

Changes in the Faculty

The Faculty has been considering adjustments in the Nursing and Health area in the Faculty for some months and undertaken a process of change management. There has been extensive consultation and overwhelming agreement that changes to enable the development of a professional Nursing School and an expanded Health Sciences School would benefit the Faculty considerably.

These changes are being considered at this time because of the new programmes obtained through the Nelson reforms and the opportune time for the planning of the new Health and Wellness precinct building on the Joondalup Campus.

The Faculty conducted two Faculty-wide meetings as part of the change management process and invited written submission. Student feedback was sought through independent offices of Marketing and Development and feedback from students was largely supportive of the proposed new School names.

After further discussion with the Faculty Executive and based on the arguments surrounding the global "health care" view of the 21st Century, it was decided that the Postgraduate Medicine programme will be located with the Nursing Area.

At the Faculty Board meeting on Friday 15 October, there was overwhelming agreement for the new School names of:

- School of Nursing, Midwifery and Postgraduate Medicine
- School of Exercise, Biomedical and Health Sciences

The names of the Schools still need to be passed by Academic Board and the Vice Chancellor before they can be used.

With the opportunities under the Nelson Reform, a number of new courses has been developed and will be offered across the Faculty in 2005. The Faculty views this as an exciting opportunity to expand on its areas of expertise and offer new degrees in the disciplines detailed below.

UNDERGRADUATE

School of Natural Sciences

• Environmental Forensics
The Bachelor of Environmental Science (Environmental Forensics) is the first undergraduate course in Western Australia that combines the elements of forensics, law and environmental studies with a focus on the practical skills of investigation, detection and prosecution.

• Environmental Health
The Bachelor of Environmental Science (Environmental Health) focuses on integrating health and the environment in a cross disciplinary manner and addresses an urgent need for qualified graduates in Environmental Health.

• Sustainable Forestry
The Bachelor of Environmental Science (Sustainable Forestry) is the first West Australian course to focus on the sustainable use of forest resources.

The Head of School, Associate Professor Paul Lavery, said that there was a demand for a new generation of environmental scientists and natural resource managers. In forestry, the last decade has seen a fundamental shift in practices, from a focus on wood production from native forests to a more integrated approach, where re-forestation, carbon sequestration and the investment opportunities of plantation forests were also recognised as key products. The move towards greater enforcement or environmental regulations has also seen an increased demand for environmental managers with the capacity to design investigations, collect evidence and be effective in legal environments. The new degrees reflect these changing demands, and add to the excellent array of environmental and science degrees the School offers.

School of Engineering and Mathematics

• Security Management
The Bachelor of Science (Security Management) emphasises the function and management of security in the protection of assets, and is supported by appropriate studies in security risk and risk management,

security technology, law and ethics, computer security and information technology.

School of Biomedical and Sports Science

• Medical Radiations
The Bachelor of Science (Medical Radiations) is designed with a common first year and then separating into two streams for years 2 and 3. The two streams are diagnostic radiography and radiation therapy. A critical outcome will be provision of suitable training for graduates to be registered in Western Australia as Medical Radiation Technologists. The course will be forward-looking in that new technologies will be introduced as they become available and the teaching program will be closely linked to research in the field.

"The Medical Radiations degree represents a strategic move by the School of Biomedical and Sports Science into a professional field which complements our other programs while building on existing strengths in human anatomy, physiology, and pathology", said Professor Rob Newton. "Development of this new degree is the result of a successful bid for HECS places earlier this year and provides an alternative for students wishing to study this expanding field in the north of Perth."

School of Nursing and Public Health

- Additional places for Nursing

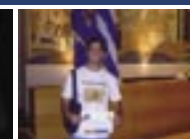
POSTGRADUATE

- Master of Security Management
- Master of VLSI Design and Test Engineering
- Bachelor of Technology (Electronic and Computer Systems)

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Farewell to Staff

The School of Nursing and Public Health recently farewellled Maureen Mankoo, Administrative Assistant for Postgraduate Programs. Maureen had been part of ECU for nine years, working in a variety of roles. She will be greatly missed for the conscientious and efficient manner in which she conducted her duties, and for her warm and caring approach to our students.

Maureen enjoyed taking on ambassador roles for the School through her support at careers nights, expos and in the day to day contact that she had with prospective and current students. Maureen has moved to a more senior administrative position and we wish her all the best as she begins the next phase of her career.



The Faculty farewellled Debra Hyde, Secretary to the Associate Dean (International and Commercial), at a

morning tea on Thursday 28 October. After two and a half years in the position, Debra has left to take a receptionist position at Wesley College where she will have more holidays to spend with her teacher husband. Debra's easy going nature, willingness to help others, ability to organise complex itineraries for visiting international groups, and offbeat sense of humour will be greatly missed. We wish her the very best in her new position.

Bon Voyage!

Farewell and best wishes to Natasha Ytsenko from the Faculty's International and Commercial Office, who has left to travel to Europe.



Welcome to New Staff

School of Computer and Information Science

Dr Alfred Tan Lecturer Mobile Computing

School of Natural Sciences

Mr Chris Leigh Laboratory Technician

School of Nursing and Public Health

Ms Diane Treadgold Admin Assistant

Executive Dean's Office

Ms Jeannine Millstead Project Officer

Research and Higher Degrees

Ms Christianne White A/Admin Officer

Ms Rosemary Maniaci A/Admin Assistant

Teaching and Learning

Mr Zane McDonald Instructional Designer

Electron Science Research Institute

Mrs Rong Zheng Research Fellow

Dr Roger Jeffery Research Fellow

From the Executive Dean

It is hard to believe that the end of second semester has arrived, suggesting another year of academic endeavour is coming to an end. There were significant achievements by us this year, many of which have been mentioned in CoHeSion, and 2005 looks very promising.

Our health research institute has been renamed from the Health and Wellness Institute to the Vario Health Institute and co-directors Professor Donna Cross and Rob Newton believe the new name will assist us in terms of profile development. I thank our Adjunct Associate Professor Michael Henderson for the work he and his team of volunteers have put into developing support for the Institute.

Whilst on the topic of health expansion, I am pleased to report that planning for the new Health and Wellness building is proceeding with the appointment of architects Hames Sharley. It is anticipated that the conceptual sketches will be completed this year and a move-in date of December 2006 is on the plan.

The building progress is good news but at the same time we have to acknowledge our loss in the health area with Head of School, Associate Professor Kate White, leaving to take up a professorial research position at the University of Sydney. We wish her the very best and look forward to continued research collaboration.

I am pleased to report that Dr David McDougall has been appointed Head of School for the School of Engineering and Mathematics for 2005 to lead the School in its academic expansion. Well done David! The School also has Professor Nara Srinivasan driving the security courses expansion and the University partnership with Emirates Airlines. 2005 should see consolidation of this international initiative.

The recent TISC first preferences information is quietly optimistic with the Faculty showing an overall increase of a couple of percent. Given the downturn in interest in University places across Australia, our numbers are a positive achievement. Hopefully, this is because our "students come first" position is well recognised.

The significant restructure of the School of Nursing and Public Health and School of Biomedical and Sports Science into two new Schools better suited to our changing health profile is progressing well and should be operational from 1 January, 2005. The new names are yet to have final sign-off but are likely to be accepted as the School of Nursing, Midwifery and Postgraduate Medicine, and the School of Exercise, Biomedical and Health Sciences. Watch this space as some exciting new appointments and course adjustments will follow the School adjustments in 2005.

Finally, I am delighted to note the achievement of Associate Professor Adrienne Kinnear from the School of Natural Sciences in winning the Premier's Science Award in the tertiary category of Premier's Prize for Science.

Best wishes for the Christmas season to you and your family.

Professor Tony Watson
Executive Dean

It's a Boy!



Congratulations to Sarah Kane, from the School of Biomedical and Sports Science, who gave birth to Mitchell Ian Kane at 5:37pm on Friday, October 22, weighing 9lb 6oz.

Tie with Thailand

The Ministry of Public Health in Thailand has nominated ECU as a centre for training senior nurse educators from its many training centres in the provinces of Thailand. The first group of 10 nurse educators recently completed their 12 week English and Nurse Education Program. Depending on the results of Teaching English as a Foreign Language (TOEFL) or International English Language Test (IELTS) testing in Thailand, we look forward to hosting many of them in a PhD or Masters Program. A substantial proportion of their time was spent at the International School of English, co-ordinated by Robyn McDougall and PJ O'Keefe; within the School of Nursing and Public Health, their program was supervised by Dr Sue Nikoletti and their research interests were explored in meetings with Professor Linda Kristjanson.

On the final day of the course, 17 September, the nurse educators completed an evaluation. They were unanimous in their support of the program and highlighted the English course and the 3 week TOEFL course. Indeed during the 12 weeks of English instruction, their standard of spoken and written English showed substantial improvement. They visited a major public hospital and saw, first hand, nursing conditions in Australia. For a future visit, a broader experience would be warranted to include visits to private hospitals and perhaps a nursing home.

During the final session, the nurse educators were clearly motivated to explore new teaching ideas within Praboromaratanok, to search for more research information, to read reports on international conferences and to take a TOEFL or IELTS test. Significantly, they are also motivated to continue to prepare for a higher degree, and are actively developing persuasive research proposals. They have been invited to continue their contact with nurse education researchers at ECU.

SAL Chairman visits ECU

Mr Abdul Rashid, Chairman of the SAL Group of Colleges, paid a courtesy visit to ECU on Thursday 29 July whilst he was in Perth on a trade mission.

In May 1999, ECU signed a five year agreement with SAL College (KL Campus) for the delivery of the Bachelor of Science (Software Engineering). The first cohort of students graduated in 2001.

ECU will expand its program offerings in 2004 to include the Bachelor of Science (Internet Computing).

This agreement has been renewed for a further five years and a signing ceremony took place on Joondalup Campus between Mr Abdul Rashid, Professor Patrick Garnett and Professor John Wood. Mr Rashid was also taken on a tour of the Schools of Computer and Information Science, and Communications and Multimedia on Mount Lawley Campus.



L-R: Julie Johnson, Associate Professor Barry Gibson, Associate Professor Bill Hutchinson, John Wade, Professor Patrick Garnett, Abdul Rashid, Liz John, Professor John Wood and Michael Johnstone

Chinese Academy Launch

The School of Computer and Information Science (SCIS) has commenced a program with one of the most prestigious research and teaching institutions in China, the Graduate School of the Chinese Academy of Science (GSCAS). To add to their own prestige, the best universities in China separately list their own faculties that have graduated from the GSCAS. This program has paved the way for co-operation between ECU and leading Chinese universities.

The program offered is the Master of Information Technology, an important course within ECU, with graduates working as far away as the USA. The first half of the program is being taught by the GSCAS and the second half will be administered by SCIS lecturers providing learning resources, assignments, and travelling to Beijing to work directly with students. Students will undertake an industry project to complete the Masters award.

Professor Huang Jun, Dean of the School of Distance and Continuing Education, opened the ceremony with a welcome to those present at the opening. He praised Perth as a beautiful city populated by open and honest people, and explained that he was very impressed with SCIS as a technically advanced School with excellent lecturers and facilities.

Dr Bob Cross from SCIS congratulated the people involved in bringing together two world class partners to create the Master



Dr Bob Cross (centre) with Professor Huang Jun

of Information Technology program in Beijing. Also present was Dr Wei Wang, who will be remembered by his ECU colleagues, and is now a Professor in Biology at the GSCAS.

A brief video was played, incorporating a welcome speech by Professor John Wood, Associate Professor Wojciech Kuczborski (Head of School and lecturer), Garry Trinder (Project Coordinator) and Dr Donald McDermid (lecturer). Dr Cross then conducted an orientation for students from an ECU perspective, concentrating on an overview of the program.

Academic Promotion

Congratulations to the following staff on their promotion.

From Level A to Level B



Trish Williams

From Level B to Level C



Dr Alan Needham



Dr David Ryder



Dr Melanie Ziman



Dr Angus Burnett

From Level C to Level D



Associate Professor Donald McDermid

Prestigious Teaching Award

At a gala dinner for the winners and 260 guests, the Premier, Dr Gallop, announced the winners of this year's Premier's Science Awards. The awards cover primary, secondary, tertiary education and researcher categories.

In what can only be described as wonderful news, Associate Professor Adrienne Kinnear, from the School of Natural Sciences, was announced this year's winner of the tertiary science teacher category.

It is absolutely wonderful to see the efforts of such a dedicated, talented, extremely self-deprecating and deserving scientist being recognised in such a prestigious award.

In announcing the award, the Premier commented on Adrienne's genuine passion for teaching, her emphasis on "hands-on" field experiences that provide a base for developing skills and concepts in biology, and her use of activities related to real-world examples that challenge our concepts of science and allow students to take the first step in learning how to generate new science knowledge.

Adrienne evokes interest in science through innovative teaching, genuine commitment to her students and application of challenging but confidence-building techniques.

Her approach to teaching encourages 'deep' rather than 'superficial' learning. She achieves this by openly discouraging rote learning and by using techniques that require students to develop reflective answers. This often involves students comparing their views and conceptions against those of peers and the 'expert' view.

Perhaps Adrienne's strongest point as a science teacher is her ability to relate to students and colleagues from a wide diversity of backgrounds, making every one of them feel that their learning or mentoring experience has been tailored to them.

The Faculty congratulates Adrienne on her outstanding achievement.



Associate Professor Adrienne Kinnear with Dr Geoff Gallop

VFAS Promotion

Jo Gosling has been Acting Divisional Manager of the School of Nursing and Public Health Division of St John Volunteer First Aid Service (VFAS) for the past 18 months. Jo underwent management training and leadership courses in conjunction with St John and Australian Institute of Management during this time. Jo also has to pass officer and divisional reviews conducted by State Office staff. As Manager, Jo is responsible for the general running of the division; 15 members at present but "increasing constantly".



Jo's promotion to Divisional Manager recognises the hard work that went into keeping the division going after the sudden departure of the previous manager. "I am very proud to have been given this responsibility and am looking forward to the challenge of building this division with the help of my wonderful, hard working members," says Jo. All of Jo's staff are past and present students of the School of Nursing and Public Health.

PhD Success

Congratulations to Dr Carmel Nottle, Acting Student Support Officer in the School of Biomedical and Sports Science, on the conferral of her PhD with a thesis entitled "Proprioceptive and Muscle Activation Changes in Triceps Surae Associated with Exercise Induced Muscle Damage" at the ECU graduation ceremony on Sunday 10 October.

The Carrick Institute



Vice Chancellor Millicent Poole with Associate Professor Lynne Hunt

Congratulations to Associate Professor Lynne Hunt who has been appointed to the Board of the Carrick Institute for Learning and Teaching in Higher Education.

Lynne's reputation for innovation and commitment to teaching is a source of pride for ECU. Two years ago she shared the major national award for excellence in university teaching.

The Institute is a new, national body designed to promote teaching and learning in Australian universities, which will receive funding of \$22 million a year from Canberra from 2006 to support the quality drive within universities.

Its responsibilities will include the dissemination of good practice, teaching awards, professional development in learning and teaching, and the management of learning and teaching grants.

It's an initiative of Education Minister Brendan Nelson as part of the package of

reforms he has steered through the system during his term.

Dr Nelson announced that the Institute's responsibilities will include developing mechanisms for the dissemination of good practice, and professional development in learning and teaching; and managing a competitive grants scheme for innovation in learning and teaching.

It will also be responsible for liaising with the sector about options for articulating and monitoring academic standards.

The Institute has been named after Sir John Carrick, a former Commonwealth Minister for Education.

The board of the Institute will be chaired by Professor John Hay, Vice-Chancellor of the University of Queensland and Chair of the Australian Universities Teaching Committee.

Appointment to Boards or External Committees			
Name	Position	Name of Board/Committee	Nominating Group
Ryder, D.	Member	Organising Committee: First State Transcultural Mental Health Conference (WA)	
Cross, D.	Steering Committee Member	Aussie Optimisim Dissemination Project Steering Committee	
Rose, E.	Editorial Board	Malaysian Journal of Sports Science and Recreation	
Laursen, P.	Editorial Board Member	Journal of Science and Medicine in Sport	Sports Medicine Australia
Cross, D.	Member	Waroona District High School P&C Early Years Playground Sub-committee	

Chris Allen



The new Head of Security at Sydney Opera House is Chris Allen, an ex-ECU student who studied Security and Business. He is responsible for overseeing and implementing the upgrading of the entire Opera House's security systems, procedures and personnel.

Given the nature of the Opera House and its status as Australia's most recognisable icon, building and tourist attraction, he believes that "everything I do must reflect equal parts functionality, practicality and customer service".

Towards the end of 1999, whilst still at university, Chris was offered the opportunity to travel to East Timor with a leading international aid agency in the capacity of Security Manager. He says, "this three-month tour in East Timor was one of the most challenging and satisfying periods of my life". Chris remembers one mission in particular where his team were tasked with delivering food to, and feeding, 45,000 people inside of a week. He says of the experience, "While this was without doubt one of the most stressful periods in my life, it was also one of the most rewarding".

Upon returning to Australia, he returned to university to continue his studies while also developing a crime prevention package which would later be included as part of the Justice Studies Program at Edith Cowan University.

Chris was granted a position with the Australian Protective Service (APS) as a Security Risk Management consultant, moving to Canberra where he was stationed at the APS national headquarters. There he provided security and risk management advice to various Government departments.

He transferred to Sydney shortly after, where he took over as the Superintendent/Officer

in Charge of APS operations at Sydney's Kingsford-Smith Airport (SKSA). Then, during the merger between the Australian Federal Police and Australian Protective Service in early 2003, Chris moved back to Canberra, where he was tasked with the restructure of the APS Security Vetting and Quality Assurance Department. It was during this time that he was approached and offered the position as Head of Security for the Sydney Opera House; a newly created position as a part of a \$4.6 million upgrade to security at the Opera House in the wake of recent world events.

Chris believes that customer service is the key to the Opera House's prosperity in uncertain times; "it is difficult to maintain an effective security program, significant enough to show that we have definitely stepped our security up a notch without coming across as being overbearing and intimidating. To a large degree, this will be achieved, I believe, through a heavy focus on customer service".

Vanessa Gaston

A degree in health promotion can lead to a variety of job opportunities, as ECU postgraduate student Vanessa Gaston has found. Now the coordinator of the Rural Women's GP Program at the Royal Flying Doctor Service (RFDS), Vanessa has a range of experience, starting with her ECU degree in Health Science (Health Promotion). Studying externally allowed Vanessa to accept a permanent position at the Adelaide Southern Division of General Practice as the Health Promotion Coordinator for four years before graduating in 2000.



The trip to Perth for the graduation ceremony was a highlight for Vanessa. She says of the experience, "Once graduating, I found the world had opened up to me".

At RFDS Central Operations, Vanessa's portfolio includes coordinating special Health Promotion projects as they arise within the Health Services area. Her role involves travelling around South Australia and the Northern Territory, working in collaboration with government agencies, regional health services and remote communities.

Of her decision to return to ECU again earlier this year to complete a Postgraduate Diploma in Women's Health Studies, she says, "While it takes a lot of discipline and good organisation I am actually finding it easier this time around". Upon completion of her current studies, Vanessa would like to study towards a Masters degree in Public Health.

Daniel Galvão



Congratulations to PhD student Daniel Galvão, who represented the School and ECU at the prestigious 2004 Pre-Olympic Congress conference. The quality of his research has been formally recognised, which represents a significant achievement. The conference is held every four years prior to the Olympic Games.

Daniel, an international student from Brazil, presented his research at the "Sports Science through the Ages" conference, held between 6-11 August in Thessaloniki / Hellas at the Aristotle University Campus. Over 1454 abstracts were presented from 79 countries.

The "Development Award" was awarded

to the ten best young investigators from developing countries. Daniel was presented with a Certificate and \$US1,000.

The abstracts that Daniel presented were both related to resistance training and aging. The titles were:

- "Multiple-sets are superior to single sets for enhancing muscle function in older adults."
- "Validation of the OMNI Perceived Exertion Scale for resistance training in older adults."

Daniel moved from Rio de Janeiro to Brisbane, where he completed a Masters degree in Sports Science at the University of Queensland. He then applied for Professor Robert Newton's PhD program at ECU and was successful, coming to Perth at the beginning of this year with a plan to finish his PhD by the end of 2006.

Daniel is currently working on a project related to resistance training for prostate cancer patients receiving androgen deprivation therapy (ADT).

He wishes to assess the possible benefits from this type of exercise on counteracting the side effects of ADT in this cancer population. He would like to thank his supervisor, Professor Robert Newton, and his associate supervisors, Professor Linda Kristjanson and Dr Michael McGuigan.

Jo Wilson



From left (clockwise): Hon Sue Ellery MLC, Dr Daniel Fatovich, Ms Sue Nickoletti and Ms Joanne Wilson (Photo courtesy of Department of Health)

Congratulations to Jo Wilson, an ECU postgraduate student, who has won the Helen Bailey Scholarship for 2004. The scholarship was established in 1971 in recognition and honour of a remarkable woman's contribution to the advancement of nurse education in

Western Australia. It is offered annually as a memorial to Helen Bailey's own contribution to nurse education, and helps nurses who are going to undertake or complete nursing research at the masters or doctoral level in Western Australia.

When asked how she got into nursing, Jo says with a laugh, "It was just one of those things, and I'm very glad that I did it." On choosing ECU, she states the flexibility of studying externally whilst working was a deciding factor, as she was offered a program that met her needs. According to Jo, ECU gave her an excellent level of supervision.

For Jo, the \$10,000 Scholarship represents financial comfort and the freedom to employ more resources, "The trial has the potential to be more rigorous, without the struggle associated with low resources".

Jo is undertaking studies for a Masters degree in nursing by research at ECU whilst working at Royal Perth Hospital. She plans to conduct a study to determine the efficacy of early administration by nurses of simple analgesia to patients waiting in the Emergency Department for medical assessment. Jo sends her heartfelt thanks to Sue Nickoletti; "I'm humbled by her knowledge. It's amazing".

Nathan Hobby

Nathan has been writing stories since he could read, and became serious about it when he was 15. He spent a lot of time writing science fiction stories, because he "just wanted to escape the real world". But then Nathan started to realise that the real world was worth writing about, and worth trying to change.

It's from those sorts of convictions that he ended up studying theology and English at Murdoch between 1999 and 2002. Nathan also spent those years writing a novel about a teenager's quest to find the meaning of life. It's called *The Fur* and has seen print this year as the recipient of the 2003 TAG Hungerford Award for an unpublished manuscript.

Nathan is studying to be a librarian because he likes books and people, and has a wide ranging interest in "all sorts of stuff". According to Nathan, "the librarian is the grand controller of the whole world, really, since the Dewey System covers everything that's ever been communicated". Nathan is working at the Cambridge Library part time as a clerk.

Kylie Wheeler

Kylie Wheeler, a sessional staff member at the School of Biomedical and Sports Science, recently represented Australia in the 2004 Athens Olympics.

's athletics story started 16 years ago, when she joined little athletics at the age of eight. She loved it, and consequently, is still involved today.

Kylie's first state team was at age 13 and then she represented Australia at the World Juniors at 18. It was then that she set her sights on representing Australia at the Commonwealth and Olympic Games.

In 2002 Kylie had the best year of her life, as she was selected to join the Commonwealth Games team. She says of the experience, "I was out there to enjoy the experience and to do my best, so to come away with the silver medal for the heptathlon and to run unexpectedly in the 4x400m relay heats with my idol Cathy Freeman was beyond my wildest dreams".

At the Olympic Games in Athens earlier this year, Kylie's results were not as good as she had expected - she finished 18th.

She had hoped for a top eight placing, however, Kylie says, "I was still able to take plenty of positives away from the games having achieved two personal bests, and it was a great learning experience for me".

She is now motivated to do bigger and better things at the next Olympics.

Kylie shares her impressions of the 2004 Olympics with us; "the Olympics was just an amazing experience. Athens was buzzing and everyone was in great spirits. The village was awesome, bumping into famous people and being able to eat in the dining hall 24 hours a day, seven days a week".

Kylie has turned her sights to the next Commonwealth Games in Melbourne and the 2008 Beijing Olympics.

"It is going to take a lot of hard work and I'm sure it will involve some tough times, but I'm ready to tackle them!" she says.

Kylie helped to co-ordinate the athletics component of a unit in the first year physical education degree. She looks forward to being involved in the unit again next year.

This edition of CoHeSion introduces a selection of staff who have worked at ECU and its antecedent institutions for between 25 and 29 years. Congratulations and thanks go to Associate Professor Adrienne Kinnear, Dr David McDougall, Associate Professor Clif Smith, Dr Chris Meredith, and Associate Professor Jim Cross for sharing their stories with us.

The following feature is a result of the above staff members' reflections on the following areas: early educational background and working life, employment prior to ECU, special skills, treasured memories, migrant experiences, committee/community group membership, interests, and life-influencing quotes.

Associate Professor Adrienne Kinnear

Adrienne was educated at a Catholic convent school in Fremantle where she developed, "A love of science and music, a strong sense of justice and equality – and probably a feminism which lay dormant until my thirties". She completed undergraduate and postgraduate degrees at UWA, "spending many hours on Rottneest chasing quokkas, among other things" for her PhD.



She then went on to live in Edmonton, Canada for four years where she researched and taught in the Zoology department at the University of Edmonton. Adrienne was a Postdoctoral Fellow and sessional lecturer at the University of Edmonton, then upon her return to Perth taught at Graylands Teachers' College.

She was one of the "boat people" who came to Churchlands to the Science Education Department in the 1980s. She says of her career, "I have been fortunate enough to have been always associated with universities or tertiary institutions of some kind throughout my working life, and I have always been grateful for my days in Science Education as it was there that I really learnt to teach".

A community member of the Yellagonga Advisory Committee and representative for ECU on the Joondalup City Council Sustainability Committee, Adrienne values community involvement as part of a rich working life. Within ECU, she has recently been elected to the Academic Board as the Faculty Representative, and is involved with the Academic Staff Association Executive Committee and the ECU Environment Committee. Describing herself as a "frustrated vegetable gardener" due to lack of free time, and claiming to have never lost her love of classical music, Adrienne also has a "once-upon-a-time" Diploma in Classical Music (Performer's Piano). Her most cherished moment is the birth of her daughter 25 years ago. Adrienne subscribes to the sentiment that, "nobody has ever wished on their deathbed that they had spent more time at work!"

Dr David McDougall



David grew up in the North East of England, as his accent testifies. Despite "a brief flirtation" with Nuclear Physics, he graduated with a mathematics degree from Newcastle-upon-Tyne. His first love, academically speaking, was algebra, but once he started looking for jobs, "it became obvious this career path was fraught with difficulties. Many universities seemed to believe one algebraist was one too many".

David came to Australia in 1969, to a position at the ANU, seeking work and "a better climate". The trip out was on the Achille Lauro, with other migrants. He describes the trip as "five weeks of boredom punctuated by short bursts of sightseeing". After the ANU, a two year spell in Tasmania gave him the chance to get into teaching statistics – the Head of Department said, "If you can teach the statistician's load, you can have the job for one year"! David came to Western Australia in 1977 to a position at Secondary Teachers' College.

A love of opera, reading and cryptic crosswords was instilled in David by his parents, not necessarily in that order, and the last two form the basis for his leisure. As a teacher he treasures "the unexpected moments when a student says something or does something that makes the routine and drudgery worthwhile". A recent high point was the surprise celebration organised in David's School for his 60th birthday.

Teaching gifted Year 8 students in the Mathematics Problem Solving Program, an after-school activity sponsored by the School and Faculty, gives David a lot of satisfaction; "I expect to continue this into retirement". One of his favourite quotes that "helps me cope with the data produced at various stages of the year by our administration" is from Benjamin Disraeli - "There are lies, damned lies – and statistics".

Associate Professor Jim Cross



Jim's primary and secondary education was undertaken in Taree, NSW, where he was elected as the first School Captain of then newly established Chatham High School. On completion of his secondary schooling, Jim worked for a short time as a clerk with an Accounting firm before accepting a Teacher's Scholarship to study at the University of Newcastle, NSW. He completed the Bachelor of Mathematics with first class Honours in 1974.

During his studies, Jim obtained several academic prizes in Psychology, Economics and Mathematics. In 1974 he obtained the prestigious University Medal for academic excellence in any course offered by the university. On completion of his undergraduate study, Jim obtained an Australian Postgraduate Research Scholarship to undertake PhD study at the Australian National University in Canberra. After six months studying abroad at Stanford University in San Francisco, USA, Jim completed his PhD in Mathematics in 1978.

In 1975 Jim was appointed as a part time tutor in the Department of Mathematics, School of General Studies, at the Australian National University. In 1978 he was appointed as lecturer to the Department of Mathematics, at School of General Studies, Secondary Teachers' College. The college was renamed the following year as the Nedlands College of Advanced Education.

Over the following years Jim was appointed as Head of Department of Mathematics, School of Arts and Applied Science, Western Australian College of Advanced Education (WACAE) and subsequently the Associate Dean, Faculty of Science and Technology, WACAE. During this time he was promoted first to Senior Lecturer and then to Associate Professor.

Jim was in the first group of staff promoted to Associate Professor Level within ECU based on formal panel interview and selection. During his working career, Jim has been appointed as Fellow of the Australian Mathematical Society and Associate Fellow of Institute of Mathematics and Applications as well as Companion of the Institute of Engineers Australia.

Jim is a seventh generation Australian with ancestors dating to the first arrival in 1793 of Thomas Rose, the first free settler in the colony of NSW. His interests include travel, cooking, family history and coordinating international community based projects.

His skills in developing commercial software for mathematics teaching and learning, as well as international consultancy experience in Indonesia and Thailand for agencies such as the World Bank, set Jim apart from the rest.

Jim says "it is difficult to pinpoint the most cherished moment as there have been many special moments. This includes my academic achievements and recognitions as well as the reward of sharing the achievements of others that I have taught, supervised or worked with".

He is a current member and past President of the Rotary Club of Joondalup, and has served on many committees within the University over the years, including Chair of the Academic Services Committee and member of the Academic Board. In addition Jim had a ministerial appointment on the MERIWA Board, and has served as Chair on both the TAE and TEE Mathematics Boards. On the quotes that influence his life, Jim quotes "1+1 = 3" and "Everyone doing their best is not good enough".

Associate Professor Clif Smith



Clif attended primary school in Kalgoorlie, Rowlands, Busselton and South Bunbury. He cites Mr Alan Jones as an inspiring teacher at the two-teacher school at Rowlands.

Clif went on to attend Bunbury Senior High School with several inspiring teachers including John Deacon, Rowley Bovell, John De Laeter, and Vin Mitchell.

After graduating from Perth Technical College with a double major in physics and mathematics and Claremont Teachers College with a Teachers Certificate, he commenced teaching at Busselton Senior High School.

As a four-year trained physics and mathematics teacher, Clif was promoted to Senior Master of Science at Governor Stirling SHS and then Armadale SHS.

Clif was appointed a tutor-supervisor at Murdoch University in the School of Education, where he supervised trainee science and mathematics teachers, which he enjoyed, "Murdoch was a wonderful experience with Professor Brian Hill and Professor Barry McGraw, enhanced by the types of staff and students that Murdoch attracted".

A competitive hockey player for 17 years in metropolitan and regional areas, Clif then played tennis at the Roleystone Tennis Club for four years and served on committees as a community activity.

He participated in competitive road running for about 20 years, having run 5 marathons (42.2 km) and about 80 half marathons (21.1 km). Clif is a member of both the WACA and the Eagles Football Club.

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Clif confesses to a musical interest in opera, and as a member of the Opera Lovers Society, attends most performances in Perth. His favourite opera composer is Verdi, and favourite opera is La Traviata. Clif also likes jazz, with Miles Davis being, "the best - in particular his album A Kind of Blue".

An astrophysicist who has conducted research in astrophysics for about 25 years, Clif has developed skills in astronomy, and in particular, night sky and telescope observations, "During the passing of Halley's Comet, I was the on-board commentator for plane loads of people flying at 41,000 feet to observe the comet!"

Clif's fondest memories include:

- His marriage to Maree McGrath in 1969,
- Graduating with a PhD in 1985, and
- Participating in the Capel to Collie relay road race (106 km) with Frank Dymond, Dino Gava, Owen Hicks, and Jeff Smith, "on some of the biggest running hills that we had seen!"

Sir Isaac Newton said, "If by chance I have been able to see further than others, it is because I have stood on the shoulders of giants". Clif pays a similar tribute to the pioneering researchers in the fields in which he has worked.

Dr Chris Meredith



Dr Chris Meredith has travelled far and wide gathering skills to enrich his teaching expertise. He was born in Scotland in 1947 and endured a "rigorous and unforgiving" education before being informed that his Qualifying Examination results determined that "Latin was beyond me, University entry was out of the question and I would leave school in 1962, aged 15". In 1963, the Scottish Universities Entrance Board saved his secondary education by dropping Higher Latin as a prerequisite for University Entrance.

After completing a degree in molecular biology in 1970, followed by teacher training during 1971, he spent the next six years teaching his way around the world in some very different high schools.

Chris has his fair share of travelling nostalgia, "Ah, the memories! Crossing the Sahara, climbing Mount Kilimanjaro, just seeing Etosha Pan, reaching the bottom of the Fish River Canyon, getting lost in the Drakensberg Mountains, Swaziland avocados, British steamships, Indian trains, Ceylonese serendipity, relaxing at Lake Toba, New Zealand's old cars, Fiji's Plantation Island (take me back!), a sign in San Francisco demanding that 'Hippies -Use-> Side Door', afternoon tea with the 'Daughters of the British Empire' in Victoria (Vancouver Island)".

After a whirlwind six years overseas, Chris was finally back in reality in cold and foggy, but beautiful, Durham to do a masters degree in biological anthropology (1977-8). At four-thirty one cold, Durham morning in October 1978 the phone rang. "Hello, my name is Dr Robert Vickery, Director of the Secondary Teachers' College of WA. I'd like to speak to Mr Christopher Meredith. Sorry to disturb your bacon and eggs breakfast."

The only problem was that it was the next-door neighbours' phone that rang! Since Chris did not have a phone, they had kindly allowed him to use their number as a contact number. So began his tertiary career at Secondary Teacher's College, Nedlands College, WACAE and Edith Cowan University.

Shortly after Edith Cowan University was formed in 1991, Chris enrolled in a PhD course there. On a courtesy visit to the Australian Neuromuscular Research Institute in May 1991, he can still remember saying to a human biology student and her supervisor that "it should be me doing the work-experience".

By January 1992, he was enrolled in a PhD based in the laboratories at ANRI. The Human Genome Project had just started, he was joining an internationally renowned team, and Western Australia was one of the best places in the world to find mutated genes. Chris believes it was sheer luck; "I was in the right place at the right time. I would now be able to supervise honours and postgraduate students and inspire undergraduates with late-breaking stories from the lab".

Chris' sporting interests have included rugby, soccer, cycling and running but are now focussed on walking the dog and 'wobble-speed cycling'; "You may even have seen me - cardboard box on the back carrier, handlebars upside down, flipped-up clip-on sunnies, funny hat under crash helmet with peak and ear muffs sticking out, and trousers always tucked into socks".

He often reads during the two hours a day he spends commuting by train from Fremantle. This has generated a steady supply of 'must read books' from friends and family, making his reading "quite eclectic".

However, he particularly likes the humour, the socialism and anarchy of Oscar Wilde, who is renowned for his epigrams, two of which are quoted here:

"In examinations the foolish ask questions that the wise cannot answer."

"Either this wallpaper goes, or I do," said as he lay on his deathbed.

Improved Lake Water Leads to Biodiversity

Early April saw a program set up by Clint McCullough, Post Doctoral Research Fellow in the School of Natural Sciences, come to fruition. With the help of the CSIRO Student Research Scheme, two students from Mercedes College, Nichole and Megan Villanueva, and Siti Kim, a teacher from Presbyterian Ladies' College, joined Clint in sampling from mine lakes in Collie, a mining town situated approximately three hours south of Perth.

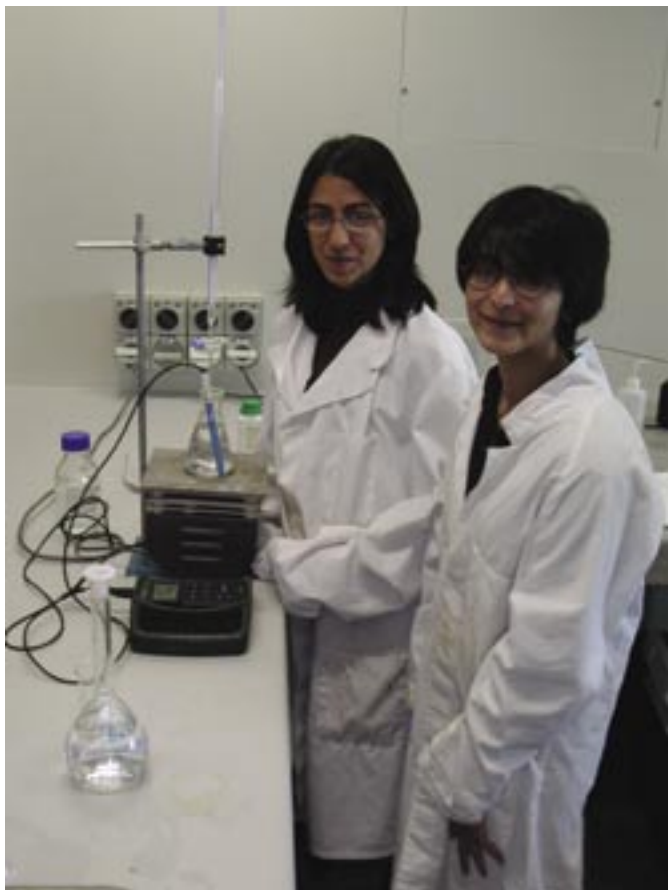
These lakes are formed when holes are dug to extract waste rock and ore and water gradually seeps into the pit to form an artificial 'lake'.

The idea of the project was to remediate the acid water that filled the mine lakes, making it possible to use the area for other purposes. One way to neutralise the acid is to introduce organic material which then separates the oxygen from the sulphide, effectively reversing the process that originally polluted the lake.

"The process from sample to result was a relatively short one," says Clint, "It only took a couple of days before we saw a substantial change; one which we could qualify as being a result of our interaction with the environment". The students only had 20 contact hours during the program, so they had to learn at an accelerated pace.

Despite altering the environment by adding mulch to the mine lake, the team witnessed no change in the pH level of the water. However, an exciting outcome of the experiment was that biodiversity increased, as did the abundance of species.

"The implications of increased biodiversity are far-reaching", says Clint. "With a greater number of invertebrates and plant life, animals higher in the food chain - including humans - will also benefit from this change".



Once a lake's pH level has been neutralised, several usage prospects potentially exist. Commercial opportunities include horticulture and aquaculture, with environmental protection as the non-commercial alternative. Further research into these areas will determine the viability of each option.

Clint, originally from New Zealand, has been in Western Australia since the start of this year and has already done plenty of hands-on work to improve the situation of our mines. Clint's approach when working with mining companies is to offer them assistance without confrontation.

Public education, according to Clint, is a key factor in eliciting change when it comes to eliminating the harmful by-products of mining. "The technology (to solve this problem) exists," says Clint, "however, funding is limited".

With a background including botany and farm management, Clint has a lot of experience in dealing with environmental concerns. In terms of the future, Clint is on the path to becoming a lecturer and has some fascinating projects in the pipeline.

One such venture that has already won a grant incorporates an acid mine lake in Queensland with an extremely low pH and a high concentration of iron.

Left and above: Nichole (left) and Megan Villanueva analyse samples from Collie mine lakes

AINSE Winter School

Charissa Burns, a student in the third year of her Biological Science Degree with a supporting major in Conservation Biology, attended AINSE Winter School this year.

She says, "Attending AINSE Winter School opened a lot of doors for me and showed me an area of science that I did not consider in relation to Biology, especially the practical applications of the science".

According to Charissa, there was a great learning atmosphere and everyone was open and "very helpful in my understanding of a subject that I had almost nothing to do with before attending".

Charissa believes that more biology (and environmental management) students should be able to attend because it shows a lot about a science that many of the students did not really consider to be part of their field.

"It was a fascinating and eye opening experience," says Charissa, and the AINSE group enables further study and courses within the field to those students who are interested in going further.

There are many scholarships available for interested students who are willing to put in the work.

Thanks, Charissa, for telling us about your experience.

Dr Ian Godfrey Speaks at the 2004 Bayliss Youth Lecture

Between 9 and 16 August, Dr Magda Wajrak from the School of Natural Sciences (SoNS) was once again involved in organising the annual Bayliss Youth Lecture in her role as the Chair of the WA Branch of the Royal Australian Chemical Institute, Chemical Education Group.

The lecture is named in honour of the famous WA chemist, Sir Noel Bayliss. Each year, a prominent chemist is invited to present a stimulating lecture on their area of expertise, with the aim of exciting high school students about chemistry whilst providing the general public with an opportunity to hear about the latest applications of chemistry.

This year, Dr Wajrak invited Dr Ian Godfrey from the WA Museum to present the lecture. Dr Godfrey is the Head of the Department of Materials Conservation at the WA Museum and a member of the Course Consultative Committee of the Bachelor of Technology (Applied and Analytical Chemistry) Degree in SoNS.

He has a special interest in developing new or improved techniques for the treatment of organic archaeological materials and routine treatments of waterlogged organic materials, along with the conservation of historic Antarctic buildings.

Dr Godfrey's lecture took us on an amazing journey to Antarctica where he has worked at Mawson's Huts (in Commonwealth Bay, near the French station at Dumont D'Urville) helping to stabilise the exterior of the Main Hut.

Ian did a fantastic job presenting the lecture, which was supported by appropriate chemical demonstrations and samples of artifacts such as shrunken wood and deteriorated ivory tusk cross-sections.

Overall, approximately 900 people attended the lectures in Perth, Geraldton, Bunbury, Albany and Rockingham.

A video taped version of the lecture is available for viewing. For details, please contact Magda on 6304 5654.



Dr Godfrey performing a demonstration during the lecture presentation.

Other Significant Activities

Name(s)	School	Description
Sim, M.	Nursing and Public Health	Provision of independent medical advice for the Office of Health Review
Meredith, C.	Biomedical and Sports Science	Ran two activities for the Fremantle and Peel Primary Extension and Challenge Programme on 19 and 26 August, 2004.
Swan, G.	Engineering and Mathematics	Around 800 year 11 & 12 physics students participated in the annual STAWA Physics Students' day at Adventure World on Thursday 30 September. Geoff Swan organised an ECU presence which included a speed slide competition where the winner was clocked by police at 53km/hr! Special thanks to ECU physics students Graham Wild, Mat Garcia, Yian-Yi Yong and Stuart Murphy for manning an ECU Physics display.

ECU Signs Memoranda-of-Understanding



L-R: Professor Patrick Garnett, Associate Professor Kate White, and Associate Professor Moira Sim with other ODGP members

The School of Nursing and Public Health has recently signed a memorandum-of-understanding (MOU) with the Osborne Division of General Practitioners (ODGP). Collaborative efforts between ECU's health programs and the practitioners' group are expected to benefit all parties, including ECU, local GPs, and Perth's Northern Suburbs community.

A Commonwealth Network of GPs was established in 1991, and now there are 121 GP Divisions in Australia, fourteen of which are in WA. The purpose of the Network is to make it easier for GPs to access information and provide care for their patients.

The Osborne Division maintains a program where doctors visit high schools and instil programs dealing with stress and pregnancy. There are active programs for the prevention of youth obesity, and a framework for pharmacies, rather than pharmaceutical representatives, to provide doctors with objective information on medicine.

Current student practicum programs at ECU emphasise proactive, investigative and evaluative methods of practice, with an example being the design of a Diabetes Education pamphlet. Communications are developed in line with community needs.



L-R: Professor Patrick Garnett, Rosemary Saunders, Associate Professor Kate White, Community Nurse Lower Zone North Metro Area Health Service, Sue Keenan Smith, Co-Director Nursing Population Health North Metro Area Health Service Mark Morrissey.

The School of Nursing and Public Health and ECU also signed a memorandum of understanding with the North Metropolitan Health Service. Through working with the Health Service, clinical co-coordinator for ECU's undergraduate nursing program, Rosemary Saunders (second from left), set up joint ventures with three local government agencies (see story p. 20).

Established with the Towns of Cambridge, Mosman Park and Shire of Peppermint Grove, the partnerships provided community-oriented clinical placements for ECU nursing students.

The students delivered targeted health promotion activities at local schools and public venues, providing information on health matters like injury prevention, personal safety, nutrition and exercise. "The practical experience the students gain from this collaboration with the health sector also gives the students an insight into the broader role of health planning in the public sector," says Rosemary. "Plus, the students gain a strong sense of professional and personal achievement".

The MOU signed with the Health Service opens the way for further co-operative activities in areas such as research and the education of nursing and public health students.

OSH

How did we do?

The faculty recently participated in a mock OSH Audit performed by an external consultant. Overall, the faculty performed well. However there were three main areas highlighted requiring attention. These are:

1. Risk Assessments
2. Training and Induction
3. Inspections

As a result of the outcome of the audit, the Faculty OSH Committee, together with representatives of the Heads of School, are working towards bridging these gaps so that the Faculty is fully compliant with legislation.

Thank you to all those staff members who gave up their time to meet with the consultant.

Do you want to make a difference?

Become an OSH representative for your area! Find out more from the ECU OSH Office.

ECU is committed to providing a safe and healthy working environment for staff, students, visitors, contractors and others. In line with the Occupational Safety and Health Act 1984, the University is undertaking an election for Safety and Health Representatives.

Interested parties or those who wish to nominate another person (with their permission) should complete the nomination form located at the following web address <http://www.ecu.edu.au/msc/hrs/osh/procedures/nomination.doc>

On completion, forward it back to the OSH office at the Joondalup Campus. For more information on being a safety representative please feel free to contact Mike Gavin on extension 2302 or Sandra Scali on extension 2725.

Although nominations closed at the end of September, interested parties can contact Mike or Sandra.

Step Up! Receives Funding

As previously reported in CoHeSion, the Government of Western Australia has committed \$800,000 to support peer tutoring in schools in the State, through the four public universities, over four years.

The STEP UP! Peer Tutoring Programme, which has been operating successfully for eight years, will receive a share of this funding, along with Murdoch's STAR programme (the original model in WA, 10 years in operation), and the two new programmes which have commenced at Curtin University and UWA.



Minister for Education, Alan Carpenter, handing over the formal Peer Tutoring Agreement to the ECU STEP UP! Coordinator, Coral Newman.

The assistance given in peer tutoring is recognised as an effective way to help school students "turn on" to science and technology, and ECU is fortunate to have fine young ambassadors and role models in our Faculty who volunteer their time and talents to do this.

Just Jamming

Some ECU students and School of Nursing and Public Health staff have recently joined the 'Just Jamming' line dance class run at the Churchlands campus to promote wellness, enjoyment and social interaction.

All proceeds from the ECU classes go to the Smith Family Charity.



L-R: Lorraine Burt, Shirley Chow, Laurie Gray, Vilma Thomas, Carissa Foley, Rosalie Generalao, Cherie Vituala and Betty (instructor).

Students STEP UP! to ECU's Peer Tutoring Programme

The Faculty's Peer Tutoring programme, Step Up!, is moving towards closure for this year. As part of the programme, students from the Faculty visit schools in the Mt Lawley, Joondalup and Churchlands areas and assist teachers in various subjects.

The students have done a superb job in strengthening ties between ECU and the local community, forming friendships and learning new things in the process.

Participant Gemma Malatesta has been highly praised by the Human Biology teacher at Belridge SHS, and her students affectionately told us that Gemma had been of "great help" to them.

At Mater Dei College, Science teacher Wayne Keady asked, "Are they all as good as the two that we've had?"

It's comments like these that show the community's genuine acknowledgement of the value of the ECU students partaking in this programme. Former STEP UP! tutor, David Blake, is now studying for Honours.

Wendy Turner's 'time and talent' science classes have been extremely successful. As well as being held in high esteem by the participating teachers, the students in these Year 10 and 11 groups have asked why Wendy can't be in more of their classes!

We are very proud of the maturity and willingness to cooperate that all of our STEP UP! Peer Tutors have displayed in contributing in this community service programme.

This programme benefits tutors both professionally and personally by extending their skills and aiding their development of ECU's ten Graduate Attributes. For more information on these attributes, email LDS@ecu.edu.au



John Poland— Faculty Community Officer

CH&S's Community Coordinator of some eight years, Coral Newman, will be retiring at the end of this year. John Poland has been appointed as the Faculty Community Coordinator and will be working side by side with Coral for the rest of the year.

John is enjoying the interaction with tutors and teachers and is looking forward to introducing new ideas and implementing changes to current practices that will make the Peer Tutoring programme even bigger and better in 2005.



Gemma Malatesta (3rd from left) with Belridge SHS students

Triple S Science Fair 2004

On Tuesday 17 August in National Science Week, the Triple S (Science for School Students) Science Fair was hosted by Ballajura Community College.

ECU's contribution to National Science Week included our Faculty staff and students who were among the passionate presenters being questioned by the close to 600 very interested people attending (despite the cold and the Olympics!) Fascination with the various "hands on" activities kept our presenters busy all night.

Dr Glenn Hyndes from the School of Natural Sciences was pleased to have the opportunity to take his special area of interest to people. Curiosity got the better of many people, who came to the stall to find out why he had seaweed in a tank. This gave Glenn an opportunity to talk about the ecological role of seaweed that has been washed up on our beaches. Many people took great delight in peering down the microscope to have a close look at the small animals that live in the seaweed. Some came back several times to try the challenge of catching the small animals with a pipette (no mean feat!).

Keen Sports Science students Trevor Lim and Regina Carson enjoyed the busy interaction with people as they measured the lung capacity of the visitors, old and young. The young people particularly liked the hand stability test because of the beeps made when the metal is accidentally touched by the stylus! Trevor and Regina explained how research in Sport Science helps improve both the athletes' skills and their ability to withstand vigorous and difficult activities continuously in sports.



Nardia Bordas' Science in Nursing Stall

We were pleased that Nardia Bordas was able to run her popular Science in Nursing stall again. Nardia says that people of all ages always ask many questions, and one of the most regular is "Yuck, is that what body fat REALLY looks like?" Many a caring parent used the artery health display to promote a healthy lifestyle to their kids, and Smoky Sue (the cigarette doll) drew plenty of attention to the tar content of tobacco. A few extra keen visitors even had a go at the urine analysis - simulated of course!"

Not only does Aviation in the School of Engineering and Mathematics regularly contribute the major prize of a flight in one of the ECU light aircraft for three people, their students are always ready to demonstrate the flight simulator, which both young and older people queue for! At this Fair, all the questions from the eager aviators-to-be were answered by Mathew Bogar (also a STEP UP! Peer Tutor, assisting at Kent Street SHS) with Michael Salinas and lecturer Andrew Baumanis - many thanks!

The well-set-up Nutrition stall attracted many people, most of whom were keen to take off their shoes so that Nutrition students Georgina Wood and Laura Bateson could measure their body fat percentage. Overall there were many shocked reactions – and not just from the body fat scales! There was considerable surprise about the amounts of sugar, salt and fibre displayed in the top 12 breakfast cereals. This stall really got people thinking about making better breakfast choices and taking an interest in their own nutrition!

Spaghetti Bridge Building Comp

The Triple S (Science for School Students) Committee was delighted to present the Inaugural Spaghetti Bridge-Building Challenge for Year 10 students, at the TripleS Fair at Ballajura Community College. On the night, only three of the invited schools were able to field their teams – John Forrest Senior High School, Mirrabooka Senior High School and Ballajura Community College, but that didn't prevent the competition being extremely keen!

Prior to the actual Challenge, the schools' teams had prepared, according to the rules set down. The students, in teams of four, had determined their best design and tested their constructions – loading the bridges until they collapsed! The challenge fits well with a range of the Physics "Natural and Processed Materials" Outcomes for Year 10.

On the night, after working fast and furiously from 5.30 to the testing time at 8.00pm, an ecstatic Mirrabooka SHS team ran out winners, receiving the top award, which came out of a prize pool totalling \$300. All teams were cheered on by enthusiastic supporters.

This exciting and successful challenge is set to become part of the second Triple S Fair each year, as a special National Science Week event.



The Winning Team (Mirrabooka SHS)



Interacting with visitors

LABRATS

For the fourth consecutive year, the Faculty has run its Labrats program during the mid-semester break as a joint initiative with Student Recruitment. The aims of the program are to provide the opportunity for high school students to experience a day in the life of a university student, to experience the many different aspects of the sciences and to see the superb facilities available in the Science and Health building.



Wizard's apprentice Brendan Gardner

With the assistance of Karen Infanti from Student Recruitment, approximately 400 year 10 and 11 students and teachers from 12 northern suburbs high schools were invited to experience a day in the life of a university student.

The Faculty provided coaches to collect the students from their schools and bring them to Building 19 on the Joondalup campus and return them to their schools at the end of each day's program. Each session was limited to 25 students so a number of schools requested two sessions so that they could bring more students.

Students from four schools per day participated in an array of fun interactive activities commencing with a different lecture each day. Dr Jacques Oosthuizen presented "What's in the Air we Breathe?", giving information on the potentially toxic components that are inhaled daily. Professor Will Stock kept the students enthralled with his lecture on Biodiversity and the bugs that share our beds.

Dr Craig Valli introduced "A Day in the Life of IT" which gave the students a better understanding of the extensive range of applications for IT and career opportunities from studying computing. A "magic show" by Dr Chris Meredith, ably assisted by student Brendan Gardner, caused much excitement on

Friday morning and the "home made" ice cream was a real treat! Following the lecture each morning, the students participated in four interactive tutorials:

Sports Star Search from the School of Biomedical and Sports Science in which they fed into the computer the results of several tests conducted to match their physical attributes and sports preferences with potential sport suitability;

The Hidden Web with the School of Computer and Information Science to investigate what it is, how to search it and how to use search engines;

And a choice of Kangaroo Paw tissue culture which involved using sterile technique to subculture a kangaroo paw shoot onto a medium that will encourage root growth (as the students get to take their plants home they were also given instruction on how to look after them until planting out), or:

The Invisible Ecosystem where students compared the number and diversity of microscopic invertebrates in 'bait' bags (containing a variety of fruits and vegies) that had been buried in two different soil types - natural bush soil and recently disturbed soil, with the School of Natural Sciences;

What's in the Air we Breathe? with the School of Nursing and Public Health, which demonstrated the equipment used to measure particles in the air;

The Hidden Web and What's in the Air we Breathe? sessions (four sessions per day over four days) were each solely presented by Barbara Combes and Jacques Oosthuizen respectively, a feat for which they should be commended.

Each group of students was escorted by a CHS student who acted as an ambassador by talking to the high school students about courses and careers in the sciences.

The students were also given a lunch voucher for fish and chips or a gourmet roll from the Cafeteria.

Initiatives such as these depend enormously on the goodwill of staff who put in their time, energy and commitment to ensure that the students' experience is enjoyable and that they take with them good impressions of a welcoming, friendly and professional university.

Sincerest thanks to the following dedicated Faculty staff and students, to Debra Hyde for her assistance with the morning teas and to Karen Infanti whose efforts contributed significantly to the success of the program:

School of Natural Sciences

Clay Millar, Dr Kristina Lemson, Associate Professor Pierre Horwitz, Professor Will Stock, Janelle Atkinson (Masters Science, Biological Sciences) and Sunitha Pasunuri (PhD Environmental Management and Grad Dip Education).

School of Biomedical and Sports Science

Dr Chris Meredith, Brendan Gardner (sessional), Leanne Campbell (Masters Student, Exercise Physiology), Jemma Coleman (Honours Student, Biomechanics), Jon Green (Honours Student, Biomechanics) and organisation assistance from Mary Cornelius.

School of Computer and Information Science

Dr Craig Valli and Barbara Combes, with assistance from Natacha Suttor.

School of Nursing and Public Health

Dr Jacques Oosthuizen with assistance from Brenda Hutchinson.

Student Ambassadors

Human Biology: Carmen Jones
Sports Science: Wendy Turner
Engineering – Electronic Systems:
Daniel Pizzey and Callum Young.



L-R: Student ambassadors Callum, Carmen, Daniel and Wendy.

LABRATS



ECU Nursing Careers Night 2004

On 13 August 2004, the School of Nursing and Public Health held its Annual Nursing Careers Night which enabled the school to showcase the purpose built facilities available for Nurse Education on Churchlands campus.



The focus of the 2004 Nursing Careers Night was on the career pathways for nurses and showing visitors the range of areas available to students and graduates both in employment, post graduate education and community services.

This was without a doubt one of the most successful Nursing Careers Nights that the School has held to date with an attendance of over 200 members of the public who exhibited a strong interest in the Bachelor of Nursing program. Visitors were treated to a light supper which was very popular with our prospective students especially as it included pizza provided by student recruitment who also provided generic advice during the evening.



Student nurses volunteered to act as tour guides so visitors could view the science laboratories, anatomy museum and hospital demonstration wards.

Visitors had the opportunity to view:

- 2 x Paediatric Wards
- Advanced Life Support, CPR/Resuscitation wards
- 2 x Orthopaedic/Traction Wards
- Midwifery ward
- Health Checks including blood pressure checks, BSE & TSE, height & weight, etc.
- Nursing Post Graduate study areas were represented and included the Post Graduate Midwifery Art Exhibition.



Industry representatives included Silver Chain and the Defence Forces who showcased the diverse range of work nurses can undertake and also scholarship and career promotion opportunities available through the Defence Forces.



Prospective students were also introduced to different community service groups which included the opportunity for ECU Nursing students to join the St John Ambulance First Aid Division in a volunteer capacity. The advantages are community service, increased communication and clinical skills. St John Ambulance volunteers attend events such as Big Day Out, AFL matches and the Royal Show.

Sans Frontiers – Medicine without Borders gives nurses (and allied health professionals) interested and/or experienced in human rights issues, international relations, or anthropology, the opportunity to practise across all spectrums of health care in third world countries.

ECU Careers Advisory Service and Student Recruitment were also on hand to answer questions regarding entry to courses, advice on preference, year 11 and 12 subject selection and career opportunities.



ECU Nursing Careers Night 2004



Nursing Students Participate in Community Partnership



Rosemary Saunders, Clinical Co-coordinator, Undergraduate Nursing Program in the School of Nursing and Public Health, in collaboration with Sue Keenan-Smith, Community Nurse with the North Metropolitan Health Service Lower Zone, established several community partnerships with local government councils. The purpose of the community partnerships was to provide community oriented clinical placements for nursing students.

Community partnerships were established with the Town of Cambridge, Town of Mosman Park and Shire of Peppermint Grove. Financial assistance was provided by each local council to support the activities.

Nursing students (in groups of eight) then targeted different groups within the community to implement health promotion activities. Students conducted health promotion activities at local primary and secondary schools, shopping centres, libraries, workplaces, aged care settings, and public community venues.

Overall campaign themes were discussed with the Community Development officers and local community nurse and clinical coordinator from ECU. In the Town of Mosman Park and Shire of Peppermint Grove the theme "Caring for yourself and your community" directed to the areas of injury prevention and personal safety was addressed. The rationale for this topic was the large impact injury can have on death, illness and disability to community members.

Injury prevention and control was also endorsed as a National Health Priority Area in 1986 due to the national burden of injury and the costs of disability to the community.

In the Town of Cambridge the theme "Eat well, exercise well to grow well in Cambridge" was addressed. This project focussed on the National Health priority, Exercise and Nutrition.

In this area every primary and secondary school had a specific health promotion activity. Sub-themes for each venue were negotiated with each individual community setting.

Each of the campaigns commenced with a campaign launch at the local council chambers, and local community members were invited to attend. This provided an opportunity to advise the community about the activities and invite participation.

The community partnership clinical practicum provided students with a great understanding of the community nursing theory to practice

link, and to building partnerships with ECU, local communities and local health regions.

The campaigns held in 2004 have supported the 2003 initiatives to;

- Enhance community partnerships
- Provide comprehensive, community focussed health promotion activities
- Provide meaningful and realistic clinical practicums for undergraduate nursing students
- Promote the role of the community nurse in delivery of health promotion to the community
- Foster sharing and links between members of universities, nurses in local health regions, local government and local community members
- Provide a commitment to local community health and wellbeing
- Develop an ongoing formal community partnership with the North Metropolitan Health Service.



Really Cool Science

Dr Mary Boyce was “Really Cool Scientist” for the day, and had the whole school population (54 students K-7) excited about science when she visited Goomalling Primary School recently.

With the help of John Poland and Coral Newman, Mary coordinated several fascinating hands-on activities relating to the elements for the school theme of “Flight”.



L-R: Coral Newman, Dr Mary Boyce, and John Poland with student Marcus Chalwell

Following our former Executive Dean’s excellent example, Mary delighted teachers as well as children when she produced strawberry ice-cream as the tasty finale, with the aid of liquid nitrogen.

Says “Really Cool” assistant Coral Newman, “Well done, Mary. The students and teachers will all remember the “Really Cool Scientist” visit at Goomalling. A fine time was had by all!”



Mary explains how ice cream is made



Mary, Shelby Chester and William Morris watch as Jessica Murray drops food colouring onto her bubbles

Goomalling principal, Stephanie Winnett, described the experience as “a blast!”

Coral sees the importance of starting young when it comes to science, with the belief that “if we can be useful in helping teachers to enthuse and encourage younger students in science, then certainly some children when they go to high school will not be scared off because it’s “too hard” or “not cool” when they remember science in primary school was interesting and fun, and that it relates to understanding the world around them”.



Kurtis Chester with his paper aeroplane

“I made a square aeroplane that looked like a glider. That went pretty far. One thing I learned is that if one wing is higher than the other it will go around in loops.”

- Kurtis Chester

“We made ice cream and it was yum. But the best part was how we made paper aeroplanes. The ones we flew had the record for 18 seconds in the air.

We had photosensitive paper and I put mine in the shade. When it turned white we put it in the photograph fluid. The colours switched so the white became blue”.

- Samuel Forward

I had photosensitive paper. I got a chess piece and put it on the photosensitive paper and put it in the sun. The sun changed it very fast.

- Jaydon Bird



Mary stirs the cream and strawberries for the ice cream



John and Mary pour the liquid nitrogen into the ice cream mix to freeze it

Contemporary Issues for Women and Midwives Exhibition

This semester, as part of their course requirements for the unit Contemporary Issues in Midwifery, students enrolled in the Postgraduate Diploma of Midwifery used various media to promote the role and function of the midwife in the professional and wider communities. Their efforts culminated in an exhibition on 26 October.



One of the mixed media pieces

Students were given choice and voice in selecting specific learning objectives as well as the strategies required to meet them. In the first weeks of semester, the students reached consensus about the broad areas they wanted to cover and decided how their work should be exhibited.

Given that project design, planning, implementation and evaluation, including the effective dissemination of ideas, are crucial to the advancement of the midwifery profession, three students assumed overall responsibility for the project.



Krystyn King

Some students chose art; others used sculpture, poster presentations, creative writing, photography or papers prepared for publication to represent their work. Early in the semester it was clear that the students' expectations of themselves, each other, their work and their exhibition went far beyond those of the unit co-ordinator, Carol Thorogood.



Ellie Ferguson and Nicole Chalmers

Partners, children and friends made substantial contributions to the exhibition. Finally, Max Vallis from Curatorial Services, showing enormous patience and perseverance, helped the students display their work to the best advantage.



Cath Pettman, Belinda McRae and Dyanne Walker

Mrs Doolann-Leisha Eatts, a Nyoongar elder, welcomed guests to the exhibition, which was formally opened by Deputy Vice Chancellor Professor Patrick Garnett. Almost three hundred people visited the exhibition. Students' families, friends and colleagues were awed by their talent and the quality and depth of the exhibition.

Tracy Northwood produced three pieces of art to portray pregnancy and parenting as part of a woman's normal life cycle and social events.



Tracy Northwood

In contrast, Rachel Howells' and Lorraine Wheildon's project aimed to increase awareness of the importance of body image and self-esteem in pregnancy. They used well known portraits of pregnant women to show how underlying cultural and societal attitudes affect social image which often impact on a woman's perceptions of herself and her pregnancy.

Tracey Tenaglia and Dionne Hopkins used patchwork to explore the Class of 2004's journey along the path to midwifery. For them, the medium of a patchwork quilt symbolized the qualities of midwives – the providers of comfort, warmth and reassurance to women and their families.



Tracey Tenaglia and Dionne Hopkins

In the days leading up to the Exhibition the students felt that this was the most difficult university assessment they had ever undertaken. However, once it was over they expressed immense satisfaction and pride in their achievements.

As Midwifery student Grace Buchanan said, "This course has meant a new beginning. It is a true journey of discovery".

Grad Futures

I am sure you are all familiar with the Graduate Destination Survey (GDS) - GradsOnline. Each year in April and October, the Graduate Careers Council of Australia (GCCA) surveys university graduates. Graduates are asked whether or not they are employed full-time or part-time and, if so, their salary and main occupation.

At the same time they are asked if they are still seeking employment, in further study, or are unavailable for either. From these surveys the GCCA prepares a report known as GradsOnline (<http://www.gradsonline.edu.au/gradsonline/>). This report is for all Universities across Australia.

But have you ever wanted information specific to what ECU graduates do the year after they graduate?

The data that ECU collects for the GCCA - GDS surveys is shared with the ECU Career Advisory Service (CAS) and is used to produce 'GradFutures'.

'GradFutures' has been developed to provide current students /lecturers/the community prospective students with easy-to-read, summary results of the annual survey of graduates (Graduate Destination Survey) conducted by the Graduate Careers Council of Australia on behalf of the Department of Education, Science and Training (DEST) as they relate to ECU students only.

By going to GradFutures at <http://www.ecu.edu.au/SSC/Careers/gds/default.php> and selecting your Faculty/School and then choosing the major area of study (or double major if appropriate) you are interested

in, you will find current statistics for:

- according to Award distribution (eg Bachelor / Post Graduate Diploma / Master)
- annual salaries
- the age range of the graduates
- the gender distribution of the graduates
- the Industry groups into which the graduates were employed
- the employment sectors into which the graduates were employed, and
- the positions our graduate held at the time of the survey and who their employers were

If you would like another year group or additional statistics just contact Julie Howell in the Careers Advisory Service (j.howell@ecu.edu.au)

CAS is sure this information is of value to our current students, faculties and schools, lecturers and of course prospective students: As examples: 'GradFutures' can help faculties and schools demonstrate to students the importance of completing the GDS (and hence improve ECU return rates and therefore statistics).

In addition, it can provide you with the statistics that demonstrate your courses are really 'the start of a great career' along with showing you who is employing your graduates.

'GradFutures' is aimed at helping current students better prepare for employment. CAS encourages all students to begin their career management planning early.

Students can use 'GradFutures' as one source to find out where employment opportunities are.

They can then use this as a starting point for learning what skills and attributes employers are looking for.

Next they can use the resources available through the ECU Careers Advisory Service to begin making themselves 'the competitive applicant'. Access it at: <http://www.ecu.edu.au/SSC/Careers/>

What you probably did not know was that ECU 'GradFutures' has recently been updated!

And finally – some information on how CAS will be further developing GradFutures:

Statistics only ever tell 'one part of the story'. It is our aim to provide a Student Profile for every major (by the end of 2005). In this way users will be able to put a 'real' person's experience to the data, read about some of the highlights and challenges faced by students finding work in the field they are interested in, and gain a different insight into what some 'jobs' involve.

The current data is for 2002. Look for an email towards the end of October advising that the newest set of data for 2003 is available on the web.

Sneak Preview of ECU's New Website

The ECU Graduate Attributes Website is a joint initiative by Dr Joe Luca (CCI) and Associate Professor Lynne Hunt (CHS), who have shared their resources and ideas to extend faculty-based teaching initiatives into a project that has ECU-wide application.

The Graduate Attributes Website will serve as a repository for materials developed by ECU staff, provide an opportunity for staff to share resources, and link existing ECU websites.

For example, the Careers Advisory Service has already developed a considerable amount of Web-based material that directly applies

to the graduate attribute of 'Workplace Experience or Applied Competencies'.

The site will include password-protected fields for staff who would like to work independently from the site and create opportunities for ECU's instructional designers to model to academic staff the many ways in which each graduate attribute can be embedded in units and courses.

Further, it will offer opportunities for students to work independently to enhance their own graduate attributes.

In particular, it will offer new opportunities for ECU's off-shore staff and students and distance education students to develop graduate attributes.

The structure of the website has been established in consultation with interested staff and the content will be developed by working parties of staff who have a particular interest in one of ECU's graduate attributes.

Joe and Lynne hope that the website will be in place before Semester 1, 2005, so that staff can refer to it in their course, unit and assessment documentation.

The 2004 National Teaching Awards

The Vice-Chancellor's Awards for Excellence in Teaching are held once a year. The criteria for the awards include the production of an evidence-based teaching portfolio, which successful candidates may refine for subsequent presentation in the national teaching awards. In 2004, CHS has a number of staff that are interested in the development of teaching portfolios for the VC's Awards.

The national teaching awards are also offered annually. Each university in Australia may put forward three individual candidates as well large-scale teaching and learning projects in the institutional categories. To date, the individual categories have been organised in discipline groupings; though there has been some innovation in creating special categories for indigenous teachers, early career staff and best practice in teaching large groups.

Of approximately one hundred applicants, some 18 finalists are called to Canberra for the presentation ceremony, where the winner takes all. There is one winner in each category, and the Prime Minister's Award for Australian University Teacher of the Year is the most highly coveted prize. In 2004 ECU's two candidates in the individual categories are both CHS staff. Congratulations to Dr Magda Wajrak and Dr Chris Meredith, who prepared top-class applications. It is a significant honour to represent the university at a national level.



Magda Wajrak

Magda is an applicant in the early career category. She seeks to inspire students about chemistry: 'By sharing my love of chemistry with students I hope to arouse their scientific curiosity and provide them with appropriate tools to help them unravel some of the mysteries of science'. To do this she uses a number of strategies including, 'chemical demonstrations in lectures, analogies, computer modeling, simulation programs,

chemical jokes, industrial trips, concept questions and new discoveries sessions'.

Magda's teaching and learning objectives, which are implemented in all chemistry units, reflect authentic, independent, meaningful, life-long learning and allow students to develop their logical thinking and analytical skills, which are "vitally important in a scientific career".

Ultimately, no amount of good teaching will win the day. The important point is students' learning. The feedback provided by Magda's students indicates that she is a highly successful teacher and a worthy representative of the Faculty and the University.



Dr Chris Meredith

Chris has submitted an application in the Biological Sciences, Health and Related Studies category. His application identifies his ability to overcome student passivity in mass lectures using strategies such as zooming, modeling, mimicking and science drama. Chris also describes how his research as a molecular geneticist, has helped him launch innovative units in biomedical science, molecular biology, forensic genetics and human molecular genetics.

Particularly noteworthy in Chris's application is the range of teaching and learning projects in which he has been engaged as well as the close links he maintains in the science teaching community. His selection as an ECU candidate illustrates that it is not enough to be a good teacher; it is also important to show what else has been achieved to promote good teaching and learning in Universities.

We wish Magda and Chris the best of luck in Canberra.

Working to a Deadline

In early August, Professor Tony Watson announced at a Faculty Executive meeting that Nelson places had been allocated to specific areas of study and that new courses were to be created to accommodate these places.

Due to the new Higher Education Services Act (HESA), there was a deadline of only two weeks available for staff to complete this task. The Heads of School contacted their appropriate staff immediately and requested they begin the course creation process.

This announcement threw Suzanne Florian in the Teaching and Learning Office into action to provide staff with as much assistance possible in creating these new courses. Course requirement information and guidelines to assist in preparing the course proposals were sent to all staff immediately with the offer of personal help to enter the data into the Course Management System (CMS).

Appointments were made and Suzanne went from campus to campus meeting with staff, assisting with information on what was required to go into the proposal and the upload of information into CMS. Eleven new courses were created in total.

In addition to the courses, new outlines also had to be created at the same time as the proposal, as courses cannot be approved until all outlines are entered and approved. This threw Clare Ashby into the fray to assist staff with obtaining new unit codes, entering placeholders and assisting with the data entry for units into the CMS.

The School of Nursing and Public Health had over 40 units to be recoded which meant the unit information in old codes had to be transferred into the new codes in CMS. Unfortunately, there was no easy way to do this and each section had to be cut and pasted.

Clare and Suzanne spent one and a half days transferring all of this data over into the new codes to assist the school in meeting the deadline. Over 120 new unit outlines were created. All of the courses and units were submitted and processed prior to the deadline given by the Academic Secretariat and processed for a follow up quality approval by the Faculty Courses Committee (FCC).

Due to the large amount of courses and outlines FCC had to split their meetings into Courses only and Units only. Amendments and approvals are still in progress. It was noted during the course reviews that the courses had been created with a very high level of information and data, which was surprising due to the short time limit given. Well done to all of the staff involved in collating the data for these new courses.

It was a huge effort on the part of the Teaching and Learning Office staff and all of the school staff involved in creating the proposals – Dr Eddie van Etten, Professor Robert Newton, Cobie Rudd, Dr Carol Thorogood, Associate Professor Bronwyn Jones and Associate Professor Moira Sim, just to name a few. FCHS was noted as having the largest amount of new courses and outlines submitted, and commended by the Academic Secretary on meeting the deadline for them all.



L-R: Suzanne and Clare

Associate Professor Kate White, Head of the School of Nursing and Public Health, said, "I would like to formally acknowledge the great job Suzanne and Clare did in helping us all get the new courses up. Like lots of us, they put in a extra hours to help the Schools, however they also went that extra step in making themselves available at all times, sat beside staff to guide them when this was needed, answered all our questions (even the really dumb ones)..."

...I am sure we will find lots of errors and we all recognise that we are working in times a little in the dark. However, the positive attitude of these two to our every question, even when we kept asking the same one, the trouble they went to get the answers when they did not know them, the calmness in response to our panicked phone calls made an enormous difference. This was a wonderful example of team work and collaboration."



The School of Natural Sciences (SoNS) recently invited both primary and high school teachers to 'Have a break on us'. The Schools were presented with a portfolio of SoNS lecturers, offering the staff as guest lecturers to visit the school to conduct a demonstration or run a lesson. This is just one of many community outreach activities that SoNS is involved in.

On 18 August, Dr Magda Wajrak from SoNS was invited to present a number of interesting chemical demonstrations at Goollelal Primary School, Kingsley and Governor Stirling High School, Woodbridge, as part of National Science Week. Dr Wajrak presented her famous 'Magic of Chemistry' show to 50 very enthusiastic and eager years 3 to 5 students at Goollelal Primary School and to 400 year 8 and 9 students at Governor Stirling High School.

The demonstrations included exploring the amazing properties of a nickel-titanium alloy called 'Memory Metal', optical activity of sugar, reactivity of lithium and sodium metals in water, chemiluminescence reactions, oxidative power of hydrogen peroxide, reaction of magnesium with oxygen, acidity of 'dry ice' and many more. Using these interesting and eye catching demonstrations, Dr Wajrak explained chemical concepts to the students and excited them about chemistry.

The teachers were most impressed by the presentation:

"I just want to say a huge thank you for the demo and presentation; it was really fantastic. I spoke to quite a few of the students the day after your presentation and they all thought that it was fantastic, the students couldn't stop talking about the last demo that you did. Again thank you on behalf of the science staff, the students and especially me".

Levah Mavaddat, Chemistry Teacher, Governor Stirling Senior High School

"Magda, once again thank you for your presentation yesterday. The teachers and students were very impressed".

Michelle Smith, Science Teacher, Goollelal Primary School

School visits not only allow ECU to give something back to the community, but they also provide a wonderful opportunity for students, especially in high school, to find out about ECU courses and speak directly to the lecturers about their future studies.



Dr Magda Wajrak's 'Magic of Chemistry' show at Governor Stirling SHS.

School Visits



A PIRLer of a Visit

CHS visiting fellow, Associate Professor Billie Thurston, recently completed a successful visit to ECU to extend her existing research partnership with Associate Professor Lynne Hunt.

The visit was funded by the Canadian Foreign Affairs Department through its Program for International Research Linkages (PIRL).

Dr Thurston has initiated an international research program on women's participation in the development of domestic violence policy. It is a five-country pilot study funded by the Canadian Institute of Health Research (CIHR).

Dr Hunt and sessional staff member Rhonda Adamsam are heading the Australian component of the study.

Rhonda Adamsam is a women's health worker and co-coordinator of 'Women's Healthworks' in Joondalup. This background enabled her to use her networks to develop a highly successful program that found Billie, on her first working day, providing a keynote lecture to over 100 Western Australians involved in addressing domestic violence issues.

"It was an impressive turn-out", Lynne said, "The audience included refuge workers, government legislators, members of the police force and indigenous women directly involved in working to support survivors of domestic violence".

Dr Thurston has a particular interest in domestic violence as a health issue. Her visit was timely because Australian data on the high health costs of domestic violence is just emerging. She is also interested in the health issues of indigenous women and was able to share information about Canada's First Nation people with local Aboriginal women.



L-R: Dr Billie Thurston, Dr Colleen Fisher (CSESS), Jenny Gardiner (Curtin), Kedy Kristal (Pat Giles Refuge), and Lynne Hunt

Dr Thurston discussed with local legislators the new laws on restraint orders and domestic violence. The recent changes in Western Australian legislation echo similar moves in Alberta, and Billie was able to provide evidence on what has happened in Canada as a consequence of changes to the law.

"This is exactly how a PIRL grant should work", Dr Thurston said, "The aim of a PIRL grant is to share Canadian research evidence and to enhance international research networks".

A busy schedule saw Billie establishing research links across ECU Faculties and Western Australian Universities, as well as with people working in the area of domestic violence. A meeting with CHS Associate Dean (Research and Higher Degrees), Professor Linda Kristjanson - another Canadian - highlighted possibilities for future research opportunities.

Dr Thurston's future work with Dr Hunt may extend beyond research to creative teaching links as they move towards shared, on-line courses in women's health.



Dr Lynne Hunt and Rhonda Adamsam with visiting fellow Associate Professor Billie Thurston



Cross-Faculty meeting, L-R: Dr Lekkie Hopkins (CSESS), Dr Elizabeth Reid-Boyd (CSESS), Amanda Porrins (Women's Studies Practicum student), Dr Billie Thurston, Dr Susan Hall (Centre for Research for Women) and Dr Lynne Hunt

Spotlight on the School of Nursing and Public Health

One of the programs offered within the School of Nursing and Public Health is addiction studies. Undergraduate students mainly study this as a minor or supporting major, rather than as a major in its' own right. The reason for this is that the alcohol, tobacco and other drug field is relatively small and there are only small numbers of jobs available.

However, national policy, endorsed by all levels of government, is that health, welfare and other human service staff should have a good understanding of alcohol, tobacco and other drug use which enhances their skills. This is reflected in the fact that the students enrolled in undergraduate addiction studies at Edith Cowan University come from many areas, including psychology, justice and police studies, youth work, health promotion and social science.

Students always have the option of enrolling in other minors to complete their degrees and staff teaching in the area are aware that they can 'vote with their feet' if they wish. It is therefore very pleasing to receive comments like that which follows from one of the students.

I am writing to you in relation to the lecturers teaching the addictions studies course. I don't normally write letters of this nature but felt compelled to do so on this occasion.

Up until I began addictions studies, I had not encountered such professionalism or excellence in teaching. One example is the provision of marking keys for assignments. This provides a framework around which to structure information and leaves no room for second guessing the lecturer. This resource has enabled me to write more structured, relevant and disciplined essays.

I will certainly be using the skills learned to achieve great results for my remaining units. Another and more important aspect is the teaching staff.

I was privileged to have Michelle French for my first year units and found her to be informative and disciplined, yet compassionate. Her up- to- date knowledge and her (at the time, annoying) attention to detail (when marking assignments) marked the beginning of my road to writing disciplined papers.

Although resistant at first, I was grateful for her uncompromising expectations in the attainment of certain standards. By the time I completed my last assignment with Michelle, I had achieved this standard and had the essay published in Drug Wise magazine.

David Ryder as the co-ordinator of Addiction Studies is wonderfully patient and informed. David lends his great empathy for people, his extensive clinical, and life expertise to the learning experience.

He always makes himself available in relation to any aspect of the course and despite the large size of the class, is obviously interested in the individual's learning needs. David's wonderful sense of humour and use of group exercises contribute to a most enjoyable class-room experience.

I was a student in Shelley Beatty's Social Action unit and am currently participating in Preventive Practice this semester.

In terms of dedication to her students, ability to impart knowledge, compassion and obvious passion for ATOD issues, Shelley stands out as the best teacher I have ever encountered.

I use the term "teacher" because Shelley doesn't just lecture to students- she actually teaches. I believe there is a huge difference between the two terms. Her obvious care for students and willingness to "go the extra mile" is indicative of her empathetic nature.

Throughout the two 3rd year units Shelley has arranged a variety of resources to enhance our learning ability and experience. For example, Shelley has invited stimulating, evocative and relevant guest speakers on various occasions.

Shelley is also not content to "rest on her laurels"- through student surveys she continually evaluates all aspects of her teaching work.

Shelley, David and Michelle are all a credit to the School of Nursing and Public Health and to the university as a whole. It is refreshing to encounter teaching staff so enthused with their work and caring towards students.



L-R: David Ryder, Shelley Beatty and Michelle French.

ECU Library Update

The FCHS Library team provides a faculty and school approach to library services.

The library team is located across the metropolitan campuses to provide focused library support for Faculty staff and students to enable efficient use of library collections and services. Library staff, in partnership with faculty staff, also have a key role in developing and maintaining the library collection.

Lyn Leslie	Faculty Librarian SCIS	ML
Ian Kolk	Library Technician	ML
Lesley Hastings	Librarian: Nursing	CH
Pam Thornton	Librarian: Public Health, SOBSS	JO
Lynette Hirsch	Librarian: SONS, SoEM	JO
Beth Manning	Library Technician	JO/CH
Neil Lewington	Library Technician	JO

Key focus areas for the FCHS library team include:

Collection development

The team aims to develop a collection which reflects the curriculum and research profiles of the Faculty and supports student learning. Faculty order requests for new items are given priority and reading lists attached to unit outlines are checked to ensure key materials are held by the library. Subject librarians also select items to support the various program areas.

The team is able to locate material to update a reading list, to create a bibliography of new material on a subject or to update particular editions. The librarian can also be of assistance identifying key library resources for new courses.

To ensure the library has the best journal collection for the funds available, the Faculty Librarian is able to work with a Head of School or program area and the library team to assess journal collections meet current needs.

Librarians monitor course changes and developments and, from time to time, may request an updated program profile to ensure library needs for an area are current. The Faculty Librarian monitors order throughput in relation to available funds and regularly reports on the status of the library collections and access budget.

Electronic journals and databases

New journal titles are increasingly being requested in electronic format. Some recent online journal packages which have benefited the faculty include: Springer Link, Kluwer Online and the Oxford and Cambridge University Presses. Individual journal titles can be accessed via the library catalogue.

Some databases provide an option to narrow the search to refereed journals. When checking whether specific titles are refereed, use the Ulrich's Web database.

Recent database acquisitions of note are: Standards Australia Online and the Journal Citation Reports (ISI) - (Made available via the Office of Research Services).

E-reserve

A relatively new initiative which has bedded down quite well this year, e-reserve, provides the flexibility to access reserve collection articles

online. Hopefully missing items from this high demand area will soon be a thing of the past. Forms and further information can be located on ECU Library Online <http://www.ecu.edu.au/library/services/ereserve.htm> or by talking to your library team representative.

Course specific library support

Another area of focus for the team is to provide assistance to staff and students in how to locate and use information resources. Learning assistance through formal workshops; web based modules, and the preparation of subject guides are some of the options used to provide students with specialised assistance.

We encourage staff to work with their librarians if they feel this service would benefit their students. Sessions are more relevant if they can be tailored to the needs of the students and exercises related to course content.

Academic staff or students may also contact their librarian with a query or to set up an appointment for a more detailed discussion. We are able to provide extra assistance to students who are having difficulty finding relevant information. Remote students are able to email for assistance with locating information and using library resources.

Postgraduate support

When preparing their literature review, postgraduate students often find it useful to discuss library resources and services with their subject librarian. Queries may be emailed or an appointment set up to discuss information strategies in more detail.

Academic staff may also refer individual students to their subject librarian for an appointment or, if preferred, a group workshop can be arranged for new postgraduate students.

Emirates Group Security Scholarship

The School of Engineering and Mathematics is pleased to announce an outstanding opportunity for Security and Justice/Policing students at ECU – a funded professional development placement with one of the worlds top airlines and most highly regarded aviation security operations – Emirates!

Emirates Group Security is offering a six week international practicum placement in aviation security policing with four weeks of study in Dubai (UAE) and two weeks in another part of the world (Mystery!) for two (2) students to undertake real world experience and put their theory into practice!

This placement is an outstanding opportunity and has an estimated value of A\$70,000!

The placement will take place in Summer Semester and will fulfil the requirements for up to a full semester of study (Four units!) however there are academic tasks which will need to be undertaken.

A formal interview and short presentation with a panel from ECU and the security industry will take place for those shortlisted.

A cultural sensitivity workshop will also be conducted as part of the programme.

A Strategic Focus for Learning Advising

Learning support for students is crucial to the successful acquisition of graduate attributes, in particular academic skills such as written and oral communication and information literacy. Whilst these skills and attitudes are embedded in teaching and learning processes, not all students learn from them easily.

Many need structured and explicit opportunities to develop skills that will be essential to their academic progress and future careers. Learning advising is the conduit that connects and strengthens teaching and learning by providing appropriate support for skills development.

Dr Kuki Singh, CHS's new Learning Adviser, wants to build cooperative and collaborative working relationships with staff to promote effective learning. She notes that, "I view the role as being both complementary to mainstream teaching, with the dual dimensions of supporting and developing students' learning".

She signalled a paradigm shift within the field of learning advising which she understands to be more strategic in two ways. "The first", she said, "focuses on the relationship between the student and the learning experience. This is about understanding students' learning needs within the context of the discipline area and the course. It can be understood either from a deficit or a developmental perspective". Working strategically favours a developmental approach.

Her second broad aim, concerns the role played by lecturers and other professional staff, such as instructional designers and materials developers. "I would like to build networks and opportunities for me to work strategically with staff to enhance students' learning as part of an integrated team approach. I want to help staff to find alternative ways of dealing with teaching and learning issues and solving problems".



Taking the lead from the work that is already being done in the Faculty, she wants to promote a proactive and planned approach to skills acquisition that is both integrated into teaching and assessment and constructed to achieve the graduate attributes outcomes. This will raise students' awareness of learning processes and provide opportunities to practice the skills within relevant learning tasks and assessments. "To this end, I would like to work alongside lecturers to embed skills development. To achieve this, I will target core units".

She wants to reach students early in their studies. "The inclusion of study skills sessions, within orientation programs, offers a means of raising students' awareness about learning and communication skills. This is also a useful way of tailoring induction to specific courses". It is important that initial support is sustained and integrated into the ongoing learning program.

To optimise success and retention, her initiatives will include: opportunities for action research projects that inform teaching; shifting the emphasis from working individually with students to working with small groups and entire cohorts of students; implementing a referral system sufficiently early to identify at-risk students; and appropriate interventions to provide English language development for students for whom English is an additional language. In particular, Kuki will be working with staff to support offshore students, who will benefit from closer collaboration between staff and the implementation of innovative, online learning support strategies.

For these broad goals to materialise, Kuki seeks to forge strong links with CHS Schools, "I look forward to invitations to attend staff meetings and to working closely with course coordinators, individual lecturers, and the instructional designers on projects to enhance student learning in CHS".

LINKAGE PROJECTS ROUND 2 FOR FUNDING IN 2005

The application form for Linkage Projects Round 2 is now available on the ARC GAMS system.

Applications will close at 5.00pm (AEST), Friday 26 November 2004.

Visit the ARC web site at <http://www.arc.gov.au>

VC's AWARDS FOR EXCELLENCE IN TEACHING

Nominations are now open for the Vice-Chancellor's Teaching Awards. Winners receive \$5000 and seed nominations for the prestigious Australian Awards for University Teaching.

Applications close on 12 November 2004.

For more information visit http://www.ecu.edu.au/LDS/pd/teaching_awards/t_awards.htm

Research Grants				
Recipient(s)	Funding Body	Title of Grant	Project Title	Amount Granted
Hands, B., Parker H, Rose, E. and Larkin, D.	Telstra Foundation: Prevention of Obesity	Telstra Foundation :Prevention of Obesity	Hi five for Kids. Promoting higher levels of physical activity in children	\$65,000
Nosaka, K.	Ajinomoto Co. Inc.		Effect of amino acid supplement on exercise-induced muscle damage and muscle soreness	\$24,910
Leslie, G.	Nurses Memorial Trust		Clinical Placements of Nurses in Western Australia: A project to access and improve the quality and scope of clinical education.	\$11,500
Cross, D. and Waters, S.	Cancer Council Western Australia		Formative evaluation of a physical activity and nutrition program for Western Australian primary schools	\$5,000

Research Reports		
Authors	Title	Publisher
Waters, S., Cross, D., Hamilton, G. and Hall, M.	Formative Evaluation for the Road Aware Parents Program	Child Health Promotion Research Unit, Edith Cowan University

Strategic Alliances / Partnerships			
Name	School	Institution / Organisation	Description
Sim, M.	Nursing and Public Health	Osborne Division of General Practice	Facilitated the establishment of a MOU
Cross, D.	Nursing and Public Health	Core-Net: International Network on Relationships, School Bullying and Violence	Six major international research groups collaborating to reduce bullying and violence in schools

Child Health Research Grant

ECU's Child Health Promotion Research Unit has recently been successful in securing a Healthway starter grant, worth \$20,000, and a three year intervention research grant, worth over \$300,000.

Both grants are for the design and implementation of health interventions for schools, with a focus on "reorienting the role of the school nurse and reducing the impact of bullying on primary school students as they move through the transition from Year 7 to Year 8", says Unit Co-Director Stacey Waters.

Palliative Care Grant

A National Institute of Health (NIH) Grant of \$US1.9 million was awarded to the WA Centre for Cancer and Palliative Care and the following individual investigators: Professor Harvey Chochinov, Faculty of Medicine, University of Manitoba, Canada; Professor Linda Kristjanson, from our very own CHS Faculty at ECU; and Professor Bill Brietbart,

from Memorial Sloan Kettering Cancer Institute in New York.

The grant will be used to undertake a randomised clinical trial to test the effectiveness of an intervention to enhance the dignity of patients in the end stages of

Other Grant Wins

Bill Hutchinson, SCIS Associate Professor (Information and Computer Security) has obtained several substantial grants this year. Firstly, the ARC Linkage grant with MIS for \$113,000 over 3 years, one third of which goes to SCIS. With Dr Craig Valli; the ARC Discovery grant (with Deakin University) for \$80 000 over 2 years, of which SCIS gets half; i.e. \$20,000/yr for 2 years. Finally, an Industry grant with the Defence Signals Directorate, worth \$42,000 over one full year.

Dr Paul Laursen has won an ECU Early Career Researcher's Grant for \$13,000.

Dr Michael McGuigan has won an ECU Early Career Researcher's Grant for \$10,000.

Professor Robert Newton has won an ECU Industry Collaborative Scheme Grant for \$29,603.

General News

After three years, Lidia Cuoco has resigned from the Office of Research and Higher Degrees to take up a position at UWA. Her temporary replacement is Rose Maniaci.

Rose can be contacted at Churchlands on 9273 8595 or at Joondalup on 6304 2595 or r.maniaci@ecu.edu.au

Rebecca Treloar-Cook will be on secondment to the Graduate School for 11 months from October 2004 and her replacement is Christianne White.

Christianne can be contacted on 6304 2593 or c.white@ecu.edu.au

Article in Refereed Journal			
Authors	Title of Article	Title of Journal	Volume and Pages
Hinwood, A. et al	Exposure to inorganic arsenic in soil increases urinary arsenic concentrations of residents living in old gold mining areas.	Environmental Geochemistry and Health	26, 27-36
Van Etten, E.J.	Comparing plant species diversity of mountainous deserts – successes and pitfalls	Korean Journal of Ecology	27, 79-86
Van Etten, E.J. and Fox, J.E.D.	Vegetation classification and ordination of the central Hamersley Ranges, Western Australia.	Journal of the Royal Society of Western Australia	87(2)
Hussain R., and Bittles A.H.	Assessment of the association between consanguinity and fertility	Journal of Health, Population and Nutrition	22, 1-12
Bittles, A.	Consanguinity and cervical cancer: a quizzical response.	Med Hypotheses	62(6):1021-2
Bittles A.H., Sullivan S.G., Zhiotovskiy L.A.	Consanguinity, caste and deaf-mutism in Punjab, 1921	J Biosoc Sci.	36(2):221-34.
Koenders A., Lamey T.M., Medler S., West J.M. and Mykles D.L.	Two fast-type fibers in claw closer and abdominal deep muscles of the Australian freshwater crustacean, <i>Cherax destructor</i> , differ in Ca ²⁺ sensitivity and troponin-I isoforms.	Journal of Experimental Zoology	301A, 588-598
McGuigan, M. and McBride, J.	Response to a critical analysis of the ACSM position stand on resistance training: insufficient evidence to support recommended training protocols.	Journal of Exercise Physiology Online.	7: 1-2
Peake, J., Wilson, G., Hordern, M., Suzuki, K., Yamaya, K., Nosaka, K., Mackinnon, L. and Coombes, J.S.	Changes in neutrophil surface receptor expression, degranulation, and respiratory burst activity after moderate- and high-intensity exercise	Journal of Applied Physiology	97: 612-618
Van Elven, B.R., Lavery, P.S. and Kendrick, G.A.	Reefs as contributors to diversity of epiphytic macroalgae assemblages in seagrass meadows	Marine Ecology Progress Series	276: 71-83
Sim, M., Hulse, G. and Khong, E.	Injecting drug use and skin lesions	Australian Family Physician	Vol 33 (7) 519-522
McGuigan, M. and Kane, M.K.	Reliability of Performance of Elite Olympic Weightlifters	Journal of Strength and Conditioning Research	18: 650-653
Kuroki, R. and Nosaka, K.	Influence of force level and fatigue on bilateral deficit of the elbow flexors during isometric contraction	Japanese Journal of Physical Fitness and Sports Medicine	53: 379-390
Hulse, G., Sim, M. and Khong, E.	Management of the impaired doctor: Alcohol and Other Drug Case Studies from General Practice.	Australian Family Physician	Sept 2004. 33(9), 703-707.
Khong, E. and Wain, T.	The growing challenge of party drugs in general practice.	Australian Family Physician	33(9), 709-713.
Sim, M., Hulse, G. and Khong, E.	When the Child with ADHD grows up	Australian Family Physician	33 (8), 615-618.
Leggett, M., Kinnear, A., Boyce, M., and Bennett, I.	Student and staff perceptions of the importance of generic skills in science	Higher Education Research & Development	Vol 23, No 3 Pages 295 - 312
Drussi, C. and Jansz, J.	Pollution Control through the Profitable Use of Mining Waste.	World Safety Journal.	14 (1), 13-15
Verdonk, A., Nedved, M. and Jansz, J.	A retrospective cohort study of workers compensation indicators (part 3).	World Safety Journal	14(1), 22-27
Jansz, J.	Why is Occupational Safety and Health a Crucial Management Issue for Nurse Managers?	World Safety Journal	14(2), 29-35

Book Chapter				
Authors	Title of Chapter	Title	Publisher	Venue
Jansz, J.	Occupational Health and Safety. pp. 117-127	Nurse Managers. A Guide to Practice	Ausmed Publications	Melbourne, Victoria

Article in Non-Refereed Journal			
Authors	Title of Article	Title of Journal	Volume and Pages
Jansz, J.	Ergonomics in the Process Industries	National Safety	75(4), 49
Hanrahan, F. and Jansz, J.	Crash Tacklers	National Safety	75(3), 26-28

Article in Refereed Conference Proceedings			
Authors	Title of Proceedings	Title of Article	Page Numbers
Hingston, P. and Kendall, G.	Proceedings of the 8th International Conference on Parallel Problem Solving from Nature (PPSN VIII)	Hawks, Doves and Lifetime Reproductive Success	862 - 871
Combes, B.	Australian Computers in Education Conference Proceedings	The culture of information usage, plagiarism and the emerging Net Generation	On CD-ROM
Heiden, T. and Burnett, A.	XXIInd International Symposium of Biomechanics in Sports.	Determination of heel strike and toe-off in the running stride using an accelerometer: Application to field-based gait studies.	98-101
Burnett, A., Doyle, M. and Elliott, B.	Proceedings of the XXIInd International Symposium of Biomechanics in Sports.	Continuous registration of the hand-curve in rowing: Differences between scull and sweep rowers.	207-210
Burnett, A., Beard, A., Newton, R. and Netto, K.	Proceedings of the XXIInd International Symposium of Biomechanics in Sports.	A comparison of methods to calculate the optimal load for maximal power output in the power clean.	434-437
Combes, B. and Ring, J.	Constructing communities of learning and literacy	'If you help us build it, we will come!' - the role of the teacher librarian as an online curriculum facilitator and innovator.	81-85
Williams, T.	New Zealand Action Research Network Conference	Using action research to investigate electronic information use in the decision making processes of Australian general practitioners	18-19
Rose, E., Sacco, P., Cox, K. and Scotson, K.	Proceedings of the 9th Annual Congress European College of Sport Science (ECSS)	The relationship between self-efficacy and perceived exertion during exercise with older adults	167
Gibson, B. and Fadi, M	Proceedings of the 9th Annual Congress European College of Sport Science (ECSS)	The Coaches Effective Leadership Model	287
Fadi, M and Gibson, B.	Proceedings of the 9th Annual Congress European College of Sport Science (ECSS)	Problem Solving Techniques of Expert Soccer Coaches	288

Article in Non-Refereed Conference Proceedings			
Authors	Title of Proceedings	Title of Article	Page Numbers
Vellekoop, S.E. and Van Etten, E.J.	Goldfields Environmental Management Group 2004 Workshop on Environmental Management in Arid and Semi-arid Areas – Proceedings.	Impact of discharge of hypersaline water from the Cuddingwarra prospect on the fringing vegetation of Lake Austin.	57-70
Dave, H. and Boyce, M.	INTERACT2004	Study of Sandalwood fragrance using SPME-GC-MS	44

Referee of Journal Article(s)		
Name	Title of Journal	Date of Publication / Copyright
Koenders, A.	New Zealand Journal of Marine and Freshwater Research	
McGuigan, M.	Medicine and Science in Sports and Exercise	6-Aug-2004
McGuigan, M.	The Journal of the American Board of Family Practice	6-Aug-2004
McGuigan, M.	British Journal of Sports Medicine	12-Aug-2004

Paper presented at a Conference				
Authors	Conference	Title of Paper	Venue	Poster / Oral Presentation / Keynote Address
Perry, M., O'Sullivan, P., Dankaerts, W., Burnett, A., Straker, L., Bargon, G., Maloney, N. and Tsang, S.	New Zealand Society of Physiotherapists Conference	Trunk EMG and kinematics during static and dynamic sitting	Christchurch, New Zealand	Oral Presentation
Combes, B.	Info Smart Learners, School Library Association South Australia (SLASA) 2004 Conference	Flights of fantasy or core business: Literature Circles online	Education Development Centre	Workshop
Laursen, P.	NSCA 2004 National Conference	Influence of high-intensity interval training on adaptations in well-trained cyclists	Hyatt Regency - Minneapolis, MN	Oral Presentation
Nosaka, K., Lavender, A.P. and Newton, M.J.	9th Annual Congress European College of Sport Science	Comparison of changes in indices of muscle damage between eccentric and concentric exercise of the elbow flexors	Clermont-Ferrand, France	Poster
Nottle, C. and Nosaka, K.	9th Annual Congress European College of Sport Science	Downhill backward walking: a model for exercise-induced muscle damage (EIMD)	Clermont-Ferrand, France	Poster
Lavender, A.P. and Nosaka, K.	9th Annual Congress European College of Sport Science	Comparison between young and elderly males for responses to unaccustomed eccentric exercise	Clermont-Ferrand, France	Oral Presentation
Jamutas, A.Z., Nosaka, K., Theocharis, V., Tofas, T., Yfanti, C., Paschalis, V. and Koutedakis, Y.	9th Annual Congress European College of Sport Science	Comparison between leg and arm eccentric exercise of the same relative intensity on indices of muscle damage	Clermont-Ferrand, France	Oral Presentation
Dave, H. and Boyce, M.	International diffuse reflective conference	Interaction of water with Sandalwood	Chambersburg, PA, USA	Poster
Meredith, C.	CONASTA 53	DNA Detectives	Rydges Lakeside, Canberra	Oral presentation
Meredith, C.	CONASTA 53	Nature versus Nurture: the War is Over	Rydges Lakeside, Canberra	Oral presentation
Meredith, C.	CONASTA 53	A Dummies Guide to the Theory of Everything	Rydges Lakeside, Canberra	Oral Presentation
Meredith, C.	CONASTA 53	The Science of Magic	Rydges Lakeside, Canberra	Oral Presentation
Ranson, C., Burnett, A., Kerslake, R., O'Sullivan, P. and Batt, M.	ECB Science and Medicine in Cricket Conference	MR Imaging functional cross-sectional area of the lumbar paraspinal muscles in fast bowlers in cricket	Loughborough, England	Oral
Ranson, C., Kerslake, R., Burnett, A., Batt, M. and Abdi, S.	ECB Science and Medicine in Cricket Conference	MR Imaging abnormalities of the lumbar spine in professional fast bowlers in cricket	Loughborough, England	Oral

CONFERENCES

Authors	Conference	Title of Paper	Venue	Keynote Address
Fowler, T, McBride, T. and McGuigan, M.	National Strength and Conditioning Association Meeting	The effects of various modes of resistance training on balance and functional abilities of 60+ yr old females.	Minneapolis, USA	Oral Presentation
Ghiagiarelli, J., McGuigan, M., and Tod, D.	National Strength and Conditioning Association Meeting	Maximal strength and cortisol responses to psyching up during the squat exercise.	Minneapolis, USA	Oral Presentation
Winchester, J., Neils, C., Udermann, B., Brice, G., and McGuigan, M.	National Strength and Conditioning Association Meeting	The effect of traditional speed versus superslow resistance training on strength, power and body composition.	Minneapolis, USA	Poster
Nosaka, K.	2nd Meeting of the Japanese Society of Exercise and Immunology	Eccentric exercise-induced muscle damage and inflammation	Saitama, Japan	Invited lecture
Cross, D.	Combine Schools Parent Information Session	Friendly Schools and Families Program	Applecross Senior High School	Keynote
Cross, D.	School of Public Health: Celebrating 25 years	Developments in evidence-based research in Public Health in Western Australia	Curtin University	Oral presentation
Erceg, E.	Safe Schools: Countering Bullying in Schools Conference	How can parents become more involved?	Perth	Oral Presentation
Cross, D.	Taking Fear out of Schools	Friendly Schools and Families	Stavanger University, Norway	Oral Presentation
Cross, D.	The Third World Conference on the Promotion of Mental Health and Prevention of Mental Health and Behavioural Disorders	Collaborative Bullying Reduction Strategies in School and Family Settings to Enhance Mental Health Status of Children	Auckland, NZ	Oral Presentation
Cross, D.	School Liaison Officers and School Principal's Conference	Our Youth of Today	Floreat Forum	Oral Presentation
Cross, D.	Common Curriculum Day Conference	Young people and violence: What's the evidence for prevention?	Brauer College, Warrnambool	Keynote Address
Cross, D.	School Development Day - Hospital School Services		Bentley Health Service	Keynote Address
Cross, D.	Warrnambool College: Whole School Approach to Bullying and Harrasment	Friendly Schools and Families Program	Warrnambool	Keynote Address
Cross, D.		Winning Research Grants	Edith Cowan University	Oral Presentation
Cross, D.	Colloquium on Bullying	Planning for the Future	Brisbane	Oral Presentations
Meredith, C., Herrmann, R., Parry, C., Dye, D.E., Liyanage, K., Durling, H., Duff, R., de Vissor, M., Hedera, P., Fink, J., Petty, L., Voit, T., Mastaglia, F.L., and Laing, N.G.	28th Annual Scientific Meeting of the Human Genetics Society of Australasia	Mutations in the β -cardiac myosin gene in distal myopathy	Fremantle	Oral Presentation
Rose, E., Sacco, P. and Cox, K.	European Congress for Sports Science (ECSS)	The relationship between self-efficacy, and perceived exertion in exercise with older adults	Clermont- Ferrand, France	Oral presentation
Larkin, D., Boyle, T., Licari, M. and Rose, E.	International Neurophysiological society (INS) Annual Meeting	Identificaion and assessment of Developmental Coordination Disorder		Oral presentation

Genetics and Population Health Conference

The Conference on Genetics and Population Health convened by Professor Alan Bittles from the Centre for Human Genetics at ECU and Dr Wendy Erber (PathCentre Department of Haematology) was held in Fremantle on 8-10 August, 2004, with preceding satellite meetings on 7-8 August. Over 230 delegates from 23 countries attended the five days of events that were co-sponsored by the World Health Organization.

The meetings provided a unique opportunity to examine the differing perspectives on genetics and health in various low-income countries, set within a framework of topics of major significance to all world populations. The key aims of the Conference were to act as a catalyst for active regional and global scientific collaboration, and to improve the health of people across the globe.

Among the first issues discussed was the growing international impact of thalassaemia, a genetic blood disease causing severe anaemia that is common in Mediterranean countries and among the populations of South East Asia. Changes to Australia's migration patterns have led to a big jump in the numbers of people with this hereditary disorder, with alpha-thalassaemia increasingly prevalent in Western Australia.

With this in mind, planning for an Australasian Thalassaemia Network is already underway,

strongly supported by Professor Sir David Weatherall of Oxford University, principal author of the WHO Report on Genomic Medicine launched in May, 2004.

The major Conference themes included: Haemoglobinopathies as a Paradigm of Genetic Disease, Human Genetic Variation and its Disease Implications, and Meeting Community Needs.

The latter sessions were organized in conjunction with the Australasian and International Alliances of Genetic Support Groups and dealt with future directions in the provision of community care for genetic disorders, and best practice public education and genetic counselling programs. These topics also were addressed in the final talk by Professor Alan Bittles, who highlighted the importance of improving our knowledge about the population genetic and social structures of communities.

Besides providing better information on the prevalence and distribution patterns of specific inherited disorders, this would greatly assist in the planning and delivery of culturally and linguistically appropriate clinical and counselling advice in today's multi-ethnic societies. In turn, meaningful community genetic/public health approaches can then be adopted for both the prevention of disease and the equitable provision of care.

Palliative Care Conference

The WA State Palliative Care Conference was co-hosted last week by ECU and Palliative Care WA. The conference was a huge success, attended by approximately 500 people over the two days.

The Conference featured a special workshop for volunteers in palliative care, a symposium for rural palliative care professionals, and a public forum that attracted approximately 200 people. It was aimed at an interdisciplinary audience of doctors, nurses, allied health professionals, pastoral care workers, volunteers, palliative care managers, government agencies and industry providers.

Dr Will Cairns from Queensland was the keynote speaker at the main conference and inspired the palliative care community to meet new challenges of providing care to a wider population of individuals facing end of life care concerns.

The public forum featured a presentation by Geraldine Doogue who spoke on the topic, "Character-Building Times". She reflected on issues of loss and grief facing the international community in the light of recent disasters and terrorist activities.

Geraldine invited us to consider how we might stay responsive and informed on these issue and yet maintain hope and a sense of purpose in our lives and in our work.

TV/Radio/Media Participation					
Name	School	Program/Article Title	Radio/TV Station or Publication	Date	Topic
Koenders, A.	Natural Sciences	5pm news	Network 10	7-Jul-04	Potential contributions of research on animals to treatments of muscular dystrophy
Cross, D.	Nursing and Public Health	Coping with the blackboard jungle	Health and Medicine: The West Australian	21-Jul-04	Bullying research
Beatty, S.	Nursing and Public Health	Are your kids on drugs?	The West Australian Newspaper	9-Aug-04	Strategies parents can use to decrease the likelihood of their children participating in harmful alcohol, tobacco and other drug use
Laursen, P.	Biomedical and Sports Science	Tired muscles? Don't blame lactate	ABC Science Online (Anna Salleh) http://www.abc.net.au/science/news/stories/s1180597.htm	20-Aug-04	Lactic acid and fatigue
Meredith, C.	Biomedical and Sports Science	Collage Programme: Health Issues	Radio Fremantle 107.9 FM	1-Sep-04	Distal myopathy mutation discovered

Dr Darryl Turner



Not even the thought of climbing Mount Everest fazes Dr Darryl Turner, who is very much a man of the outdoors. Dr Turner, who heads the Rehabilitation Centre on campus at Joondalup, is actively promoting health and wellness and acts as a role model for his five children. "Out of adversity comes appreciation," is Dr Turner's favourite quote.

Dr Turner is a builder by trade, and has always done sports coaching as a hobby. In 1989 he applied for mature age

entry into ECU and went on to complete an Honours degree in Sports Science. He received a scholarship to do his PhD studies at ECU and worked part time at a medical centre working with pain management patients. Dr Turner completed his PhD in 1999 and started working at the on-campus rehabilitation centre.

The Avon Descent is familiar terrain for Dr Turner. This annual Perth event draws large crowds and a variety of competitors. The 2004 event was Dr Turner's eighth and he competed in the ski double male category on behalf of the Mullaloo Surf Life Saving Club. Every Saturday morning leading up to the day Dr Turner practised ski paddling. The waters were low this year, which made it easier in some ways but more difficult in terms of energy output.

The race, says Dr Turner, is all about endurance – making it to the end is the goal. The entire journey took Dr Turner's team about fifteen to sixteen hours – not bad when you consider that the winners took around eleven or twelve.

At one point, their ski cracked and so they had to continually tip the water out, a difficult task considering the weight of the boat. All in all, an interesting journey – and the camp side dinners were whipped up by a Qantas chef (so much for 'roughing it').

He also recently completed the Cape to Cape Walk from Augusta to Leeuwin (134km) that boasted winds of 135 mph. The experience, says Dr Turner, was testing, but the stunning coastline views and varied terrain made the walk an enjoyable one.

Currently on the agenda is Mount Everest. Training to climb 21,000 feet, Dr Turner and his daughter, who is studying first year Police Studies at ECU, have kept to a tight program every week. Their main training comprised treadmill work, long walks, and general fitness. They used Jacob's Ladder in King's Park as a weekly challenge and practiced carrying heavy backpacks (around 25 kg).

Dr Turner's daughter is trying to raise funds for children with organ transplants to travel to the east coast and participate in large sporting events.

The 31 day tour over September/October is run by 'World Expeditions' and promises a 'challenging' but 'touristy' experience. When asked how he was planning to deal with the alien conditions, Dr Turner said, "You can't help mountain sickness!"

Professor Nara Srinivasan



Professor Nara Srinivasan, Professor of Security and Risk Management in the School of Engineering and Mathematics, has come from an interesting background and is currently working in several demanding roles. From 1991 to 2001, Professor Srinivasan was the Head of Justice and Business Law at Edith Cowan University. He assisted in establishing the Joondalup Police Academy in 2000, and was

involved in the tender to have the institution co-located within ECU.

Professor Srinivasan moved on to be the Dean of the Business School at Murdoch University between 2002 and 2003, but returned to ECU given the prospect of working with Emirates Airlines and the United Emirates Government on a range of programmes. Around 50% of Professor Srinivasan's time is allocated to teaching, with the remainder being focussed on the supervision of overseas projects and general management duties.

As Dean of the Transguard Education Academy in Dubai, he visits once a month to run programs and check the quality of operations. Professor Srinivasan deals with the link between business and terrorism, a big part of which is the current regulatory requirements post-9/11 detailed in the Homeland Security Act, and how they affect business.

The newly introduced Patriot Act (USA) is instrumental in the global anti-terrorism effort and consequently highly relevant to Professor Srinivasan's work. He is also concerned about trade liberalisation issues in the Asia Pacific Region.

The Professor is leading the development of two new courses at ECU, set to launch in 2005 - the Bachelor of Science (Security Management) and the Master of Science (Security Management). He is proud to be involved with the first professional undergraduate and post-graduate security course in Australasia at ECU. Professor Srinivasan is interested in the possible cross-disciplinary links between business, IT and security courses across Australian universities.

Professor Srinivasan's duties include marketing ECU's specialist courses, and the next two years will see a two-pronged effort to market the security discipline to new students, currently a big market nationally. Says Professor Srinivasan, "A lot of current and potential students are already working in security but face pressure to obtain relevant qualifications".

In terms of the future, Professor Srinivasan sees initiatives with government exploring the links between security and mining, banking and other industries.

This edition of the Faculty Newsletter was written and produced by third year PR and Advertising student Kira Rikkers.