

Mr Anderson says that, despite his views, he loves teaching and has been getting better at it every year. “The discipline of architecture is like that: you tend to get better as you get older and more experienced.

“The best advice I was ever given was that if I don’t love getting up in the morning and coming to work, I should quit. And that’s what I pass on to my students. If they don’t love what they’re doing, stop doing it.

“I believe very strongly that you can teach better if you’re involved in the discipline. I do a lot of architectural work and my students work with me while they’re studying. Some of them work for me after they’ve graduated too.”

Bonnie Thomas won the other individual teaching award in the humanities, arts and social sciences area.

Dr Thomas had been teaching for just one year at UWA (and one year at Macquarie University before that) when her students nominated her for the award.

“My students feel very comfortable in my classes. They’re not afraid to make mistakes,” Dr Thomas said. “When I was a student, I was quite shy and I appreciated teachers who didn’t put me on the spot and embarrass me. I remember it all very clearly, so I’m conscious of how the students feel.

“I build a good rapport with them, which is easier if you’re working with small groups, as we often do in languages.”

Dr Thomas teaches 11 classes over three units. “It would be quite a heavy load elsewhere in the University, but in languages, it’s normal. We have lots of smaller classes. The biggest group I lecture to is about 36 students.”

Another teacher who still has vivid memories of her experiences as a student is Aviva Freilich, from the Law School, who won the award for excellence in teaching a specific unit, in this case, consumer law to senior students.

“My philosophy is to do as much as you can with your life: you only have one life, so live it! And I extend that to my teaching. I guess you could say the key to my style is enthusiasm. I love what I do: I love teaching and I love the discipline of...
Excellence in Teaching Awards

Aviva Freilich … enthusiasm is the key

law, so if I can convey that to my students, it will go a long way towards a good experience for them,” Mrs Freilich said.

“I always make sure I’m on top of everything before I try to impart it, and I use lots of examples and illustrations, often from my own life, to keep the students interested.”

She said that although some of the groups she teaches comprise about 150 students, she can still make it an intimate experience.

“I don’t stand behind the lectern. I walk around a lot, make a lot of eye contact, ask for suggestions from students. But I’m determined never to embarrass anybody. Once the students know that, it helps everybody to feel they can contribute.

“I feel it’s a privilege, to be entrusted with teaching these young people. You can really have an effect on their lives.”

Jane Heyworth … a holistic approach

“Even the undergraduates bring with them some life experiences that we, as teachers, can learn from and draw on in our teaching.

Ms Heyworth runs Public Health 201 (an introductory unit) and Foundations of Epidemiology, and also teaches Disease Control.

Other winners of excellence in teaching awards are:

A/Professor Barbara Chang from Microbiology, Professor Miranda Grounds from Anatomy and Human Biology, A/Professor Judith Johnston and A/Professor Andrew Lynch, both from English, Communication and Cultural Studies, for Excellence in Postgraduate Research Supervision.

For Excellence in Teaching Small Groups: Caroline Finander from European Studies, A/Professor Michael Gillooly from Law, and A/Professor Raymond Williamson from Dentistry.

Michael Keenan from the information technology unit in the Faculty of Medicine and Dentistry won the IT on-the-job Training Award, while Sheree Lowe from Classics and Ancient History, and Nathan Carson from Student Services won the same award for staff who have no formal responsibility for IT support (but who do it anyway).

Three academic staff were nominated for the 2004 Australian Awards for University Teaching: Dr Tim Colmer from Plant Biology, Dr Andrea Gaynor from History, and A/Professor Jane Long, from English, Communication and Cultural Studies, who was a finalist.
A particular University policy of training young people to be future leaders in their chosen fields does not, surprisingly, apply to the academic students on campus.

It is a policy of Facilities Management (FM) and applies to apprentices learning their trades here.

At the end of last year, FM had 14 apprentices in the building workshop and grounds, working in seven different trades: carpentry, cabinet making, painting, mechanical, plumbing, electrical and horticulture. There was also one apprentice printer at Uniprint.

Five of them completed their apprenticeships at the end of the year, one early this year and another will complete his apprenticeship soon. For the first time the University held a graduation ceremony for them.

Stephen Hall graduated as a cabinetmaker. He built his own home during his five years at UWA.

Natalie McCann is a painter who was recently awarded the Fourth Year Apprentice of the Year from the Housing Industry Association. She is still working on campus, with a company subcontracted by UWA.

Shane Healey started as an apprentice refrigeration mechanic in 2001 but realised he wanted to do electrical work, so took on a double apprenticeship the following year. He has worked at UWA installing split air-conditioning systems, maintaining cool rooms and rewiring the campus reticulations system.

Marcia Scoon completed her apprenticeship in horticulture last month, after starting as a casual grounds worker with the University in 1998, and taking a year off to start a family.

Travis McGlone will also complete his apprenticeship this year with UniPrint. He was shortlisted in the finals of the Lithographic Institute of Australia Apprentice of the Year award, and will continue to work at UniPrint.

Director of FM, Russell Candy, said, at the graduation, that his department at UWA was in a unique situation. “We have the ability to train the apprentices either in-house or with the assistance of an external provider.

“This means we can start apprentices at year one or take on apprentices at other stages of their training.

“Training providers have an understanding of their operations of their field, and have seen the advantages in using the University to move apprentices in and out so they gain a greater understanding of the trade,” he said.

Mr Candy said FM would like to increase the number of apprentices so there were two within each trade on campus.

“With the support of the training providers, we believe this can be achieved. We are also looking at the possibility of offering apprentices to other UWA departments, which once had apprentices of their own, but are now unable to afford them.

“This would be a partnering scheme, with FM taking the overall responsibility for the apprentices, and the school or centre training them in specific areas of the trade, for example physics or engineering.”

Natalie McCann, an Apprentice of the Year, says her interest in painting started with decorating her own room, then helping her father to paint their family home.
The School of Plant Biology always has a hundred per cent turn out for its annual postgraduate students’ summer school — it helps that it’s held over three days on Rottnest Island in early summer.

More than fifty postgrads presented their year’s work to each other and their invited guests at the School’s fifth annual end-of-year seminar.

Stuart Pearse, one of the student organisers, said the Summer School gave the postgrads experience in presenting to a big audience; the opportunity of feedback from their peers, across a very broad discipline; the chance to find out what everybody else in the school was doing; and to hear ideas and criticisms from their invited guests.

“It’s also a great social event, and you can really notice the cultural change around the labs after the Summer School,” Stuart said. “For most of the year, we have our heads down and only really talk to our supervisors and perhaps one or two other people about our work. When we come back from Rottnest, there’s always a friendly atmosphere.”

This year, for the first time, another student, Chris Jones, organised an equity and diversity initiative during the Summer School. “Close to half the postgrads in our School are students from outside Australia,” said Stuart. “And this was a great opportunity to explore cross-cultural issues that affect both the local and the international students.”

Presentations ranged from five to fifteen minutes and covered topics as diverse as the School’s discipline: the preharvest sprouting tolerance of WA wheat; the effect of water deficits on growth and seed yield of lentil genotypes from Asia; microbial clues for ecologically sustainable management of fire-prone landscapes; and the decline in subterranean clover-based pastures in WA.

Nicholas George and Catherine Borger’s presentations were voted the best. “Nick’s was especially good,” Stuart said. “He is looking at oococis and the prospects for domestication and use as a crop for dryland salinity management. His work is all about genetics, but even those of us who know nothing about genetics enjoyed his presentation — he is such a good communicator.”

Catherine Borger’s work focuses on the biology and control of Salsola tragus, commonly known as roly poly or tumbleweed.

The awards were made by the invited guests: Professor Andre Lauchli, Associate Vice-Chancellor for Research at the University of California, Davis; Professor Loren Rieseberg, Department of Biology, Indiana University; and Professor John Boyer, Marine Biochemistry/Biophysics, University of Delaware Graduate College of Marine Studies.

“We always manage to attract very high profile guests to our Summer School, and they provide all of us with some great insights,” Stuart said.

Stuart has won an Endeavour-Australia Cheung Kong award to study in China for six months this year. “The prerequisite for applying is that your research has to achieve something for China,” he said. “I’m looking at the ability of wheat, canola and different lupin and pulse species to utilise phosphorus from soluble and sparingly soluble phosphorus sources. Some of the soils in China are similar to those in Australia, so my research will be relevant in both countries.”

Plant postgrads share results

It wasn’t all work at the Plant Biology Rottnest Summer School
UWAnews has a new look

We are no longer publishing Campus Diary, as these events are now available on the Web at http://events.uwa.edu.au

Instead of the Info Lift-out, we have made the magazine bigger by four pages, and all the information that used to be in the lift-out (except for Campus Diary) is now in the inside back pages.

All notices, classified ads and redundant equipment can now be sent to staffads@uwa.edu.au

Please call Maryvonne Bestel in Public Affairs (6488 1900) or Lindy Brophy, editor UWAnews (6488 2436) if you have any queries.

We hope you like the new look.

RESEARCH GRANTS AND CONTRACTS

NEUROTRAUMA RESEARCH PROGRAM (NRP)
A/Prof D Cooper, Dr Geoffrey Dobb, Dr P Bannon, UWA Centre for Medical Research, Medicine and Pharmacology, External: ‘Multicentre Randomised Trial of Early Decompressive Cranietomy in Severe Traumatic Brain Injury (DECRA)’—$33,800

DEPARTMENT OF PRIMARY INDUSTRIES VICTORIA EX GRDC

NHMRC SUNDRY GRANTS AND WELLCOME TRUST
Dr D Lehmann, Dr Peter Craig Richmond, Prof J Reeder, Prof P G Holt, Institute for Child Health Research, Paediatrics and Child Health, External: ‘Neonatal Immunization with Pneumococcal Conjugate Vaccine in Papua New Guinea’—$1,181,965 (2004-08)

AVON REGION LANDUSE SOLUTIONS
Mr Grant Revell, Architecture & Fine Arts: Dowerin Landscape Study—$2,500

WA DEPARTMENT OF LOCAL GOVERNMENT AND REGIONAL DEVELOPMENT
Mr Grant Revell, Mr P Beale, Architecture & Fine Arts: ‘Kimberley Architecture and Landscape Project’—$13,000

AUSTRALIAN RESEARCH COUNCIL LINKAGE
Dr Timothy William Mazzarol, A/Prof Jillian Carol Sweeney, Prof Geoffrey Norman Soutar, Graduate School of Management, Economics and Commerce: ‘LP0455705 - An Exploration of the Development and Effectiveness of Word-of-Mouth Communication in Financial Services Markets’—$65,000 (2004-06)


ALCOA

US GEOLOGICAL SURVEY
Mr Christopher John Dallimore, Prof Jorg Imberger, Dr Jason Paul Antenucci, Water Research: ‘Simulation Model for Coeur d’Alene Lake’—$21,335 (2004-05)

AUSTRALIAN RESEARCH COUNCIL LINKAGE, GRIFFIN COAL MINING CO LTD, JOINT COALBOARD HEALTH AND SAFETY TRUST AND WESFARMERS
Dr Carolyn Elizabeth Oldham, Prof Gregory Neil Ivey, Water Research: ‘Are Acidic Mine Lakes Usable as Regional Water Resources?’—$450,000 (2004-06)

WATER AUTHORITY OF WA
A/Prof Keith Richard Smettem, Dr Rachel Mary Cardell-Oliver, Water Research, Computer Science & Software Engineering: ‘Gnangara Alliance Program’—$32,500

COMMONWEALTH ATTORNEY-GENERAL’S DEPARTMENT
Mr Francis Hamilton Morgan, Ms Anna Maria Ferrante, Dr Harry Blagg, Crime Research Centre: ‘Researching High Needs Areas for Family Violence in Australia’—$24,090.91

STIRLING PROJECTS
Prof Miranda Deidre Grounds, Anatomy & Human Biology: ‘Effects of salbutamol on ovine skeletal muscle fibre types’—$7,664.7 (2005)

CANCER COUNCIL OF WA
Dr Manfred Werner Beilharz, Biomedical and Chemical Sciences: ‘Regulatory T Cells and Mesothelioma’—$40,000 (2005)

AUSTRALIAN RESEARCH COUNCIL LINKAGE INTERNATIONAL
Prof David Alexander Day, Dr Andrew Harvey Millar, Dr M Garmier, Biomedical and Chemical Sciences, External: ‘Fellowship - The Response of Mitochondria to Oxidative Stress in Plants’—$87,042 (2005)

AUSTRALIAN RESEARCH COUNCIL: DISCOVERY PROJECTS
Prof Mark Arthur Spackman, Biomedical and Chemical Sciences: ‘DP0452357 - Fellowship - Nonlinear Optical Properties of Molecular Crystals’—$615,000 (2004-08)

UWA RESEARCH GRANTS SCHEME
Dr Ian Robert Dadour, Dr Neville Donald Fowkes, Centre for Forensic Science, Mathematics & Statistics: ‘Modelling Temperature Variations in Stationary Vehicles with Forensic Applications’—$12,000 (2005)

AUSTRALIAN SYNCHROTON RESEARCH PROGRAMME
Dr Benjamin Birdsey, Dr James Sullivan, Physics, External: ‘Multiple Photo-Excitation of Light Atoms and Molecules: Measurements of Lifetimes With Fluorescence and Lifetime-Resolved Fluorescence Spectroscopy’—$4,396

CANCER COUNCIL OF WA
Dr Mariapilia Alessandra Degli-Esposti, Ms Sonami Lea Van Dommelen, Mr Daniel Mark Andrews, Dr Christopher Errol Andoniou, Centre for Ophthalmology & Visual Science: ‘Improving Anti-Tumour Responses: Relevance of DC-Mediated Activation of NK Cells’—$10,080 (2005-06)

WA HEALTH PROMOTION FOUNDATION

CURTIN UNIVERSITY
Dr Soumya Ghosh, Faculty of Medicine & Dentistry Office: Development Grant (Curtin)—$15,000

PFIZER PTY LTD
Dr Christopher David Beer, Prof Ian Bruce Puddey, Clin/A/Prof Graeme J Hankey, Prof Mahakan Singh Khangure, Medicine and Pharmacology: ‘Improving Patient Outcome After Acute Ischaemic Stroke. A Placebo-controlled study to Test the Effectiveness of Atorvastatin and Iberasatan in Acute Ischaemic Stroke’—$27,500 (2005)

NATIONAL HEART FOUNDATION
Dr Graeme John Hankey, A/Prof Francesco Maria Van Bockxmeer, Dr Ross Baker, Dr John William Eikelboom, Medicine and Pharmacology, Surgery and Pathology: ‘VITATOPS Study - A Randomised, Double-blind, Placebo-controlled Trial of Vitamins to Prevent Stroke’—$110,000 (2005-06)

PFIZER PTY LTD
Dr Rae-Chi Huang, Medicine and Pharmacology: ‘Project Title: The Genetic Epidemiology and Environmental Risk Factors in Childhood and Adolescence that Impact on Adult Cardiovascular Disease Risk Factors as it Manifests Phenotypically as hypertension, Overweight’—$50,000 (2005)

NHMRC: EQUIPMENT GRANTS
Prof Peter Jeffrey Leedman, Dr Stephen Donald Wilton, Dr Jiake Xu, WA Centre for Medical Research, Surgery and Pathology, Medicine and Pharmacology, Centre for Neurovascular & Neurological Disorders: ‘NHMRC Equipment Grant - Gel Documentation & Analysis System’—$56,580

CANCER COUNCIL OF WA
Prof John Kevin Olynyk, A/Prof George Cheng Yeeh, Dr Belinda Knight, Dr Bu Beng Yeap, Medicine and Pharmacology,
Biomedical and Chemical Sciences, UWA Centre for Medical Research: ‘Investigating The Effectiveness of Anti-Inflammatory Drugs in Preventing the Progression of Chronic Liver Disease to Hepatocellular Carcinoma’—$35,000 (2005-06)

NATIONAL HEART FOUNDATION
Prof Ian Bruce Puddey, Prof Lawrence Joseph Beilin, Dr Anne Eileen Barden, A/Prof Kevin David Croft, Medicine and Pharmacology: ‘Cytochrome P450 Metabolites of Arachidonic Acid and Cardiovascular Function in the Metabolic Syndrome’—$119,401 (2005-06)

AUSTRALIAN & NEW ZEALAND COLLEGE OF ANAESTHETISTS
A/Prof Stephan Alexander Schug, Mr B Jenkins, A/Prof Kenneth Frank Ilett, Medicine and Pharmacology, External: ‘Pharmacokinetics of Sibuglinal Ketamine for Pain Treatment’—$39,840

WA HEALTH PROMOTION FOUNDATION
Dr Sunalene Gnanamirtham Devadason, Prof Peter Neils Le Souef, Ms Joanna Owen, Dr G L Hall, Mr M Swanson, Paediatrics and Child Health, External: ‘Assessment of Cigarette Delivery Incorporating Real Life Situations’—$19,965

NHMRC: EQUIPMENT GRANTS
Dr Sunalene Gnanamirtham Devadason, Mr Peter James Franklin, Dr Stephen Stick, Dr A Kicic, Paediatrics and Child Health, External: ‘HMMRC Equipment Grant - Condensation Monodisperse Aerosol Generator and Monitor’—$33,475 (2005)

CANCER COUNCIL OF WA
Dr David John Ixon, UWA Centre for Child Health Research, Paediatrics and Child Health: ‘Genes that Perturb the DNA to Division and their Signalling Pathways; Relevance to T Cell Leukaemogenesis’—$66,000 (2004-05)

AUSTRALASIAN RAILWAY ASSOCIATION AND MAIN ROADS DEPARTMENT OF WA
Dr Lucia Rina Cercarelli, Population Health: ‘Process Evaluation of the Western Australian Railway Crossing Pilot Community Awareness Program’—$17,020

HEALTH DEPARTMENT OF WA
Dr Lucia Rina Cercarelli, Ms Christine Lila Gillam, Population Health: ‘Western Australian Trauma Registry’—$46,741

UWA RESEARCH GRANTS SCHEME

DEPARTMENT OF HEALTH AND HUMAN SERVICES (TASMANIA)
Dr James Bernard Semmens, Population Health: ‘Investigating The Effectiveness of Anti-Inflammatory Drugs in Preventing the Progression of Chronic Liver Disease to Hepatocellular Carcinoma’—$60,000 (2004-05)

AUSTRALIAN RESEARCH COUNCIL LINKAGE

RURAL INDUSTRIES R&D CORP

CITTINGER VALLEY LAND CONSERVATION DISTRICT COMMITTEE
Dr A W Storey, Animal Biology: ‘Moore River Aquatic Fauna Survey’—$12,088

IRISH RESEARCH COUNCIL FOR SCIENCE, ENGINEERING AND TECHNOLOGY
Prof Lynette Kay Abbott, Earth & Geographical Sciences: ‘A multidisciplinary investigation of the biogeochemical controls on mineral weathering by microbial communities’—$5,500 (2005)

FISHERIES R&D CORPORATION
A/Prof Neil Murray Drew, Mrs Veronica Huddleston, Earth & Geographical Sciences: ‘A Scenario Analysis of the Social Impact of the Western Rock Lobster Industry Management Options on Fleet Housing Communities’—$427,287

AUSTRALIAN RESEARCH COUNCIL LINKAGE AND RIO TINTO EXPLORATION
Dr Steven Gerard Hagemann, Prof Mark Emmerson Barley, Earth & Geographical Sciences: ‘LP0455621 - AP1 - Structural and Hydrothermal Fluid Control of High-Grade (>65 wt% Fe) Hematite Ores in BIF-hosted Iron Deposits in the Hamersley Basin’—$126,518 (2004-07)

CSBP LIMITED

WATER AUTHORITY OF WA
Dr Peter Mostyn Davies, Faculty of Natural and Agricultural Sciences: ‘South West Yarragadee Investigations’—$57,400

RURAL INDUSTRIES R&D CORP
Dr Geoff Stephen Woodall, Faculty of Natural and Agricultural Sciences: ‘Development of New Root Vegetable Crops from Southern WA’s Diverse Tuberosa Flora’—$166,634 (2004-07)

HORTICULTURAL R&D CORPORATION
Dr Louise Barton, Dr Timothy David Colmer, Plant Biology: ‘Kikuyu Turf Research Project’—$685,439 (2004-08)

ALCOA, AUSTRALIAN RESEARCH COUNCIL LINKAGE, GREENING AUSTRALIA AND MINERAL & ENERGY RESEARCH INSTITUTE OF WA
A/Prof David William Turner, Dr K W Dixon, Plant Biology, External: ‘A Physiological and Biochemical Basis for Seed Storage for Biodiversity Conservation and Restoration’—$261,000 (2004-07)

NEW STAFF
Welcome to the new staff who have joined the University since November:

Gail Barrow, Lecturer, Aboriginal Programmes
Johnon Goire, Programmer, Admin Computing Services
Christopher Gorman, Graduate Research Assistant, Anatomy and Human Biology
Dr Rhonda Gifford, Senior Lecturer, Biomedical and Chemical Sciences
Dr Holger Eubel, Research Associate, Biomedical and Chemical Sciences
Dr Charlene Kahler, Senior Lecturer, Biomedical and Chemical Sciences
Dr Suzanne Long, Research Associate, Biomedical and Chemical Sciences
Prof Andries Fourie, Professorial Fellow, Civil and Resource Engineering
Treslyn Hansen, Technical and Course Co-Ordinator, Clinical Training and Education Centre (CTEC)
Lucas Bradstreet, Research Associate, Computer Science and Software Engineering
Dr Paul Johnston, Senior Research Fellow, Computer Science and Software Engineering
Dr Boyen Huang, Senior Lecturer, Dentistry
Dr Alan Crake, Lecturer, Economics and Commerce
Ingeborg Kristoffersen, Associate Lecturer, Economics and Commerce
Dr Farid Bousaid, Lecturer, Electronic and Computer Engineering
Iain Holland, Research Associate, Electrical, Electronic and Computer Engineering
Alexandre Paduch, Research Associate, Electrical, Electronic and Computer Engineering
Shane Etherington, Carpenter, Facilities Management - Maintenance Workshop
Michael Davidson, Security Officer, Facilities Management – Security and Parking
Rhyys Daly, Trainee, Faculty Office - Arts, Humanities and Social Sciences
Michael Hill, Systems Administrator, Faculty Office - Arts, Humanities and Social Sciences
Tracey Horton, Dean, Business School Faculty Office - Business
Jason Berry, Lecturer, Faculty Office - Life and Physical Sciences
Gregory Jennings, Assistant (Technical), Faculty Office - Life and Physical Sciences
Christina Koutroubas, Administrative Officer, Faculty Office - Life and Physical Sciences
Neil Bryan, Administrative Officer, Faculty Office - Medicine and Dentistry
Dimitry Elsbury, Administrative Assistant, Faculty Office - Medicine and Dentistry
Chee Keong Leong, Informatics Team Leader, Faculty Office - Medicine and Dentistry
Lisa Mayer, Administrative Assistant, Faculty Office - Natural and Agricultural Sciences
Cindy Browne, Accounting Officer, Finance and Resources Office
Angeline Lim, Administrative Assistant, Finance and Resources Office
Richard Stals, Learning Management System (LMS) Analyst Programmer, Finance and Resources Office
Belinda Spoule, Accounting Officer, Financial Services
Amy Gaunt, Administrative Officer, Graduate School of Education
Dr Sarah Hopkins, Lecturer, Graduate School of Education
Linley Macpherson-Smith, Lecturer, Graduate School of Management
Ethani Van Blue, Lecturer, Humanities
Dr Tracey Summerville, Lecturer, Law
Dr Col Hicks, Librarian 1, Library
NEW STAFF

Prof Andrew Bassom, Professor, Mathematics and Statistics
Dr Philippa O’Neill, Lecturer, Mechanical Engineering
Michelle Murphy, Research Nurse, Medicine and Pharmacology
Richard Barna, Project Officer, Office of the Registrar
Tessa Herrmann, Administrative Assistant, Office of the Registrar
Janet Renner, Co-ordinator, Office of the Registrar
Dr Alexandra Corbett, Postdoctoral Research Fellow, Ophthalmology and Visual Science
Dr Janez Cernelc, Dentist (Service Registrar), Fellow, Ophthalmology and Visual Science
Janet Renner, Co-Ordinator, Office of the Registrar
Tessa Herrmann, Administrative Assistant, Office of the Registrar
Richard Barna, Project Officer, Office of the Registrar

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FOR SALE

LAPTOP. Digital TS30G Laptop Pi 120, Win95 installed. Unservicable since it’s 10 years old. Asking price is $100. Contact: Ghassan Samhouri Ext1906. Email: gsamhouri@admin.uwa.edu.au

SCOOTER. Yamaha Aerox YQ50 (automatic) 2002, blue. Excellent condition. Dual disk brakes, one owner. Only 4 800km. $3000 ono. Phone Donna 7130 or Mark 9408 0034.

TOYOTA HILUX SURF. $14,300 or nearest cash offer. Licensed 4 wheel drive late model 1993. Burgundy and grey colour with side-steeps and roof-bar. Immobilizer, tow bar, air conditioning and power steering. Contact: Maria # 2195 or Polly # 0401-877-511

KORG MUSIC WORK STATION PX. $3,500 or nearest cash offer. With case, wiring, amplifier and stand. White and grey in colour. In excellent condition. Contact: Maria # 2195 or Polly 0401-877-511

RANGE ROVER. Year: 2002. 4.6 HSE Auto. Metallic Dark Blue. doeskin leather interior. 23,000kms DVD/TV. Immaculate condition. $79,000. Contact: Paul on 0417 900318 or pa.wilson@bigpond.com

LIGHT TABLE: A0 size light table on stand. Excellent condition. Offers over $500. 6488-2150; dkennedy@cyllene.uwa.edu.au

FOR RENT

BEAUTIFUL character 4 bedroom/3 bathroom fully equipped house with river views available May - June. Very close to UWA. One bike available. Would suit visiting academic. Rent negotiable if you’ll mind cat and pool. Tel: 9386 7438

MODERN 2-BEDROOM HOUSE, fully furnished and equipped. Include TV, computer, piano, study, library. Five minutes walk Dental and Medical Schools, Charles Gardner Hospital, River, King’s Park, shops. Would suit quiet academic/medical persons. Available 1 April to 1 August 2005. $275 p.w. Ph: 9386-6140 (A/H); email: hjones@cyllene.uwa.edu.au

CRAWLEY. Furnished Accommodation. Ideal for visiting academics. Short walk to Daglish station and various bus routes. Jolimont primary school and Shenton College (high school) are about 5 minutes walk. UWA is a short drive away. Please contact Bronwyn at: bronniejh@telstra.com or 0411 774 991 for further information.

COMO: 3 bedroom, 2 bathroom duplex. Furnished. From c. 1 April to mid-August or part. Phone: 040-891-7922; dkennedy@cyllene.uwa.edu.au

WANTED

ACCOMMODATION wanted from late August to February 2006. Visiting academic from Missouri seeks furnished house close to UWA. Please contact: gerhardth@missouri.edu or kknott@cyllene.uwa.edu.au

COMPUTER wanted – 2 Computers preferably Pentium 3. Please email: lpavich@cyllene.uwa.edu.au

HOUSESITTING

Mature staff member eager to house sit within 20km of Perth anytime between mid March till July 2005. Will happily supply references, love gardening and pets. Contact details: mvandam@admin.uwa.edu.au

University Graduate available for 6-month House-sit from January 25 – mid-2005. I am a 62-year old professional woman, fastidious housekeeper and very particular about security. I am a non-smoker and happy to look after your garden and personal affairs while you are away. My new home in Atwell (southern suburb) is due for completion in mid-2005, and I plan to keep a close eye on the building process. I look forward to meeting you to discuss mutual requirements. Please contact: Heather Lamont. Phone: (08) 9310 3978. Mobile: 0403 931 290

LOST

NIKON Digital camera, in red cloth bag about February 18. Belongs to student. Please call Mana Yachida on 0419 961 463 or Natasha Kepert at CELT on Ext 3539
POST-GRADUATE SEMINAR SERIES IN CHEMISTRY

THE UNIVERSITY OF WESTERN AUSTRALIA
NEW BIOMOLECULAR AND CHEMICAL SCIENCES BUILDING

5.15 – 6.15 pm
(drinks will be served after the seminar)

FIRST SEMESTER, 2005
March 10  Keith Stubbs
'Synthetic Endeavours Around Carbohydrate-Processing Enzymes'

April 14  Rebecca Fuller – PhD proposal
          Nigel Smith – PhD proposal

May 5     Phil Schauer – PhD proposal
          Adrian Scaffidi – PhD proposal

May 26    Janette Head
'Learning about multiple structural representations in organic chemistry'

All are welcome to attend.
Bob Stick 6488 3200
Email: rvs@chem.uwa.edu.au
Convenor

Future deadlines for UWAnews for 2005

DEADLINE (Wednesdays)   PUBLICATION DATE (Mondays)
February 23               March 7
March 9                   March 21
March 23                  April 4
April 6                   April 18
April 20                  May 2
May 4                     May 16
I have taken the title of my column from the album of the same name by Slim Dusty. “Looking Forward … Looking Back” was the 100th album recorded by Slim Dusty – a significant event in the Australian music industry.

The title track is a somewhat melancholy, wistful and retrospective song:

“Looking forward, looking back
I’ve come a long way down the track
Got a long way left to go…”

The second line was certainly appropriate to Slim: he had been a Country and Western icon for 50 years. The third line was overly optimistic, as Slim Dusty died about 18 months after the album was released.

Why this reference to Slim Dusty? Well, this year, the School of Oil and Gas Engineering celebrates 10 years of existence, and this event prompts all of us in the School to reflect on the past 10 years and to renew our commitment to the industry and community, to our professional disciplines, to the University, and above all, to our students, past, present and future. Our School has “come a long way down the track” and, in contrast to Slim, we’ve “got a long way left to go.”

I was fortunate to be involved in the School from the time of its conception. In 1991, a joint State/industry committee was set up to examine and report on ways of maximizing local content in the oil and gas industry. One of the issues examined was the need to grow and skill the workforce. Included in the report was a small suggestion: that a Postgraduate Course in Oil and Gas Engineering be established in WA to upskill the existing professional engineering workforce, and to provide a pathway into the industry for recent graduates.

The suggestion was taken up by Dr Don Henery, then second-in-charge at Woodside. He convened a “gang of four”, consisting of Don and John Mills from Woodside, Ian Fraser, the Director of Petroleum in the Department of Minerals and Energy, and myself. For the next 18 months, this group, in consultation with industry, devised the structure and content of a two year Masters degree. The new venture was established as a collaborative undertaking between three Universities and industry, and Woodside made an initial contribution of $1m to establish a Chair.

Professor Beverley Ronalds was appointed as Foundation Chair in 1994, holding the Woodside Chair in Oil and Gas Engineering, charged with the awesome task of bringing the concept to reality, which she accomplished with distinction, and the School had its first intake of 12 students into the new Master of Oil and Gas Engineering degree in 1995.

Since that inaugural class, the number of Masters enrolments has grown to around 100, the School has produced some outstanding PhDs, and also introduced new undergraduate Engineering degrees with an undergraduate enrolment approaching 100; we now have the largest, most comprehensive program in Oil and Gas education and training in Australia, and international recognition.

Looking back on the past 10 years I feel a sense of exhilaration. It is a wonderful experience to be part of a rapidly growing and vital School, within a Go8 University.

I also feel a wonderful sense of pride and achievement when I look at our graduates, who, in significant numbers, are carving out careers and marking their mark in the Oil and Gas industry, locally and globally. We do attract the best quality school leavers into our University and Engineering Faculty and, I maintain, if we do our job properly (academic, technical and administrative staff), we will produce the highest quality graduates. They are one of our most potent marketing tools. They are a distinguished alumni, and, looking forward, our School will derive much strength from these graduates and an active alumni relationship.

I also appreciate the collaborative environment that has developed with the other Schools in the Faculty. Looking forward, this internal collaboration is another resource strength and we should capitalize on this in our professional pursuits and in the marketing of our courses and capabilities to industry and the community.

Looking back, as Slim says “we’ve come a long way down the track”. The road behind took a lot of hard work and effort to negotiate. Looking forward, the way will still be hard, but the path is much more clearly defined – we must consolidate our teaching, internationalise our student base, expand our research, maintain and strengthen our industry support and collaboration, and so “we’ve got a long way left to go”. And most importantly, we have a renewed energy and enthusiasm for the path ahead.