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http://www.uow.edu.au/research/newsletter/
New Staff at RSO
Janine McFarlane has recently joined the Research Services Office team as an Ethics and Grants Officer (Carrick Grants) and may be contacted on x 5908 or by e-mail on janinemc@uow.edu.au
Janine is located in Building 20, upstairs in the Research Services Office.

Carrick Grants
The Carrick Institute, named after Sir John Carrick KCMG the Commonwealth Minister for Education from 1975-79, was launched in August 2004. The Institute is dedicated to promoting better quality learning and teaching in Australian higher education. The Institute has $9.4 M to dedicate to three funding streams Leadership, Competitive Grants and Priority Projects in 2008. This is an exciting opportunity to develop learning and teaching skills across all UoW faculties and also promote greater collaboration of teaching resources and experiences between UoW and other higher education institutions. The Research Services Office and CEDIR are working together to assist interested applicants to make the most of this exciting opportunity. An information workshop is being held on Thursday 10th January (10:30am to 12:30pm). Bring your teaching and learning ideas, for support with your application. For more information regarding Carrick Grants please visit http://www.carrickinstitute.edu.au/carrick/go/home/grants or call Janine McFarlane in the Research Services Office on 4221 5908.

Need Assistance with your Grant Application?
- Statistical Advice available
The Statistical Consulting Service (SCS) in the School of Mathematics and Applied Statistics provides UOW researchers with statistical advice. They can advise on planning surveys and experiments, statistical analysis, presentation of results and preparation of grant applications. For more information, or to arrange a meeting, see http://www.uow.edu.au/informatics/mathsciscs/ or email statcon@uow.edu.au.

Upcoming Funding Opportunities, Deadlines & Information

<table>
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<tr>
<th>Due Date</th>
<th>Activity</th>
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<tbody>
<tr>
<td>5th Dec. 2007</td>
<td>IMB Community Foundation Information Session</td>
</tr>
<tr>
<td>10th Jan 2008</td>
<td>Carrick information workshop (10:30 to 12:30) <a href="mailto:janinemc@uow.edu.au">janinemc@uow.edu.au</a></td>
</tr>
<tr>
<td>11th Jan 2008</td>
<td>Carrick - Competitive Grants UoW Notice of Intent (NoI) due</td>
</tr>
<tr>
<td>25th Jan. 2008</td>
<td>Letter of request due to IMB Community Foundation</td>
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<tr>
<td>28th Jan 2008</td>
<td>Carrick – Leadership Grants UoW NoI due</td>
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<tr>
<td>7th Feb 2008</td>
<td>Carrick – Priority Projects UoW NoI due</td>
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IMB Community Foundation
The Foundation is calling for applications for funding in 2008. The Foundation supports projects that reflect its objectives, which include enhancing the economic diversification and development of communities, promoting mutual and self-help philosophies and enhancing the economic self sufficiency of communities. The Research Services Office is holding an information session for applicants on Wednesday, 5 December 2007 from 10.30am to 12.00pm in Building 20, Lecture Theatre 2. All interested applicants are encouraged to attend the session which will include a presentation by Stuart Waters from the IMB Community Foundation.

Please confirm your attendance to Sharon Clarke clarkeuoweduau or phone 4221 5815 by Monday 3 December 2007. The closing date is 5.00pm, Friday 25 January 2008. Further information can be found at: http://www.imb.com.au/AboutIMB/Foundation.asp

ARC Linkage Projects
At the time of press fifteen applications for 2008 Round 2 Linkage Projects are being submitted. This includes applications from the following faculties: Creative Arts (2); Commerce (2); Engineering (4); H&BSc (3); Informatics (2) and Science (2).
NEW NATIONAL CODE OF CONDUCT FOR RESEARCH

The Australian Code for the Responsible Conduct of Research was released recently. The Code provides information/advice on best practice in research, and guidance for handling breaches of the Code. It is intended to inform researchers, institutions and the public about their responsibilities and the standards expected in Australian research. The Code was developed jointly by the National Health and Medical Research Council, the Australian Research Council and Universities Australia, and replaces the Joint NHMRC/AVCC Statement and Guidelines on Research Practice (1997). Compliance with the Code is mandatory for access to NHMRC or ARC funding.


The UOW Code of Practice - Research has been significantly revised. Procedures dealing with Research Misconduct have been removed and written into a separate policy - The Research Misconduct Policy. All staff are advised to familiarise themselves with these policies and contact the Director of the RSC if they require an clarifications.

The revised UOW Code of Practice, Research can be found at: http://www.uow.edu.au/handbook/codesofprac/codeofpractice_research.pdf


Research Ethics Committee Update

Members of ethics committees help provide a service essential to the conduct of research at UOW, and must be acknowledged for the dedication with which they undertake a task that is time consuming and often unpopular.

Animal Ethics Committee

After overseeing three years of systematic revision and upgrading of the Animal Ethics Committee (AEC) processes, Professor Brian Ferry is stepping down from the position of Animal Ethics Committee Chair at the end of November. Prof. Ferry has been a highly effective Chairperson, and leaves the AEC with a strong framework to support and monitor the conduct of ethical animal research at UOW. The past few months have also seen Prof Bill Buttemer and A/Prof. Peter McLennan retire from the AEC after over 10 years of consistent and valued contribution to the Committee. A/Prof. Marie Ranson will be leaving the Committee at the end of December. The new Chair will be Dr Karin Garrety, with A/Prof. Ron West, Prof Paul Else and Dr Kylie Mansfield also joining the Committee.

Human Research Ethics Committee

The Human Research Ethics Committee (HREC) for Health and Medical research has been expanding to facilitate its operation as a Lead HREC in the NSW Dept of Health system for the review of multi-site research. Dr Wilfred Yeo, Professor of Medicine at the UoW Graduate School of Medicine, Dr Nancy Humpel from the Eastern Australia Dementia Training and Study Centre, and Mr Malcolm Masso from the Centre for Health Service Development have joined the Committee recently. Dr Jennifer Duncombe, an epidemiologist with the SESIAHS Population Health, Planning and Performance unit, will be joining the HREC in the new year.

Research Strengths Series: Showcasing our Research Excellence

This new lecture series commencing in 2008, will provide an opportunity to showcase the research conducted within each of UOW’s Research Strengths, and introduce the researchers involved, to the general campus and community.

Session One - 2008

Wednesday 12th March
Professor Leon Kane Maguire
Intelligent Polymer Research Institute

Wednesday 16th April
Professor John Norrish
Engineering Manufacturing

Wednesday 21st May
Professor Anatoly Rozenfeld
Centre for Medical Radiation Physics

Session Two - 2008

Wednesday 6th August
Professor Philip Ogunbona
Telecommunications and Information Technology Research Institute

Wednesday 10th September
Professor Shixue Dou
Institute for Superconducting and Electronic Materials

Wednesday 15th October
Associate/Professor Paul Keller
Centre for Medicinal Chemistry and Pharmacology

All Presentations will be held at lunchtime (12.30-1.30pm) Communications Building 20 , Lecture Theatre 2


Uni in the Brewery

Thank you to all who participated in and attended the Uni in the Brewery this year.

Our aim with this event is to encourage the general public to come along and hear about the type of research conducted at the university. It can get a little noisy but the audiences enjoy the casual pub environment and being able to interact and speak with the presenters. If you have any suggestions for 2008 speakers please e-mail to vwallace@uow.edu.au
RQF UPDATE
The University’s preparations for the RQF are now well under way. Each of the identified research groups will submit an evidence portfolio to highlight the quality and wider community impact of their research during the assessment period 2001-06. Each portfolio will comprise:
- Context Statement for each group, providing the capstone for the portfolio
- Four best works of each group member, with a justification for the inclusion of each
- List of research outputs of each group member – the “body of work”
- Impact Statement for each group

The task of inserting the “body of work” into the Research Information System (RIS) is nearly complete. Most researchers have also nominated their four best works for the period in RIS and written justifications for their selection. The Library has made substantial progress in locating these best works for inclusion in a secure section of Research Online.

Excellent progress has also been made with the development of the Context Statements, with most first drafts completed or well-developed. The development of Impact Statements has also begun. The RQF Team would like to thank the University community for supporting this process. We are on track to substantially complete our draft portfolios by the end of the year. We will then evaluate, refine and finalise the portfolios early next year in time for submission to DEST in April. If the DEST process is delayed because of changes in Federal government policy, we will continue with the evaluation process. What we learn from the exercise will help us to strengthen future research assessment submissions and improve our strategies for supporting research growth at UOW.

For further information, please see the UOW Intranet site at: https://intranet.uow.edu.au/raid/rqf/index.html

RESEARCH STUDENT CENTRE
http://www.uow.edu.au/research/rsc/

> The HDR Student Orientation Day 2008 date is Tuesday 26 February. For further information please contact the Research Student Centre on 4221 5452.

> A limited number of Parking spaces are apportioned for HDR students at the beginning of each year. Applicants must be on campus at least 4 days per week and require supervisor signature on the ballot form. If there are more applications than there are places a ballot will be held. Information regarding the Parking Ballots is at: http://www.uow.edu.au/content/groups/public/@web/@raid/documents/doc/uow09487.pdf

> The Annual Progress Reports (APR) is available to students through SOLS. Please note - HDR students will not be enrolled unless their APR has been completed first. Due dates are as follows:

<table>
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<tr>
<th>Date</th>
<th>Action</th>
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<tbody>
<tr>
<td>30 Nov 2007</td>
<td>Principal Supervisor should complete Section 2 and publish to Student.</td>
</tr>
<tr>
<td>7 Dec 2007</td>
<td>HDR candidate should complete Section 3 and submit the Progress Report to the Head of Postgraduate Studies.</td>
</tr>
<tr>
<td>21 Dec 2008</td>
<td>The Head of Postgraduate Studies should forward the APR to the Dean of the Faculty.</td>
</tr>
<tr>
<td>25 Jan 2008</td>
<td>The Dean of Faculty should return the APR to the Research Student Centre.</td>
</tr>
<tr>
<td>1 – 29 2008</td>
<td>RSC process HDR re-enrolments</td>
</tr>
</tbody>
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For further information on APRs please see: http://www.uow.edu.au/research/rsc/hdrhb/UOW008952.html

Honours Scholarships
Up to 40 scholarships of $2,000 each will be made available for eligible students enrolling full-time in 2008 in an Honours degree at the University of Wollongong.

Each scholarship is for one year of study (on campus study only), and is paid in two instalments to the scholarship holder.

All students undertaking an Honours degree in 2007 who demonstrate potential to undertake postgraduate research in the future are encouraged to apply. Student projects in selected areas of research strengths or emerging research strengths will be highly regarded.

Applicants will be asked to state the area of research in which they wish to study, outline components of their relevant undergraduate studies and other relevant experience which would enable them to undertake an honours project successfully in the specified research area, nominate a potential honours supervisor, and nominate 2 internal referees.

Scholarships will be awarded on the basis of application, research potential, undergraduate grades and referee reports. Applications will close on Friday 30 November 2007. Application forms are available from the Research Student Centre, Ground Floor, Building 20 or online at: http://www.uow.edu.au/research/rsc/student/scholarships/

Commercialisation Training Scholarships (CTS)
CTS aim to provide high quality research commercialisation training to HDR students as a means of equipping them with skills necessary to bring ideas, inventions and innovations to the market. Successful CTS scholarship HDR students must enrol in the Graduate Certificate in Research Commercialisation which is offered through the Faculty of Commerce. The Graduate Certificate should take no more than 6 months full time (or part time equivalent) to complete. Successful students will be permitted to enrol concurrently in the Graduate Certificate and their HDR degree (subject to satisfactory progress).

Successful applicants will receive a stipend of $10, 000 tax free for full time or pro rata for part time paid as a fortnightly stipend and can be granted in addition to any award the student may already hold. Each student will also attend a UniQuest Research Commercialisation workshop held in Queensland each year. CTS scholarship holders are exempt from tuition fees normally charged to undertake the Graduate Certificate in Research Commercialisation. More at: http://www.uow.edu.au/research/rsc/student/scholarships/index.html
Commercial Research Unit (CRU)
The Commercial Research Unit has been very active since its creation in October. It now has a full contingent of staff (contacts and responsibilities provided below). In addition, the revised Commercial Research Policy has now been approved by Council and is available from the UOW Policy Directory. CRU have been providing training to Faculties on the new Approval Form and Costing Pro Forma but are happy to provide individual training if required.

Feedback from academics on the new process has been very positive but if you have any suggestions for improvement please feel free to contact us. CRU are also happy to report that we have still been getting our fast-track contracts out within in our promised 3 working days from receipt of the Approval Form in all cases. We will shortly make public a process has been very positive but if you have any suggestions for improvement please feel free to contact us. CRU are also happy to report that we have still been getting our fast-track contracts out within our promised 3 working days from receipt of the Approval Form in all cases. We will shortly make public a process has been very positive but if you have any suggestions for improvement please feel free to contact us. CRU are also happy to report that we have still been getting our fast-track contracts out within in our promised 3 working days from receipt of the Approval Form in all cases. We will shortly make public a process has been very positive but if you have any suggestions for improvement please feel free to contact us. CRU are also happy to report that we have still been getting our fast-track contracts out within in our promised 3 working days from receipt of the Approval Form in all cases. We will shortly make public a process has been very positive but if you have any suggestions for improvement please feel free to contact us. CRU are also happy to report that we have still been getting our fast-track contracts out within in our promised 3 working days from receipt of the Approval Form in all cases. We will shortly make public a process has been very positive but if you have any suggestions for improvement please feel free to contact us. CRU are also happy to report that we have still been getting our fast-track contracts out within in our promised 3 working days from receipt of the Approval Form in all cases. We will shortly make public a process has been very positive but if you have any suggestions for improvement please feel free to contact us. CRU are also happy to report that we have still been getting our fast-track contracts out within in our promised 3 working days from receipt of the Approval Form in all cases. We will shortly make public a process has been very positive but if you have any suggestions for improvement please feel free to contact us. CRU are also happy to report that we have still been getting our fast-track contracts out within in our promised 3 working days from receipt of the Approval Form in all cases. We will shortly make public a. We are very conscious that ing standards that we will be committed Customer Service Charter with other tim-

Mr Scott Morgan
Ph: (02) 4221 4983
Email: scottmor@uow.edu.au

Commercial Research Officer
Costing advice and assistance with preparing Approval Forms for UOW researchers. Administration of fast-track process for <$50K projects.

Mrs Gina Portscher
Ph: (02) 4221 4486
Email:gina@uow.edu.au

Commercial Research Assistant

INTRODUCING SCOTT MORGAN
Mr Scott Morgan, commenced work with CRU on the 5th November as the Commercial Research Officer. Scott is a UOW graduate, graduating in 1994. He has worked in Japan and jumped into the IT industry upon his return to Australia, firstly in Distribution and then Sales @ Sun Microsystems. At Sun, he focused on the Education vertical and worked on a number of large projects and completed MBA studies. After working at Sun he moved to Wollongong and worked in the Job Network, focusing on return to work mothers and indigenous clients in their efforts to find long term, sustainable work. He has 2 monsters (free to a good home but no one is taking up on the offer) and a very patient wife. When not making excuses about why he is not getting out surfing, he can be found judging beer or enjoying living on the South Coast….except of course when he is working hard at CRU! Scott will prepare all fast-track contracts and is available to support staff in costing projects and preparing the new Commercial Research approval documentation. He is also going through UOW's outstanding invoices, which total over $2million. So don’t be surprised if he chases you up to sign an Invoice Request Form - we want to make sure these payments are invoiced.

Big Ideas is a network run by the Research and Innovation Division (RAID) for UOW's postgraduate and honours students. The mission of Big Ideas is to provide a network for UOW Postgraduate and Honours Students to:

- share ideas
- be exposed to other peoples experiences in commercialisation and innovation
- understand UOW's commercialisation processes
- receive practical training on how to develop, deliver and critique a commercial pitch
- hear from and engage with experts from various areas of research commercialization

The final event for 2007 for Big Ideas is:

Wed. 19th December (4.30 – 6.00pm) • Location: Bld 20.5
Topic: ‘Providing a commercial pitch (Training Workshop)’
Groups will be mentored to prepare, deliver and critique a commercial pitch.

UOW's Largest Ever Commercial Research Contract Awarded
The Faculty of Education is emerging as a star commercial research performer, having just secured UOW’s largest ever commercial research contract. The project, headed up by Prof Bev Derewianka, is the development, coordination and delivery of summer school training to teachers on literacy and numeracy. It is a very prestigious project and also involves the Edith Cowan University, the University of New England and the Australian Literacy Educators’ Association. Congratulations to the team in Education. The project is worth more than $2 million and has been costed at commercial rates.

Commercial Research Database
The commercial research database is now live and accessible at http://edserver1.uow.edu.au/cgi-bin/WebObjects/PartnersInResearch.woa . Please contact us if you would like to add your details.
Finding Theses Podcast – a Library First.

Listen to the Library’s first podcast, A discussion with Professor Brian Martin – Finding theses: a first step in your literature review.

Discover why a thesis search is important; how it can help with your literature review and what to do if someone else has researched your topic. Professor Martin has studied in the sciences, teaches in the Faculty of Arts at UOW and brings a universal perspective to the literature review. The discussion will be of particular interest if you are new to research and have not yet thought of searching the thesis literature. As you will discover, theses are a unique source of valuable information that may not be published in any other format. You can listen to the podcast on your computer or download it to your iPod or MP3 player. Library homepage > Researchers > Theses > Discussion with Professor Brian Martin

New Resources

A number of new research resources can now be accessed online.

- **Standard Methods for the Examination of Water and Wastewater** – includes hundreds of analytical techniques for the determination of water quality
- **Encyclopedia of Gerontology** – new coverage of topics in this expanding discipline
- **Encyclopedia of Quaternary Science** – coverage of multidisciplinary research impacting current issues such as groundwater resources, sea level change, soil erosion.

Access these resources from the Library’s Databases page or via the Catalogue.

**PUBLICATIONS**

Dr Richard Menary (Faculty of Arts, School of English Literatures, Philosophy and Languages) has published a book entitled: **Cognitive Integration: Mind and Cognition Unbounded** (Basingstoke: Palgrave Macmillan).

*Cognitive Integration* argues that thinking is bounded by neither the brain nor the skin of an organism. Cognitive systems function through integration of neural and bodily functions with the functions of representational vehicles. The integrationist position offers a fresh contribution to the emerging embodied and embedded approach to the study of mind.

Richard Menary lectures at the UOW, having formerly been Senior Lecturer at the Department of Philosophy, University of Hertfordshire, UK. He has published in journals such as *Philosophical Psychology* and *Language Sciences*, has edited two books, *Radical Enactivism* (2006) and *The Extended Mind* (2008), and is currently writing a book on the philosophy of cognition.

‘In this clear and rich treatment, Richard Menary explores the complex interplay between material, normative and cultural considerations in the emergence and construction of human cognitive systems. This is an important contribution to debates concerning the bounds of cognition and the “extended mind”.’

- Andy Clark, Professor of Logic and Metaphysics, University of Edinburgh

Publications from Dr Julia Martinez – (Arts, History & Politics and CAPTRANS)

‘Ethnic policy and practice in Darwin’. In Regina Ganter with contributions from Julia Martinez and Gary Lee, *Mixed Relations: Asian-Aboriginal Contact in North Australia* (pp. 122-139). Crawley, Western Australia: University of Western Australia Press. (2006). *Mixed Relations* was awarded the 2007 Australian Historical Association's Ernest Scott Prize for the most distinguished contribution to the History of Australia or New Zealand and the 2007 NSW Premiers' History Award for a Regional or Community history. According to one judge, *Mixed Relations* rewrites 'the national story through individual stories that cross multiple racial, ethnic and cultural boundaries' and presents an 'intellectual challenge to settler historiographies which have privileged simplistic oppositions, proposing a rich new narrative of northern Australia as a place of mixed identities.'

The first UoW-SJTU bilateral symposium on The Application of Nano and Energy Materials was held at Shanghai Jiao Tong University (China) on 1st November 2007. The purpose of this symposium is to enhance existing collaborative research and develop further projects between the two universities. The symposium's main focus is on the Synthesis of NanoMaterials and their application in bioelectronic, bionic, and electrochemical devices. Prof. Lee Astheimer, ProVice-Chancellor (Research) and other leading professors from the science and engineering faculties presented their innovative research.

Dr Shady Cosgrove (Creative Arts) was shortlisted (top 5) for The Australian/Vogel Literary Award this year. This coveted annual prize is given to an author under 35 years of age for an original unpublished manuscript of fiction or Australian history or biography. The prize money of $20,000 is currently the richest and most prestigious writing award for an unpublished manuscript in Australia, and was first initiated in 1979 in a collaboration between The Australian newspaper and publisher Allen & Unwin. This year’s five shortlisted writers from NSW, VIC and TAS are aged from 28 to 34 and were chosen from nearly 150 applicants. Dr Shady Cosgrove of the School of Journalism and Creative Writing, has been nominated for her work ‘She Played Elvis’. This piece of ‘creative non-fiction’ tracks her journey across the United States with her Australian partner to visit ‘Elvis’. This piece of ‘creative non-fiction’ tracks her journey across the United States with her Australian partner to visit Gracelands. The 75,000 word memoir about pilgrimage, family and nationhood shares her experience of re-acquaintance with America.

The University of Wollongong has this year been included into the Top 500 academic rankings of world universities by the respected Institute of Higher Education at Shanghai Jiao Tong University. The rankings are strongly weighted in favour of research. The Institute scans universities that have Nobel Laureates, field medals, highly cited researchers, or papers published in the prestigious Nature or Science magazines. In addition, the Institute scans major universities of every country with a significant number of articles indexed in major citation indices. In total, more than two thousand universities were scanned for eligibility. Professor Gerard Sutton (Vice-Chancellor) said the ranking was a testament to UOW’s successful research base and growing reputation.

Dr Allison Shorten (Health & Behavioural Science) was commissioned by the British Medical Journal to provide an editorial regarding the issue of rising caesarean section rates. The BMJ is one of the leading medical journals worldwide and the opportunity for a midwife to participate in this high profile journal is unusual. As a result, there have been many news reports (medical and mainstream) from all corners of the globe that have made mention of the editorial. Full article at: http://www.bmj.com/cgi/content/full/bmj.39372.587650.80?eaf

Dr Oyvind Kalnes, from Lillehammer University College in Norway, are visiting the Faculty of Commerce from mid-Oct. till mid-Dec. They were invited by Dr. Joseph Meloche (Commerce) and are both engaged in media communication research projects. Bakoy investigates how migrant women experience television in the satellite age. She is also developing a project about diaspora filmmaking. Kalnes studies how political parties use the internet for communication and marketing. He is also sharing his expertise through guest lectures on this subject and on intercultural communication for students studying Business Communications. Lillehammer University College and the University of Wollongong already have a student exchange program. The visitors aim to be part of the development of an exchange program of lecturers and researchers, as well. It is envisioned that Dr Meloche will attend Lillehammer University, in the spring semester of 2008.

News, Awards and Achievements
In early October 2007, A/Prof Natalie Stoianoff (Law) presented a joint paper with A/Prof Mary Kaidonis (Commerce) at the Eighth Annual Global Conference on Environmental Taxation, in Munich, Germany. The paper, “Environmental Fiscal Instruments and the Development of the Environmental Management Services Industry in Australia”, is significant given current global environmental concerns and emphasises the utility of the tax concessions granted since 1991 for environmentally responsible behaviour. In late October, A/Prof Stoianoff visited a series of law firms in Shenzhen and Hong Kong dealing with the enforcement of intellectual property rights in China and met with intellectual property Professors at the Law School of Shenzhen University. In addition, a workshop was held with representatives from the Shenzhen Intellectual Property Office, Shenzhen Copyright Bureau, Customs and a Judge of the Intellectual Property Division of the Shenzhen Intermediate Court. This visit, partly organised with the assistance of PhD Candidate, Ms Ying Lin (Law), has contributed vital information for A/Prof Stoianoff’s research into the enforcement of intellectual property rights in China and was made possible with funding from her joint ARC Discovery Grant with Prof Christoph Antons (Law) and Prof Jianfu Chen (La Trobe).

School of Health Sciences HDR PhD student, Dolly Bondarianzadeh, with A/Prof Heather Yeatman & Dr Deanne Condon-Paoloni, recently published an article in the October issue of the Australian New Zealand Journal of Public Health on listeria and education about food safety practices among pregnant women. The article has had extensive coverage in the media, including ABC radio news on Friday 2 November. The article also has resulted in a broadly distributed media release from Food Standards Australia & New Zealand. Details of article: Bondarianzadeh D, Yeatman H & Condon-Paoloni D, 2007, Listeria education in pregnancy: lost opportunity for health professionals. Australian and New Zealand Journal of Public Health, vol. 31 no. 5.

In August 2007, Dr Jun Shen (School of Information Systems and Technology) was endorsed as a Senior Member of the Association for Computing Machinery (ACM) which was the first professional organisation for computing discipline and is an educational and scientific society uniting the world’s computing educators, researchers and professionals. The Senior Member Grade recognises those ACM members with at least 10 years of professional experience and 5 years of continuous Professional Membership who have demonstrated a high level of professional performance. Jun Shen became a Senior Member of IEEE in 2006 and is now vice-chair of IEEE’s Education Chapter (NSW section). He is active in teaching and research on service oriented computing, a next generation computing paradigm showing importance in multiple scientific and engineering disciplines. (http://www.acm.org/)

Prof. Andrew Schultz (Dean of the Faculty of Creative Arts) marks twenty-one years of association with UOW with the release of two new CDs Gothic Toccata and Coil. They feature solo works for grand organ and vibraphone. The works were composed about ten years apart, both when he took up new appointments. Études Espace (a grand organ track on the Gothic Toccata CD) was the first work Schultz completed on taking up a lecturing post at the University of Wollongong in 1986. The work has three movements: ‘Rocks’, ‘Piping’ and ‘Chorale’. “The titles of the three movements relate to the overall title of the work: literally, studies in space”, says Professor Schultz. Calvin Bowman, the distinguished Australian organist, recorded Études Espace on the famous Melbourne Town Hall Grand Organ for the CD (Melba Pantheon PD70001). Dr Bowman is Ormond College Organist and Associate Artistic Director of Australia Pro Arte.

Winter Ground (a track on the Coil CD) for solo vibraphone was commissioned by Miguel Bernat, the Belgium-based Portuguese percussionist. Schultz says, “He gave the first performance of the work in Rotterdam in Holland on a suitably icy night in January 2000. It is, as the name suggests, based around a repeated harmonic passage or ground. The work demands high levels of fluency and freedom of independent stick technique of the performer.” Coil which consists of Australian music for solo percussion, released by Tall Poppies (TP193) and recorded by the brilliant young Australian percussionist Claire Edwardes. Edwardes performs and records widely in Australia and overseas and is currently Assistant Artistic Director of Ensemble Offspring.

Prof Sharon Robinson (Biological Sciences) has recently secured an Antarctic Science Grant in collaboration with Dr. Cath Lovelock University of Queensland and Drs Jane Wasley and Dana Bergstrom from the Australian Antarctic Division. The grant will fund research directed at the continuation of an Antarctic State of the Environment Indicator to investigate changes in Antarctic vegetation and constitutes a vital tool for conservation of Antarctic plant biodiversity. The researchers will determine how environmental change effects the terrestrial vegetation of the Windmill Islands by measuring how biodiversity has changed along a set of permanent vegetation transects established in 2002/3. The vegetation dynamics of the Windmill Islands will be assessed at two scales, the fine scale will examine the relative abundance of the three common mosses, the broadscale will examine how these mosses compete with the lichens which dominate the more exposed areas. The examinations will allow early-detection of the impacts of environmental change. This project builds on research performed in the Windmill Islands over the past 14 years by Robinson, Lovelock and Wasley.
Professor Shirley Leitch (Dean of Commerce) and Professor Judy Motion (Research Director of the School of Management and Marketing) were keynote speakers at a major symposium in Wellington, New Zealand recently on the development of new science industries. They spoke to an audience comprising senior managers from industry and the public sector as well as scientists and academics at a one day symposium organised by the Royal Society of New Zealand. The symposium was opened by Hon. Steve Maharey, New Zealand’s Minister for Research, Science and Technology, who spoke of the importance of science-society engagement to guide the development of sustainable science-based industries.

Professor Motion is the leader of a $2.5m research project on developing socio-culturally sustainable biotechnology. In her keynote speech, Professor Motion argued against the information deficit model of science communication which has viewed public opposition to controversial areas of science as a product of lack of information. Professor Motion’s research has emphasised the importance of understanding public values and beliefs.

Professor Leitch, who is deputy leader of the sustainable biotechnology project, spoke about how her research has found that existing methods of public engagement are mostly modelled on the old paradigm of town hall meetings and ignore new technologies. She argued that in order to be relevant, public engagement must take place in the arenas within which people are choosing to exchange ideas which are increasingly internet-based. She also argued for ‘unorganised public engagement’ which would see science policy organisations and science companies tapping into existing streams of engagement such as YouTube.

Professor Linda Tapsell from the Smart Foods Centre was invited to present at the International Life Sciences Institute South East Asia (ILSI SEA) conference “East-West Perspectives of Functional Food: Science, Innovation and Claims” from November 5-7 in Kuala Lumpur, Malaysia. The subject of Prof Tapsell’s presentation was “Substantiating High level and General Claims – Experiences from Australia”. The conference was co-sponsored by CSIRO, one of the four NCEFF partners. More at: http://www.functionalfoods2007asia.com/overview.php

Professor Tapsell was also invited to present at the GoGrains 4+ Serves of Grain Foods a Day campaign launch in Sydney last month. “The body of scientific evidence shows that consuming grain and wholegrain foods delivers key nutrients, form part of a diet for healthy weight, and may be protective against a range of diseases,” Professor Tapsell said at the launch. Prof. Tapsell and the Smart Foods Centre had recently been commissioned to conduct a review of the science surrounding the potential health benefits of grain-based food consumption.

A/Prof. Zhengyi Jiang delivered an invited plenary talk “Contact mechanics in cold rolling of thin strip” at the 3rd International Symposium on Advanced Technology for Plasticity, held in Nanchang, China from 15-21 October 2007. Over 400 delegates attended the conference.

This year’s Nobel Prize in Physics, awarded to Frenchman Albert Fert and German Peter Grünberg, for their discovery of Giant Magnetoresistance (GMR) has led to newly emerging spintronics research and a boost to the research conducted at the Institute for Superconducting and Electronic Materials (ISEM) at UOW. According to UOW’s Associate Professor Xiaolin Wang, the Coordinator of the Spintronic and Electronic Materials Program in ISEM, “An electron has two important properties. One is its negative electric charge; and the other is its spin due to self spinning. The conventional electronics and its devices utilize only the electron’s charge for information processing, the spin is completely ignored. When both spin and charge are utilized simultaneously, astonishing and unusual physical phenomena can result.” The discovery of giant magnetoresistance (GMR) opened the door to a wealth of new scientific and technological possibilities: fast and slim laptops, multi-functional and slim music players such as iPods, MP3 players, as well as powerful internet search engines, all of which require hard disks where information is densely packed. This technology may be regarded as the first step in developing a completely new type of electronics: spintronics – which is also a driving force behind the rapid development of nanotechnology. In 1998, Assoc. Prof. Wang and Prof. Dou of ISEM initiated, for the first time in Australia, research in new types of magnetic materials, the so-called colossal magnetoresistance materials (CMR) with a much greater magnetoresistance observed in metallic multilayers. Some of the team’s work published in 1998 has led to significant impacts in the magnetic communities, resulting in national (ANSTO) and international (NIMS in Japan) collaborations, while also generating quite a number of Australian Research Council Discovery and Linkage grants. A symposium to be held in Sydney in 2008, IUMRS-ICEM 2008 will be an opportunity to showcase ISEM’s research activities in this emerging field and further enhance collaborations.

The Nanotechnology Degree Program (Schools of Chemistry, Mechanical, Materials and Mechatronic Engineering) recently awarded four scholarships ($1,000 each) for attendance of the International Conference on Nanoscience and Nanotechnology (ICONN 2008) held 25-29 February 2008 in Melbourne. The aim of ICONN 2008 is to bring together the Australian and International community working in the field of nanoscale science and technology to discuss new and exciting advances in the field. See www.ausnano.net/iconn2008 for more information. The four winners of the scholarships are Tom Higgins, Dennis Anthiohos, Shane Ellis and David Marshall. Three scholarships were provided by the Intelligent Polymer Research Institute (IPRI), while one scholarship was provided by the Nanotechnology Degree Program.

Amanda Cork (PhD student in Biological Sciences) recently won the best poster prize at the BacPath9 (Molecular Biology of Bacterial Pathogens) conference in Lorne.

Nicholas Deutscher (PhD student in Chemistry) won the prize for best student oral presentation at ACOVS (Australian Conference of Vibrational Spectroscopy) held at UoW recently.
Research News from the Centre for Medical Radiation Physics.

**Microbeam Radiation Therapy experiments**

CMRP has finalised the development of a prototype of a unique radiation detection instrument. It is based on a customized silicon strip detector designed at CMRP and produced at a microelectronics foundry SPO BIT. Readout electronics were tested in collaboration with Italian INFN group in Turin. CMRP Masters student Sam Khana and PhD student Andrew Baloglow took an active part in the development of the prototype. Characterisation of the innovative radiation detector was done in collaboration with ANSTO’s detector group, headed by Dr Mark Reinhard, a former PhD graduate of the School of Physics, UOW. Successful testing of new the instrument was carried out at the European Synchrotron Radiation Facility (ESRF) in Grenoble at the end of September 2007 by Dr Michael Lerch and PhD student Heidi Nettelbeck.

**Proton Therapy and space radiation instrumentation development at CMRP.**

A prototype to predict radiation effects at a cellular level has been finalised as a part of an ARC Discovery Project Grant (Chief Investigator - Prof Anatoly Rozenfeld). The prototype was designed at CMRP, fabricated at UNSW Nanotechnology microelectronics fabrication facility (Centre for Quantum Computing) and characterised at ANSTO. The successful 3-way collaboration is an important factor in the next generation of radiation detector instrumentation for space, avionics and radiation medicine.

Recently the IEEE Nuclear Science Symposium and Medical Imaging conference (IEEE NSS MIC) was held in Honolulu, USA which is a premier gathering of medical radiation instrumentation scientists and industry with more then 2000 participants (http://www.nss-mic.org/2007). Prof Anatoly Rozenfeld (Engineering Physics/CMRP), founder and Chair of Asian-Pacific Program and workshop on Hadron Therapy Innovation Technologies, Drs Michael Lerch and Marco Petasecca (CMRP) and Dr M. Reinhard (ANSTO/CMRP) presented talks.

Prof. Peter Metcalfe (Engineering Physics/CMRP) has attended the annual AAPM conference in the USA where he launched the second edition of his popular text book on *Radiation Therapy Physics of Electron and Photon Beams* which he wrote in co-authorship with Prof Tomas Kron (Peter McCollum Cancer Institute, Melbourne) and Dr Peter Hoban (Tomotherapy Ltd, USA. Currently it is one of the most popular text books in the USA in medical physics educational programs.

Honours Medical Radiation Physics student Ms Channele Abdiprano was offered a competitive and prestigious Leukaemia Foundation PhD Scholarship starting in 2008 to continue to work in the field of magneto-radiotherapy radiobiology for leukaemia cancer treatment with Westmead Institute for Cancer Research (WICR).

PhD student Nick Hardcastle was invited to Wisconsin University, Department of Human Oncology and Medical Physics to collaborate on an 8 month project involving the use of real time dosimetry in prostate cancer treatment with Image Guided Radiotherapy (IGRT).

**ACES Workshop on Ethics and Regulation of Risk in Nanotechnology.**

The second workshop by ARC Centre of Excellence for Electromaterials Science (ACES) on Ethical issues surrounding the use of nanotechnology was held in November 2007 in Wollongong. This was organised by Profs. Sue Dodds (Arts) and William Price (Science). It is widely recognised that development of nanotechnologies and products containing nanomaterials has the potential to generate Occupational Health and Safety, Environmental and Health risks. In addition, there has been pressure on regulatory authorities to assess and regulate the development of nano-technologies and products. Countries around the world are taking a variety of approaches to this. This workshop was designed to start to come to grips with some of the issues surrounding risk and regulation and to reflect on the implications of this range of issues for the development of nanotechnology in Australia. Over 40 people attended the one day workshop with many participants being members of the ACES. Other attendees came from a variety of State and Federal agencies such as Workcover and NICNAS (The Australian Government regulator of industrial chemicals) as well as researchers from NSW and Victorian Universities. The three main speakers at the Workshop were:

- Prof. Brian Priestly, Head, Australian Centre for Human Health Risk Assessment (ACHHRA) at Monash who gave an excellent overview of the current understanding of the risks posed by a range of nanomaterials including fullerenes and carbon nanotubes, to researchers, manufacturers and consumers.
- Dr. Karinne Ludlow, from the Monash Centre for Regulatory Studies, who is an expert in regulation of nanotechnology. Karinne linked the growing state of knowledge of the potential hazards of the materials to the current regulatory framework in Australia and compared it to other nations such as USA and Europe.
- Prof. Sue Dodds, from University of Wollongong, discussed issues of ethics as related to the health and environmental risks associated with nanomaterials. In particular, Sue focussed on the inadequacy of current ethical approaches to provide ethical guidance when dealing with situations of risk and uncertainty. These sessions were then followed by a panel led forum which again had excellent participation. The workshop was deemed to be highly successful and is likely to lead to another one being organised next year.

*The three speakers (from left to right) Dr. Karinne Ludlow, Prof. Susan Dodds and Prof Brian Priestly fielding questions during the panel discussion.*
The School of Computer Science and Software Engineering and the School of Information Systems and Technology held a **Trade Show and Research Showcase** on 25 October in the UniCentre Hall. Students enrolled in CSCI321 Project presented their software development work (as teams). Fourth year Honours students enrolled in the Bachelor of Information and Communication Technology degree and Bachelor of Computer Science degree presented a poster display highlighting their research towards completion of their Honours reports. A special keynote address was given by Informatics PhD graduate Gareth Brisbane who began his university career part-time at UOW as a 12-year-old. (http://www.cs.uow.edu.au/tradeshow/)

### CONFERENCES AND WORKSHOPS

**‘Occupying ‘the Other’: Australia and military occupations from Japan to Iraq’**, a symposium sponsored by CAPTRANS, UoW Faculty of Arts, the Japan Foundation and Monash University, will be held at University of Wollongong on 29-30th November 2007. This symposium aims to bring together journalists, public commentators and scholars from a variety of disciplines who are investigating Australian involvement in foreign military occupations. For further information contact: Dr Christine de Matos, Email: cdm@uow.edu.au

**Workshop: Ink Jet Printing Functional Materials**: (6 - 7 December 2007)

The advent of Desk top ink jet printing revolutionized the world of personalized printing. The advent of laboratory based ink jet printers is revolutionizing the world of advanced materials and fabricated structures containing them. The ability to design and create novel structures and devices with micron revolution on a range of substrates is having a major impact on fields as diverse as: chemical/biosensors, electrochromic displays, plastic electronics, wearable sensor technologies, RFID tags, and even biomaterials. Recent advances in nanotechnology have enabled many highly functional materials to be more processable including improved printable. This workshop (hosted by IPRI and ACES) will examine the fundamental physical and chemical properties of solutions/dispersions that are required to enable high resolution ink jet printing.

In addition, the most recent advances in fabricating practical devices by ink jet printing will be presented by each of our invited speakers.

Speakers include:
Prof. Paul Calvert (UMass, Dartmouth, USA), Prof. Gyoujin Cho (Sunchon National University, Korea), Dr Aoife Morrin (Dublin City University, Ireland)
Dr Arun Vijayan (CSIRO), Dr Bjorn Winther-Jensen (ACES)
Dr Marc in het Panhuis (UOW).

Further Information: Dr Marc in het Panhuis (panhuis@uow.edu.au)

**‘Intellectual Property Enforcement and Awareness Raising in the Asia Pacific Region’**. The venue is the Moot Court (Room 67.202), Faculty of Law, UOW. This workshop will examine the changes to IP legislation, enforcement practices and institutions in a number of East and Southeast Asian countries. It will contrast recent Asian experiences with those in Australia, Europe and the US and ask, how the various countries have implemented the requirements of Part III of the WTO- TRIPS Agreement to create “efficient” enforcement systems. The Workshop will bring together 16 speakers from ten countries. For further information and registration please contact Gabriel Garcia (garcia@uow.edu.au ext 4272 or Marjam Ita (marjam@uow.edu.au ext. 3672)

**The Mathematics and Statistics in Industry Study Group Conference (MISG) 2008** will be held at the UOW, 28th Jan.-1st February. (Director: A/Prof. Tim Marchant).

The MISG conference is an industry clinic where industry partners have their problems solved (for a fee) by the delegates (which normally number around 100-150). A week long investigation of the industry problem occurs during the conference and a final report is written by the problem investigators. For further information please contact A/Prof. Tim Marchant. He is also available to give a detailed presentation on the benefits of MISG participation, to your organisation. Ph: 61-2-42213861 Fax: 61-2-42214845 email: tim_marchant@uow.edu.au MISG2008 web-site: www.misg.math.uow.edu.au

From Left: Dr Maureen Edwards (MISG Assoc Director), Prof Robert McKibbin (Massey University), Assoc Prof Tim Marchant (MISG Director) and Mr Joe Maisano (Industry Representative - Trading Technology Australia).
National Centre of Excellence in Functional Foods (NCEFF) will be holding its annual Foods For Life conference in Sydney on 10 & 11 December. The 2007 conference will continue to follow the science programs run by the four NCEFF partners (UOW Smart Foods Centre, CSIRO, Food Science Australia and Dept. Primary Industries Victoria) under the Healthy Weight and Healthy Ageing themes. Attendees will include food and ingredients companies, industry associations, government and R&D organisations. The objective of the conference is to engage industry with the results of the science, and to translate the benefits of those results into identifiable, commercial opportunities. University staff and students are welcome to attend. Please contact Louise Abrams on 02 4221 5121 or labrams@uow.edu.au for a conference brochure.

Narrative Inquiry: Breathing Life into Talk, Text and the Visual, a conference sponsored by UOW’s Faculty of Education, CYIRC (Children and Youth Interdisciplinary Research Centre) and LNL (Learning and the Learner), will be held at the UOW on 22 and 23 February 2008. Increased interest in narrative theory and practice is evident in virtually every area of the human sciences and related professions. Typically, narrative scholars focus on spoken and written accounts in order to understand and represent the experiences of individuals, communities, organisations and nations. More recently, a turn to the visual has meant that researchers are also working with visual imagery and technologies towards the same ends. This conference will provide those with an interest in narrative to gain an overview of the approach and its significance as a research method. Professor Catherine Riessman from Boston College (http://www2.bc.edu/~riessman/) will be the keynote speaker and invitations are extended to experts in the field, early career researchers and postgraduate students, as well as those who simply wish to explore this powerful approach to understanding the experiences of others. Participants will be encouraged to explore the ways in which the stories they have gathered, whether spoken, written or visual, can be understood and analysed from a narrative perspective.

For further information contact Dr Gillian Vogl: gillian@uow.edu.au

SCHOLARSHIPS
http://www.uow.edu.au/research/rsc/student/scholarships/

- Commercialisation Training Scholarships for HDR Students.

- Honours Scholarships - Up to 40 scholarships of $2,000 each will be made available for eligible students enrolling full-time in 2008 in an Honours degree at the UOW.

- PhD Scholarships available with the Faculty of Informatics in the area Statistical Research. The students will work within one of the UOW’s research strengths, The Centre for Statistical and Survey Methodology, and will be able to work with and visit the industry partners involved in the project in Canberra, Sydney and Wellington.

- The UOW is offering an APA(I) scholarship to a full time candidate, wishing to enrol in a PhD program in Ocean Wave Modelling and Marine Renewable Energy Systems. The stipend for this award is $31,118 per annum for three years (tax exempt), subject to satisfactory progress.

DO YOU KNOW SOMEONE WHO MIGHT LIKE TO RECEIVE THIS RESEARCH NEWSLETTER?
Please send me (vwallace@uow.edu.au) their relevant details and I can add them to an e-mail list (for an electronic copy) or mail list (for a hard copy)

Research news, achievements and events are always welcome. Please send to vwallace@uow.edu.au for the first 2008 issue by Monday 4th February 2008. Thank you to all who sent information throughout the year. We look forward to another big year of research news for 2008. Editor: Vicky Wallace (Research Service Office)

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