

# RESEARCH & INNOVATION NEWS

[www.uow.edu.au/research/newsletter](http://www.uow.edu.au/research/newsletter)

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University of Wollongong



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### Contributions

Contributions to **Research & Innovation News** (Research news, achievements and events) are always welcome.

For inclusions in the next issue, (due for publication in late July), please e-mail details to [taniav@uow.edu.au](mailto:taniav@uow.edu.au) or [vwallace@uow.edu.au](mailto:vwallace@uow.edu.au) by 10th July.



Page 10: The Hobbit was a very strange species  
Read More in the Publications section



Page 14: New Prototype building for the Australian Institute for Innovative Materials (AIIM)

## THE NEW ERA IS EVOLVING

The data collection and processing for the two Trial Clusters is well underway, with the 2010 submission data collection being rolled out across UOW and UOW Dubai during June.

The 2009 trial for the Physical, Chemical and Earth Sciences (PCE) Cluster is in the final stages with ITS taking a key role transforming the data into the required format and systems testing in readiness for the submission from 1 June to 3 July. And staff involved in the 2009 Humanities and Creative Arts Cluster data collection are working towards meeting the end of May deadline for publications output. During June and July Library staff will be making outputs, selected for peer review, available on Research Online or other media if necessary. The HCA submission period will be from 3 August to 21 August.

To coordinate and support UOW stakeholders and data activities,

the UOW ERA Team now consists of the Project Manager and three casual staff: Mr Peter Evans (joined in February), Mr Stephen Barry and Ms Alexandra Quinn (joined in May). Peter is bringing his knowledge of the RIS database and Excel to ERA; Stephen has just completed his PhD with the School of Geosciences and has a wealth of experience in database development, programming and data modelling; and Alexandra is a current PhD Student in Medical Radiation Physics, utilising her Excel skills and experience in administration.

The ERA Team is here to help. For enquiries or more information contact Claudia Perry-Beltrame, ERA Project Manager on [claudiac@uow.edu.au](mailto:claudiac@uow.edu.au) or ext. 4321 or visit our website at <https://intranet.uow.edu.au/raid/era/index.html> for the ERA timeline, field of research (FoR) Codes, cluster and discipline information, ERA Guidelines and other resources.

## NHMRC RESEARCH GRANTS MANAGEMENT SYSTEM (RGMS)

The National Health and Medical Research Council (NHMRC) is currently implementing RGMS which will replace the Informed Filler system. RGMS will be piloted with Development Grants in the upcoming round. It is anticipated that RGMS will be used for all funding schemes in 2010.

The first stage of the RGMS build is the CV and User Profile functionality. This component enables users to store both their CV (which will be used during grant application assessment) and their profile (which will automatically populate grant application forms).

RGMS will also:

- » create grant applications and manage awarded grants online;
- » provide electronic entry and lodgement of expressions of interest, applications, assessments, questions, responses and milestones for all NHMRC grant schemes;
- » facilitate assessment, recommendation and approval processes through on-line access to selected information and flexible work flow;
- » support automated accountable grant administration including contract administration, allocations, payments, variations, accruals, GST, recoveries and acquittals.

Further information on RGMS is available at <http://www.nhmrc.gov.au/grants/rgms>

## Upcoming Funding Opportunities

| Due Date         | Activity  |
|------------------|---|
| 15 June, 2009    | 2010 URC Small Grant Scheme Opens   |
| 7 July 2009      | NHMRC Development Grants (revised deadline)                                     |
| 1 October, 2009  | Ian Potter Foundation deadline for Round 3 General Grants in Arts and Education |
| 26 October, 2009 | Round 2 - URC Research Partnerships Scheme deadline                             |
| 30 October 2009  | Academy of Social Sciences Workshop program deadline                            |

## THE VICE-CHANCELLOR'S EXCELLENCE IN RESEARCH AWARDS 2009

This group of awards recognises the outstanding contributions that academic staff and their partners are making towards research excellence. Congratulations to the following Award recipients:

### Research Excellence for Senior Researchers Award recipient:

- » Professor Mark Walker (Director, Centre for Medical Bioscience, School of Biological Sciences)

### Highly Commended:

- » Prof. Geoffrey Spinks (Materials Engineering, Faculty of Engineering)

### Research Excellence for Emerging Researcher Award:

Dr Simon Moulton (Intelligent Polymer Research Institute, Science Faculty)

### Highly Commended:

- » Dr Aidan Sims (School of Mathematics and Applied Statistics, Faculty of Informatics)
- » Dr Todd Mitchell (School of Health Sciences, Faculty of Health & Behavioural Sciences)

### Outstanding Achievement in Research Partnership:

- » Professor Stephen Pyne (Faculty of Science) with Industry Partner : Johnson and Johnson Research "New pharmaceutical drug discovery"

### Highly Commended:

- » Professor Buddhima Indraratna. With Industry Partner ; Rail CRC "Innovations in design and construction of ballasted trail tracks"

### Excellence in Research Supervision:

- » Associate Professor Brian Jones (School of Earth and Environmental Sciences, Faculty of Science)

### Highly Commended:

- » Prof Xu-Feng Huang, (School of Health Sciences, Faculty of Health & Behavioural Sciences)

The awards will be formally recognised at the 2009 Vice-Chancellor's Award Ceremony on Friday 19 June 2009 from 5pm.

More information at <http://www.uow.edu.au/research/awards/>

## EXTERNAL GRANT SCHEMES

### NHMRC Development Grants : Now Open

Development Grants provide funding support to individual researchers, research teams, or a health and medical research company, in partnership with a researcher/s, to undertake research at the early proof-of-principle or pre-seed stage. The Scheme supports the commercial development of a product, process, procedure or service that if applied, would result in improved health care, disease prevention or provide health cost savings.

The Development Grants Policy and Advice and Instructions to Applicants are now available at <http://www.nhmrc.gov.au/grants/apply/development/index.htm>

Applications close on Tuesday 7 July 2009. Intending applicants should advise Sharon Clarke, Grants Officer, at [clarke@uow.edu.au](mailto:clarke@uow.edu.au). The UOW timetable is available at <http://www.uow.edu.au/research/rso/UOW009255.html>

### Academy of the Social Sciences Workshop Program

The Academy of Science's Workshop program aims to identify issues of national concern in the social sciences, and to focus specialist attention on them by means of workshops and roundtables. A related aim is to position the Program at the cutting edge of social science research in this country. Through the workshops Program, the Academy is now a major facilitator of collective intellectual work in the social sciences in Australia. The Academy is currently calling for proposals for workshops to be conducted between July 2010 and June 2011. Applications close on Friday, 30 October, 2009. Application form and guidelines can be downloaded from:

<http://www.assa.edu.au/programs/workshop/>

Questions regarding the workshops should be addressed to Ms Sarah Tynan, Project Manager (Workshops, Public Forums); email: [tynan.assa@anu.edu.au](mailto:tynan.assa@anu.edu.au); tel: 026249 1788 or contact Elizabeth Phillips in the RSO on Ext. 4522 or by email: [eliza@uow.edu.au](mailto:eliza@uow.edu.au).

### Ian Potter Foundation

The Ian Potter Foundation is one of Australia's leading private philanthropic organisations. The Foundation has a track record of funding projects that improve the Australian community's ability to respond creatively to social, environmental, science and health issues, and that develop our capacity as a nation through the arts and education.

The Foundation funds Small Grants (up to \$20,000) and General

Grants (over \$20,000) in the fields of Arts, Education and Community Wellbeing (three rounds per year in February, June and October), Environment & Conservation, and Science (1 June) and Medical Research and Health (February) There are also separate schemes for Travel and Conference grants (1 June) and Community Wellbeing International Travel grants. Application forms and guidelines can be downloaded from [http://foundation.ianpotter.org.au/how\\_to\\_apply.html](http://foundation.ianpotter.org.au/how_to_apply.html) or contact Elizabeth Phillips, ext. 4522 or email [eliza@uow.edu.au](mailto:eliza@uow.edu.au).

## INTERNAL GRANT SCHEMES

### URC Research Partnerships Scheme

Funding is available from the URC Research Partnerships Scheme to support projects for the establishment of cooperative projects in either new research directions with existing collaborating partner organisations, or involving a research-related link with a new partner organisation(s). Partner organisations can include both industry and public sector organisations engaged in research. It is expected that the project will result in significant research outcomes, such as publications, external research grant applications, improved research relationships and further research activity with the Partner Organisation.

There will be two rounds in 2009: Round 1 closing on 25 May and Round 2 closing on 26 October. Application forms and guidelines may be downloaded from:

<https://intranet.uow.edu.au/raid/rso/urc-research-partnership/UOW021755.html>

For further information, please contact Elizabeth Phillips on ext. 4522 or by email: [eliza@uow.edu.au](mailto:eliza@uow.edu.au).

### URC Small Grant Scheme

Funding is available from the URC Small Grants Scheme to support excellent researchers in the development of strategic research projects that will increase their potential for gaining external funding and to encourage early career researchers to develop their research profiles. Projects are expected to lead to practical outcomes and applications of social and economic value and publications and outputs that enhance the track record of the investigator. The Application form and guidelines will be available from 15 June at:

<https://intranet.uow.edu.au/raid/rso/internalfunding/UOW045662.html>

For further information, please contact Cheryl Jecht on ext 5874; email: [cjecht@uow.edu.au](mailto:cjecht@uow.edu.au).

## ALTC PRIORITY PROJECTS

UOW submitted six full proposals and four expressions of interest to the April round of the Australian Learning & Teaching Council's Priority Projects Program for 2009. It's good to see these numbers increasing as applicants are becoming aware of the support and guidance being offered through CEDIR and the Research Services Office. Congratulations to **Dr Shane Dawson** and **A/Prof Lori Lockyer** who were successful in the 2009 Competitive Grants Program, attracting \$148,000 for their project "Seeing Networks – Visualising and evaluating student learning networks".

Congratulations also to **Prof Sara Dolnicar**, **A/Prof Wilma Vialle** and **Prof Rob Castle** who were successful in the 2009 ALTC's Leadership for Excellence in Learning & Teaching Program, attracting \$220,000 for their project "Succession planning at universities: program for preparing early leaders (PROPEL)".

The next round of ALTC Grants will be invited full proposals to the Leadership for Excellence in Learning & Teaching Program (2nd Round) in July and invited full proposals to the Priority Projects Program (2nd Round), also in July. The Competitive Grants Program will open towards the end of the year – dates to be released. Keep an eye on the RSO website or contact Cheryl Jecht in the RSO at [cjecht@uow.edu.au](mailto:cjecht@uow.edu.au)

## ARC LINKAGE PROJECT GRANTS OUTCOMES

ARC Linkage Project Grants Outcomes (Round 2, 2009) have been released.

Congratulations to the following research teams on their success. Total UOW funding = \$2,967,236

| Researchers  | Faculty                       | Approved Project Title   | Funding   |
|--|-------------------------------|--|-----------|
| Prof SC Jones; Prof A Worsley; Mrs CM Saunders; Ms R White; Mr GT Smith; Mrs M Goldman; Prof D Iverson | Health & Behavioural Sciences | The use of social marketing strategies and adult education principles to improve asthma self management in older people.               | \$355,236 |
| Dr DS Liyanapathirana; Prof HG Poulos; Dr R Kelly  | Engineering                   | New design guidelines and simplified analysis methods for geosynthetic reinforced pile-supported embankments                           | \$106,000 |
| Prof GG Wallace; Dr SE Moulton; Prof M Forsyth; A/Prof RM Kapsa; Dr LL Atanasoska; Dr J Weber          | Science                       | Advanced Materials for Stents  | \$470,000 |
| Dr LD Nghiem; Dr SJ Khan; A/Prof JE Drewes   | Engineering                   | Assessment and optimisation of N-nitrosamine rejection by reverse osmosis for planned potable water recycling applications             | \$213,000 |
| Prof FP Deane<br>Dr J Ciarrochi; Dr LG Oades; Dr TP Crowe  | Health & Behavioural Sciences | Facilitating the transfer of training through values clarification   | \$390,000 |
| Dr D Gerace; Prof A Frino; Dr A Lepone; Prof M Pagano; Prof D Griffiths                                | Commerce                      | Understanding market mechanisms and determinants of transaction costs to achieve greater efficiency in Australian fixed-income markets | \$140,000 |
| Dr ZP Guo; Prof HK Liu; Prof CD Cook; Dr H Zhu; Dr D Wexler; Dr XJ Zhu                                 | Engineering                   | Development of advanced lithium ion battery and battery management system for electric /hybrid electric vehicle applications           | \$240,000 |
| Dr JW Moscrop; Dr D Cuiuri; Prof CD Cook; Dr F Darmann   | Engineering                   | Compact high voltage superconducting fault current limiter employing a new core architecture and novel magnetic materials              | \$370,000 |
| Prof D Sutanto; A/Prof M Zhang; Dr CJ Parker   | Informatics                   | Emergency Control of Catastrophic Disturbances in a Power System   | \$255,000 |
| Prof MJ Morwood; Dr J Ross; Dr KE Westaway   | Science                       | Change and continuity: chronology, archaeology and art in the North Kimberley, Northwest Australia                                     | \$428,000 |

## RESEARCH ETHICS

### ETHICS Agenda Deadlines and Meeting Dates for your diary

#### Human Research Ethics Committee (HREC) Health and Medical

Upcoming meeting on 7th July (agenda deadline June 17th)  
Next meeting August 11th (agenda deadline July 22nd)  
Future meeting September 15th (agenda deadline August 26th)

#### Human Research Ethics Committee (HREC) Humanities, Social Science & Behavioural

Upcoming meeting on 25th June (agenda deadline June 10th)  
Next meeting July 30th (agenda deadline July 15th)  
Future meeting August 27th (agenda deadline August 12th)

#### Animal Ethics Committee

Upcoming meeting June 25th (agenda deadline June 4th)  
Next meeting August 6th (agenda deadline July 16th)

#### Gene Technology Review Committee

Upcoming meeting June 11th (agenda deadline May 21st)  
Next meeting September 3rd (agenda deadline August 20th)

More information at: [www.uow.edu.au/research/rso/ethics/](http://www.uow.edu.au/research/rso/ethics/)

## UNI IN THE BREWERY 2009

All staff, students and the public are welcome and encouraged to contribute to discussion at Uni in the Brewery.



When: Wed. 26th August, 5:30pm-6:30pm  
Who: A/Prof Chris Gibson  
(School of Environmental Sciences)

**“Serious fun: Festivals and the revitalisation of rural Australia”**

Economic decline in non-metropolitan Australia has become an issue of national importance – and has been magnified by the recent financial crisis. Against a backdrop of uneven growth and decline, numerous places have sought to reinvent themselves through staging festivals. Struggling towns in non-metropolitan Australia have promoted festivals of all sorts, both as a community-building exercise, and because they can bring visitors and income. Chris will discuss results from Australia’s largest ever research project on the social and economic importance of festivals for non-metropolitan Australia.

#### Final UNI IN THE BREWERY for 2009

When: Wed 21st October, 5:30pm - 6:30pm  
Who: A/Prof Lori Lockyer (Faculty of Education)

**“Rubens Wiki – Today’s educational opportunity? Tomorrow’s obsolescence? – the changing nature of educational technology in schools.”**

More at: <http://www.uow.edu.au/research/unibrewery>

## HDR STUDENTS SPRING ENROLMENTS/VARIATIONS

Spring Enrolments for new HDR students will begin shortly. Once enrolled please ensure that all of your enrolment details are correct, for example - full time/part time or correct coursework subjects.

Thesis subjects are only THES 924 (full time) or THES 912 (part time). Ongoing HDR students are also asked to check their Spring enrolments.

Any variations to enrolments, including leaves of absence are asked to be sent to the Research Student Centre as soon as possible.

No enrolment changes or variations can be made after the census date of **31st August 2009**. Any changes to enrolment subjects or leave requests require the support of the Principal Supervisor or Head of Postgraduate Studies.

When applying for enrolment variations, leave of absence, status letters etc., please note that student request forms are now available through SOLS (Student On Line System) menu under 'Student Forms'.

Any enquiries or requests can also be made directly to the Research Student Centre, June Toussis (HDR Enrolment Officer) Building 20, Ground Floor on 42215453 or [junet@uow.edu.au](mailto:junet@uow.edu.au)

## HIGHER DEGREE RESEARCH (HDR) STUDENT ORIENTATION AND ENROLMENT DAY

The Spring Session HDR Student Orientation and Enrolment Day for HDR students will be held on Tuesday, 28th July 2009.

If you are a new HDR student and did not attend the Autumn Orientation please ensure you attend the Spring session one.

If you have any questions about the orientation or your enrolment please contact Mari Dwarde, HDR Events Officer in the Research Student Centre on (02) 4221 5454, [mdwarte@uow.edu.au](mailto:mdwarte@uow.edu.au)

## RESEARCH - SHAPING YOUR FUTURE

(Lunch Session – Tuesday, 30th June 2009)

Are you currently undertaking an Honours degree? Are you curious about where to go from here? Could a research degree be the next step for you? The '2009 Research - Shaping Your Future' Lunch will give you the opportunity to:

- find out about the ground breaking research you can be involved in within your faculty
- get faculty specific information
- hear from current higher degree research students about their experiences while undertaking a higher degree research degree.

For more details please contact Mari Dwarde, HDR Events Officer in the Research Student Centre on (02) 4221 5454, or email [mdwarte@uow.edu.au](mailto:mdwarte@uow.edu.au)

## Australian Scholarships

THE PATHWAY TO EXCELLENCE

### Endeavour Awards

The Endeavour Awards Program offers a range of opportunities for international fellowships, sponsored study and professional development, particularly where the application demonstrates strategic international links.

It is an internationally competitive, merit-based scholarship program providing opportunities for citizens of the Asia-Pacific, Middle East, Europe and the Americas to undertake study, research and professional development in Australia. Awards are also available for Australians to undertake study, research and professional development abroad.

**Closing Date for 2010 applications is 31st July 2009**

Further information including eligibility, selection criteria and the application process please visit the website at [www.endeavour.deewr.gov.au](http://www.endeavour.deewr.gov.au) or contact Research Student Centre on Ext. 5672 or by emailing Christine Mason at [cmason@uow.edu.au](mailto:cmason@uow.edu.au)

## COMMERCIAL RESEARCH & INNOVATION

[www.uow.edu.au/research/commercial](http://www.uow.edu.au/research/commercial)

## BUDGET OUTCOMES FOR COMMERCIAL RESEARCH AND COMMERCIALISATION

The 2009-10 Commonwealth Budget announced the establishment of the Joint Research Engagement Program. Although the details were not announced, it seems that there will be an increasing emphasis placed on funding from non-traditional funding routes outside of the nationally competitive grants scheme.

This will create an environment where Universities will be encouraged to focus on enhancing contract research income. Through the program, the Government will redirect \$1.2 billion over four years (including \$158.8 million in 2009-10, \$323.9 million in 2010-11, \$330.0 million in 2011-12 and \$337.6 million in 2012-13) from the Institutional Grants Scheme.

The Joint Research Engagement Program will use a revised allocation formula which removes competitive grant income as

a driver of funding. The Government states that this change is intended to give greater emphasis to end-user research by encouraging and supporting collaborative research activities between universities, industry and end-users.

The Government also announced that it will provide \$196.1 million over four years to establish the Commonwealth Commercialisation Institute, which will support research commercialisation and early stage company development by small and medium enterprises.

It is not clear yet how this will relate to University commercialisation initiatives but the Government states that the model will be further developed in consultation with research organisations.

Business mentors, expert advice services and capital investment are all likely to be part of the new hands-on approach, which will have a primary goal of leveraging private sector capital.

## COMMERCIAL RESEARCH PROJECT UPDATE

**Project Title: Methane Emissions from Sheep Grazing in South Eastern Australia**

**Team: Dr Frances Phillips, Professor David Griffith, Travis Naylor**

The Centre for Atmospheric Chemistry (CAC) in collaboration with the Department of Primary Industries Victoria are conducting research to determine the applicability of open path Fourier transform infra red technology to measure the methane emissions from grazing sheep in rural Victoria. There is currently very little information on methane emissions from sheep and the research should provide a better understanding on the contribution of agriculture to the Australian National Greenhouse Gas Inventory.

Dr Phillips is hopeful that the data collected will lead to development of mitigation strategies to reduce methane emissions into the atmosphere.



The Defence Materials Technology Centre is a partnership between industry, universities, government research agencies and Commonwealth and State Governments. The Armour Applications program of the DMTC based at UOW will be developing new materials such as improved armour protection (high strength steels) and new high-tech materials for land, sea and air defence platforms.

The DMTC will also have an education and training focus to maintain a strong postgraduate and undergraduate research program, promote close industry involvement that enhances the skills of graduates and facilitates technology transfer and develop and facilitate modular taught courses from postgraduate to vocational level. Course contents will include: basic material

science, Defence material requirements, degradation and repair, maintenance and reclamation, ballistic and blast performance, fabrication considerations and production technologies.

The CEO of the DMTC Dr Mark Hodge will be visiting UOW on the 1st June to discuss the DMTC program and meet with UOW staff and Industry partners.

Further information on the DMTC can be found at [www.uow.edu.au/research/commercial/dmtc](http://www.uow.edu.au/research/commercial/dmtc) or [www.dmtc.com.au](http://www.dmtc.com.au)

If you would like any further information on whether your research expertise may be useful to the DMTC or how your business may become a supporting participant please contact Brett Weeden [bweeden@uow.edu.au](mailto:bweeden@uow.edu.au) or Professor John Norrish [john\\_norrish@uow.edu.au](mailto:john_norrish@uow.edu.au)

## COMMERCIALISATION WORKSHOPS STIMULATING OUR CULTURE OF INNOVATION

Around 8 UOW academic staff recently participated in advanced commercialisation workshops held in April. Organised annually by UniQuest, this provides our staff with an intense offsite 2 day workshop for those actively involved in research to learn more about getting their ideas, discoveries and inventions out to the global market. Experienced professionals from within the technology commercialisation industry business and legal services provided presentations and shared personal experiences on the various issues and phases involved in the commercialisation process. Our University participants took their own active research projects to the workshop and a team approach applied to the chosen project being worked through the planning phases for market commercialisation.



## WEB OF SCIENCE – NEW SEARCH OPTION: FUNDING AGENCY

Are you interested in finding papers that refer to a funding agency, for example the ARC, in high impact journal articles? Web of Science has added two new search options – Funding Agency and Grant Number. A search may be constructed in the following way to locate papers with ARC as the funding agency from University of Wollongong.

Web of Science is scanning journal articles, from August 2008 onwards, for acknowledgement to funding agencies and produces a table with Funding Acknowledgement and if provided, the Grant Number.

## RESEARCH ONLINE PREPARES FOR THE ERA

The Library is working closely with the ERA team, ITS and relevant faculty officers to prepare Research Online for the storage of digital objects required for the upcoming ERA quality assessment process. Research outputs from the humanities and creative arts disciplines will be made available to the external assessors via RO throughout August and September. The process will be repeated on an expanded scale during 2010.

## DISCOVER YOUR RESEARCH SKILLS

It's quick, it's easy, it has the answers! Are you a HDR supervisor or a HDR student? Take the challenge to see if you still have *it*.

Review and check your research skill level.

This short quiz will quickly inform you on what you remember and what skills you need to be using to perform effective searches in your area of research.

Feedback from students has been overwhelmingly positive, so try it now.

[www.library.uow.edu.au/researchers](http://www.library.uow.edu.au/researchers)

Library homepage > Information for > Researchers > Self assessment > Discover your research skills



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Please send their email to [taniav@uow.edu.au](mailto:taniav@uow.edu.au) or [vwallace@uow.edu.au](mailto:vwallace@uow.edu.au)

# NEW RESEARCH STAFF

## Dr Andrew Whelan

Andrew Whelan, who arrived from Ireland in April as a lecturer in Sociology and researcher with CAPSTRANS, is navigating his way around his new home of Wollongong the hard way – by bike. Despite not having had any close calls, he's sure that our roads weren't built with cyclists in mind, and is still being "cautious" when riding. In contrast, he's liking the weather ("in Ireland it rains all the time of course") and in his short time here has been surprised by the strong engagement Australians have with sport.



Before he joined the School of Social Sciences, Media and Communication (SSMC) Andrew was working as a researcher with the Internet Research Group in the Sociology Department at Trinity College, Dublin. He received his PhD in sociology from the same department in 2007, having previously studied Philosophy, Politics and Economics as an undergraduate in Somerville College, Oxford. He took some time out to fill us in on his research and an unfulfilled desire to be a musician ...

*My collaborative work with the Internet Research Group was mainly focused on migrant use of information and communication technologies (ICTs), with an interest in political potentials, and in how ICT use is spatialised (for instance, in internet cafés). My research centers primarily on online interaction, musical subcultures, masculinities, and the linguistic and discursive performance of identity. All of these areas are drawn together in my book, Breakcore: Identity and Interaction on Peer-to-Peer, which was published in 2008. The book addresses textual interaction online, primarily exploring the intersections between subcultural affiliation and gender in file-sharing chatrooms dedicated to electronic dance music. I'm currently conducting research on discourses of national identity on 'anti-immigration' blogs and online fora, and the relations between gender representation and grotesque realism in contemporary heavy metal.*

*My research started with an interest in music and the ways technology seems to be changing music at the moment (peer-to-peer music distribution, like Napster; sampling and copyright, these sorts of issues).*

*Right now I'm working on heavy metal and my previous research was on electronic dance music, but at the moment I'm enjoying investigating a couple of other genres: 60s psychedelic rock and garage rock, 70s funk, 80s synth pop and new wave ... it's always great to stumble into some seam of music which has mostly been forgotten, and I'm always blown away by the diversity of all the music out there.*

## Dr Jason Wilson

Jason Wilson also joined the SSMC earlier this year. Jason was excited about UOW's reputation for innovation and the prospect of moving to a "beautiful part of the world", as well as working with the colleagues he now shares a corridor with. Jason gave us the lowdown on his research ...



*I research digital culture and the online public spheres - I've published extensively on the growth of the online public sphere via blogs and online e-democracy initiatives, and the aesthetics and history of early videogames. I am concerned with not just the "bleeding edge" of new technologies, but with giving digital communications technology a history, and teasing out their political impacts.*

*I am collaborating with colleagues at QUT, University of Sydney, and the University of Queensland, and I hope to work with other researchers of digital culture here - like David Marshall, Mark McLelland, Chris Moore and Andrew Whelan - to make Wollongong even more of a beacon for research that helps us understand the transformations that digital communications technologies are bringing about. More at: <http://gatewatching.org>*

## IHMRI RECEIVES FUNDING BOOST



The Illawarra Health and Medical Research Institute (IHMRI), a partnership between the University of Wollongong (UOW) and South Eastern Sydney and Illawarra Area Health Service, received a significant boost in May with the announcement of a \$6 million contribution by the ITC Group of Companies, the commercial arm of UOW.

The contribution, made via UOW's recently-established Medical Research Support Fund, will form the core of funding for IHMRI over the next three years.

Also in May came notification that IHMRI has qualified for government infrastructure funding through the NSW Office of Science and Medical Research (OSMR). The amount of funding that will be allocated to eligible institutes is yet to be determined.

With the construction of IHMRI's new building on the University campus now well underway and the recent formation of its medical and scientific research teams, IHMRI is on track to begin work on a number of collaborative projects that aim

to improve clinical practice and ultimately build a healthier community.

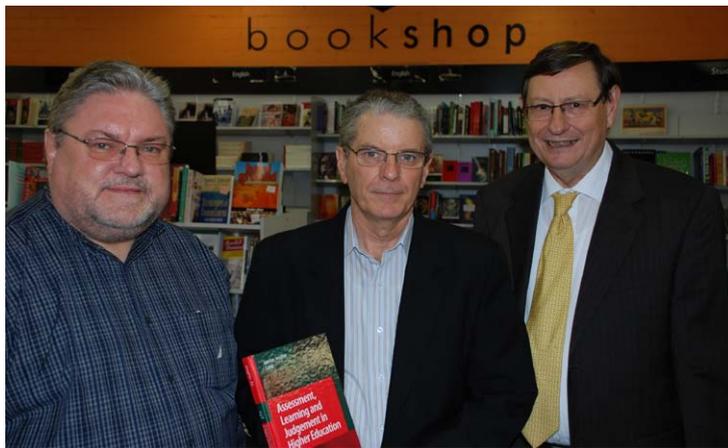
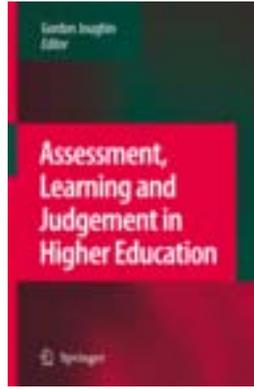
Work at the Institute will focus on six research themes: cancer, healthy ageing, metabolic conditions, neuroscience and mental health, primary care and rural health, and infectious diseases. Through these themes, the Institute's research program will address common health and medical issues in the Illawarra, ensuring its relevance to the local community.



## Assessment, Learning and Judgement in Higher Education

Edited by Gordon Joughin, CEDIR  
Dordrecht: Springer, 2009

This book reflects a major shift in thinking about assessment of learning in universities — from assessment as a form of quasi-measurement to assessment as a process of informing and making judgements. Aligned with this shift, contributors argue for reconsidering the role of holistic judgement in assessment, for moving the locus of assessment from within the course to the world of practice, and for developing new standards of validity, reliability and fairness that are more appropriate for learning-oriented assessment. The book represents an important contribution by leading assessment scholars in Australia, the UK, the USA and Europe to reconceptualising the nature of student assessment and those aspects of assessment that critically impact on learning.



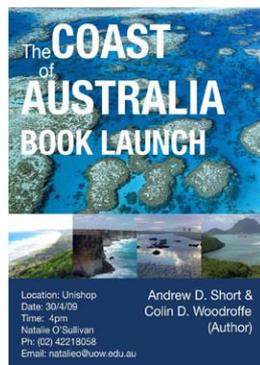
## The Coast of Australia

By Andrew Short and Colin Woodroffe

Australia has one of the longest, most diverse and pristine coastlines in the world. From the oldest rocks on the planet to those that are still evolving, the Australian coast is a dynamic, ever-changing suite of dramatic landforms and productive ecosystems.

From iconic beaches such as Bondi and long unbroken sands of the Coorong to the endless curtain of the Nullarbor cliffs along the Great Australian Bight, this illuminating book explores these magnificent landforms, revealing how they formed and continue to change. It details the various coastal systems that operate, including beaches, dunes, estuaries, deltas, rocky coast and coral reefs. Written by two of Australia's leading coastal experts, Andrew Short and Colin Woodroffe (Earth and Environmental Sciences), The Coast of Australia provides the first comprehensive account of the Australia Coast.

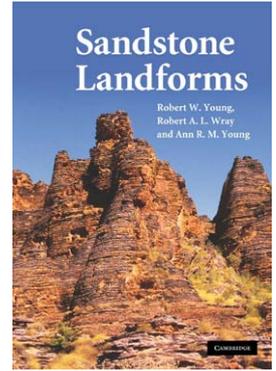
Covering 36,000km of shoreline, The Coast of Australia in an engaging exploration of this massive, largely undeveloped and highly variable coast line.



## Sandstone Landforms

By Robert W. Young, Robert A. L. Wray and Ann R. M. Young

Sandstones form the backdrop to some of the world's most spectacular scenery — forming high mountain ranges, bold cliffs, extensive plateaus, impressive caverns and magnificent towers. They are found all over the planet and in all climates, from hot deserts to the polar region, and provide the construction material for iconic buildings in numerous countries. This publication presents a holistic account of sandstone terrain for researchers and graduate students in a variety of fields including geography, geomorphology, sedimentology and geomechanics. Dr Robert Wray is with the School of Earth and Environmental Sciences. Robert and Anne Young are former academics of the School.

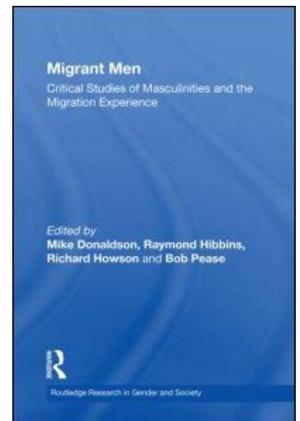


## Migrant Men: Critical Studies of Masculinities and the Migration Experience

Edited by Mike Donaldson, Raymond Hibbins, Richard Howson, Bob Peasepart

CAPSTRANS researcher Dr Mike Donaldson and CAPSTRANS board member Dr Richard Howson, have teamed up with Dr Raymond Hibbins (Griffith University) and Dr Bob Pease (Deakin University), to edit a new publication which is being released in early June.

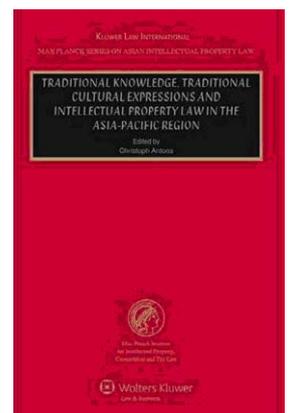
This edited volume contributes an important collection of chapters to the growing theoretical and empirical work being undertaken at the international level on men and migration. The chapters presented here focus on what we might call 'migratory masculinities': the experiences men have of masculinity upon immigration into another national, ethnic, and cultural context. How do these men (re)construct their conceptions of masculinity? Where are the points of tension, ambivalence or assimilation in this process? Featuring interviews and data drawn from migrants working and living in Australia, this book explores how the gender identity of men from non-English-speaking backgrounds is influenced by the experiences of migration and settlement in an English-speaking culture, across various cultural spheres such as work, leisure, family life and religion.



## Traditional Knowledge, Traditional Cultural Expressions and Intellectual Property Law in the Asia-Pacific Region

Edited by Christoph Antons  
Kluwer Law International

Professor Christoph Antons, Director of the Centre for Comparative Law and Development Studies in Asia and the Pacific (CLDSAP) and member of CAPSTRANS and of the ARC Centre of



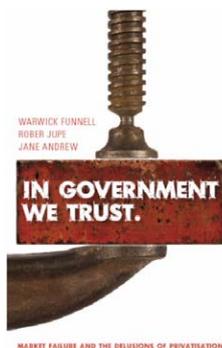
Excellence for Creative Industries and Innovation (CCI), recently published an edited volume in the Max Planck Series on Asian Intellectual Property Law. "Traditional Knowledge, Traditional Cultural Expressions and Intellectual Property Law in the Asia-Pacific Region" examines international proposals for the legal protection of traditional knowledge/traditional cultural expressions and their implementation at local and national level. Authors provide multidisciplinary perspectives from intellectual property and international law as well as from legal sociology, anthropology and media and communication studies. The updated and revised contributions were originally presented in the context of a CLDSAP workshop held at UOW with support from CCI and the Max Planck Institute for Intellectual Property, Competition and Tax Law. <http://www.kluwerlaw.com/Catalogue/titleinfo.htm?ProdID=9041127216>

## Market Failure and the Delusions of Privatisation

### In Government We Trust: Market Failure and the Delusions of Privatisation

By Professor Warwick Funnell and Dr Jane Andrew

A highly topical book, *In Government We Trust: Market Failure and the Delusions of Privatisation* by Professor Warwick Funnell and Dr Jane Andrew of the School of Accounting and Finance, Faculty of Commerce, with Robert Jupe of the University of Kent, was recently launched in the House of Commons, UK. It was also launched in Canberra at Smiths Alternative Books, on the 19 March with Warwick Funnell and Jane Andrew addressing the audience and participating in a Q & A session.



## Penny Wise, Pound Foolish

By Ciorstan Smark

The deinstitutionalisation of people from mental hospitals in Australia and the US over the past 50 years has cost the community dearly, according to Ciorstan Smark (School of Accounting and Finance, Faculty of Commerce) in her new book highlights how growing expenses in keeping mental institutions open made ideas of community care attractive to governments footing the bills for mental institutions.



## "NATURE" features the Hobbit

Two papers in *Nature* magazine recently substantiates the view that *Homo floresiensis* (nicknamed the 'Hobbit') that lived on the Indonesian island of Flores until at least 17,000 years ago, was a distinct species -- though even stranger than anyone had realised.

Researchers from the University of Wollongong co-led in the discovery of the 'hobbit' five years ago and Professor Mike Morwood (Earth and Environmental Sciences) is the co-author of one of the papers appearing in *Nature* entitled '*The foot of Homo floresiensis*'. In the paper researchers show that although the feet had fully adducted big toes, just as in modern humans that walk fully upright, they



were much longer relative to the rest of the lower limb than in modern humans. They instead resemble the proportions seen in some apes.

Their findings raise the possibility that the ancestor of this species was not *Homo erectus*, as many had thought, but was another more primitive and remote hominin.

"The hobbits still remain mystifying anomalies. They are the wrong species in the wrong place at the wrong time according to conventional models for early hominin dispersal," Professor Morwood said.

View videos & learn more about the Hobbit. Visit <http://www.uow.edu.au/research/profile/index.html>

## Cover for Energy & Environmental Science Journal

By Dr Jun Chen and Dr Andrew Minett, Professor Gordon Wallace, Dr Jiazhao Wang and Professor Hua Kun Liu

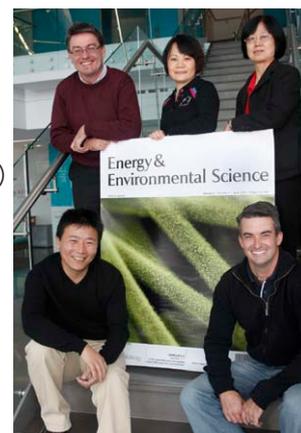
A team from the University's ARC Centre of Excellence for Electromaterials Science (ACES) comprising researchers from IPRI and the Institute for Superconducting and Electronic Materials (ISEM) has had their research on carbon nanotubes selected as the cover for *Energy & Environmental Science*.

*Energy & Environmental Science* is a new international journal linking all aspects of the chemical sciences relating to energy conversion and storage, alternative fuel technologies and environmental science. It particularly welcomes work of an interdisciplinary nature across both the (bio) chemical and (bio) physical sciences and chemical engineering disciplines.

This marks a continuation of the collaboration between IPRI and ISEM, and the first paper on the research published since the two research teams moved to the Australian Institute for Innovative Materials (AIIM) facility at UOW's Innovation Campus.

The title of the paper published in the journal is "Carbon nanotube network modified carbon fibre paper for Li-ion batteries".

**Pictured: Dr Jun Chen and Dr Andrew Minett (at front) and Professor Gordon Wallace, Dr Jiazhao Wang and Professor Hua Kun Liu (back row).**



## Paper published in "Science"

Pacemakers and bionic ears (cochlear implants) were the first medical bionic devices to be used successfully in humans. Recent developments in organic electronics and nanotechnology has greatly expanded the bionic materials store to make possible the design and creation of a whole new range of bionic devices.

This positive medical scenario is the theme behind an article to be published recently in the well-known journal, *Science*, by a trio of UOW researchers.

The Perspectives article, entitled "Electrode-Cellular Interface" was contributed by the Director of UOW's Intelligent Polymer Research Institute (IPRI) and Executive Research Director of the ARC Centre of Excellence for Electromaterials Science (ACES), Professor Gordon Wallace; Chief Investigator for ACES and inventor of the bionic ear, Professor Graeme Clark; and Dr Simon Moulton (IPRI).

**Pictured: Simon Moulton & Gordon Wallace**



## PhD student lands amazing book deal

A story about a witch clan living on the South Coast has landed a PhD student in Creative Arts offers from a major publisher on a three-book deal.

"I am amazed and excited that this could happen to a first-time novelist," said **Van Badham** who is in the last few months before her Creative Writing thesis is submitted.

Her thesis is on "Propaganda Models, the Working Class and Disney's The Lion King". Van's PhD project was an epic three-hour play about the Baader-Meinhof gang.

Van is already an established playwright and writer for radio but last year her agent encouraged her to develop a story idea about a witch clan living on the South Coast into novel form. An unfinished manuscript of 55,000 words was sent out to publishers and within a week she had received offers on a three-book deal.

Pan MacMillan beat out offers from two other international publishers to acquire the rights to what is currently being called The Burnt Snow Trilogy. The manuscript is already drawing attention from film and TV developers for potential future adaptations. The story is a romantic, paranormal saga about a girl from a sleepy seaside town that becomes a battleground in an ancient battle between witch-clans and witch-hunters.

Van returns to Wollongong in October to begin the editorial process for the first of the Burnt Snow Trilogy, with its intended release date of April 2010.

## Endeavour Research Fellowship awarded to UOW scientist

**Dr Vidiya Ramachandran** (School of Biological Sciences) is the recipient of a prestigious Endeavour Research Fellowship awarded by the Australian Government. The fellowships are given to enable high achieving Australian scientists to undertake research in participating countries within the Middle East and Asia/Pacific region.

She is currently undertaking her four month research project at the Indian Institute of Science (IISc), Bangalore, India.

Her fellowship work focuses on evaluating the protective efficacy of several vaccine candidates against group A streptococcus, a bacterial pathogen which causes a spectrum of human diseases ranging from pharyngitis to necrotising fasciitis, rheumatic fever and rheumatic heart disease. This project is also in collaboration with scientists at the Queensland Institute of Medical Research, Brisbane, Australia. Dr Ramachandran is hoping her short term research visit to IISc, will form valuable linkages and networks between UOW and the host institution, leading to long term research collaborations.



## Association for Computer Methods and Advances in Geomechanics award goes to UOW researcher

### Prof. Buddhima Indraratna

(Engineering) was awarded the OUTSTANDING CONTRIBUTION MEDAL-REGIONAL from the International Association for Computer Methods and Advances in Geomechanics, earlier this year. This medal recognizes individuals who have made outstanding and seminal research contributions in geomechanics, which have been adopted for basic research and practical applications. Consideration is given to both academic and professional contributions.



Also at a recent special gathering of Engineering Staff at Shanghai University of Science and Technology, **Prof Buddhima Indraratna** received the title of Honorary Professor of Civil Engineering and Advisor for its Geotechnical Research Program supported by extensive funding from the Chinese Government. Buddhima's visit to Shanghai marks the beginning of what is hoped will be a strong future collaboration between the Civil Engineering staff of the Universities within the Shanghai consortium of Technological Universities and the CME School. It is also hoped that a MOU will be drafted and agreed upon in the near future for exchange of staff and postgraduate research students.

## Informatics academic secures Official Statistics Research Grant

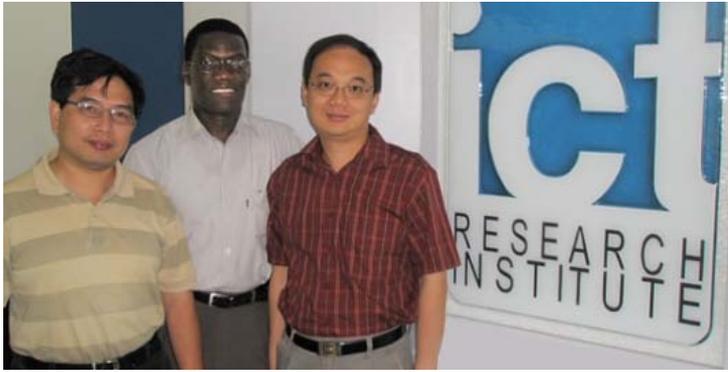
**Prof. Ray Chambers** (Centre for Statistical and Survey Methodology, Informatics) has been successful in securing an Official Statistics Research Grant for 2009-2010 on "Unbiased Estimation for Linked Longitudinal Survey Data".



Longitudinal data sets created by linking a variety of administrative and survey data sources are now an important contributor to analytic outputs from Official Statistics agencies. However, when these data are linked via probabilistic matching, the uncertainty in the matching introduces bias and additional variance into standard methods of estimation. In a previous OS Research project "Unbiased Estimation for Linked Data Analysis", Prof Chambers successfully developed theoretical and practical approaches to correcting this bias and correctly estimating the variance for both linear and generalised linear regression models fitted to data obtained by linking two cross-sectional administrative data sources. See Chambers, R. (2008). Regression Analysis of Probability-Linked Data. Statistics New Zealand Official Statistics Research Series, Vol 4, 2008. This project will extend these results to the practically important situation where the linkage is between a sample survey and an administrative register, and where the data being linked are intrinsically longitudinal in nature, so the focus is on unbiased estimation of the dynamics of relationships in the linked data.

For more information on other projects secured within the Centre for Statistical and Survey Methodology go to: <http://cssm.uow.edu.au/projects/index.html>

## Informatics hosts Computer Security Conference



The ASIACCS 2009 (the Association for Computing Machinery Symposium on Information, Computer and Communications Security) was held in Sydney recently. It was hosted and sponsored by UOW's Centre for Computer and Information Security Research (within the ICT Research Institute) together with Macquarie University and the University of Calgary, Canada.

ASIACCS, now in its fourth year, has previously been held in Taiwan, Singapore and Tokyo. The Association for Computing Machinery (ACM) is the world's largest educational and scientific computing society, and participants from around the world, including delegates from Austria, US, UK, Belgium, Luxembourg, Japan, Korea, India, Singapore, China, Denmark and Canada, attended the conference. General Co-chairs of the conference included Associate Professor Willy Susilo and Dr Wanqing Li, and on the organising committee were other UOW academics including Dean of Informatics Professor Philip Ogunbona and Associate Professor Yi Mu.

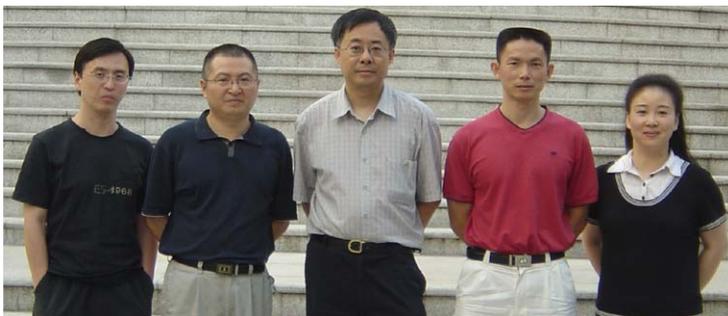
## Cancer Council funding awarded to UOW researchers

**Prof Anatoly Rozenfeld and Prof Peter Metcalfe, in collaboration with Dr Matthew Williams (SESIAHS),** were awarded \$270,925 in funding over three years by The Cancer Council for their project titled 'A Dosimetric Inter-Comparison of Australian Radiotherapy IMRT Systems (ICARIS)'.



Anatoly Rozenfeld has also recently been appointed to the Academy of the National Health and Medical Research Council (NHMRC).

## Expanding research collaboration with Chinese universities



Associate Professor Gary Tian, the Director of the newly established Chinese Commerce Research Centre (CCRC) in the School of Accounting and Finance, is expanding his centre's research collaboration with Chinese universities. Late last year, he was invited to deliver inaugural research seminars in both Investments and Corporate Finance series for the HRD students

in the School of Business at Sun Yat-Sen University in China. Sun Yat-Sen University was ranked as the 10th university in China in 2008.

In order to further expand the research collaboration with Chinese universities, the Faculty of Commerce is expected to sign a MOU with the School of Business at the Sun Yat-Sen University. This official MOU will facilitate the exchange of academic visits; attract more PhD students funded by prestigious China Scholarship Council and encourage joint research program and co-sponsor international conferences between the two parties.

## Informatics academic wins further accolade

Senior Lecturer Dr Byron Keating (Information Systems & Technology), has been awarded an Outstanding Doctoral Research Award from Emerald Publishing and the European Foundation for Management Development for his PhD.

Emerald Publishing Business Manager, Andrea Gilbey, presented a certificate to Dr Keating during a special visit to Wollongong in April.

Dr Keating's PhD focused on customer relationship management in a multichannel service context.

Last year, Dr Keating was the recipient of two prestigious external awards -- an Endeavour Research Fellowship and an Australian Development Research Award.

These competitive research awards provide support for Dr Keating to investigate ethical business practices in different service supply chains in the Asia Pacific.

## New CAPSTRANS board to map out next era of research excellence



The Centre for Asia Pacific Social Transformation Studies (CAPSTRANS) is celebrating its tenth anniversary in 2009. To mark the occasion, the ARC Centre of Excellence is relaunching its research agenda with a strong emphasis on innovation, interdisciplinarity and collaboration.

From its basis in UOW's Faculty of Arts, the centre invites input from researchers across the University whose work has the potential to contribute to the study of social transformation across the Asia Pacific region, a research area for which the University

of Wollongong has a well-established national and international reputation.

A new board has been formed to drive CAPSTRANS' research and planning agenda and provide strategic advice to the centre's Director. The board is chaired by Professor Wenche Ommundsen, Dean, Faculty of Arts (from August 09), and an international expert on postcolonial and diasporic literatures.

The board includes Professor John Patterson; CAPSTRANS Director, Associate Professor Tim Scrase (with expertise on globalisation in Asia); Associate Professor Mark McLelland (Japanese, gender and media studies); Dr Julia Martinez (Asia, Australia and diasporic histories); Dr Richard Howson (gender and masculinity studies); and Faculty of Arts Manager, Ms Maureen Dibden. They will be joined by Professor Luke McNamara (Dean of Law), Professor Phillip Ogunbona (Dean of Informatics) and Professor Louise Edwards (Professor of China Studies and Director of the UTS China Centre).

**Anthony Ashbolt** (CAPSTRANS) was an invited delegate to the Forum held in Old Parliament House and organized by peak public school organizations including the Australian Education Union (March 27-28). The Forum was opened by the Deputy Prime Minister Julia Gillard and the key note speaker was Geoffrey Robertson. Paper givers included Lindsay Connors, Michael Bachelard, Adam Rorris, Chris Bonnor and Gerard Noonan.

### The Power of Ethical Marketing: Students reveal good and bad marketing practices



**Dr Venkat Yaramandrum** (Commerce) has joined the centre for Centre for Social Marketing Research to expand his research and teaching interests and enable students to be involved in socially innovative commerce projects. Recently, five hundred UOW Commerce students studying social responsibility and ethics in marketing presented their critiques of real businesses employing exaggerated claims, false statements and controversial marketing practices. Working in teams of five, the students have assessed the impact of marketing practices – from good, to bad to controversial – and created 100 posters that were displayed at UOW's McKinnon Foyer. "The students are learning to look at the total effect of all marketing decisions on society. They see how swiftly one controversial action can undermine all the positive perception a company has built." Says Venkat.

### Accounting History Special Interest Group (AHSIG) 2008 Manuscript Award

**Professor Warwick Funnell** (School of Accounting and Finance, Faculty of Commerce) has been awarded the Accounting History Special Interest Group (AHSIG) 2008 Manuscript Award for his article entitled "The 'Proper Trust of Liberty': economical reform,

the English constitution and the protections of accounting during the American War of Independence". This award-winning article is published in Accounting History, Vol. 13, No. 1, February 2008. The 2008 Manuscript Award is sponsored by the School of Commerce, University of South Australia.

### UOW expert witness called to give evidence

**Dr Jane Andrew** (School of Accounting and Finance, Faculty of Commerce) was an expert witness called to give oral evidence at the NSW Parliamentary Inquiry into the Privatisation of Prisons and Prison-Related Services on the 20 March 2009. She attended with Dr. Damien Cahill from the Discipline of Political Economy at University of Sydney

### UOW student in the awarded travel grant

**Angela Marshall**, BSc(Advanced)(Hons) student in the School of Earth and Environmental Sciences has been awarded a travel grant of US\$1,500 to participate in the Society of Economic Geologists Foundation, Inc. (SEG) Foundation-sponsored student field trip, "Gold Systems of Northern Nevada, 12-21 May 2009.

### UOW student selected to represent Australia as a UN youth ambassador

**Chris McLean** was one of three University students selected to represent Australia as a United Nations youth ambassador at Eco-Minds, an Asia Pacific youth forum on sustainable development, which was held in New Zealand in May. Chris took part in a unique, hands-on program to develop solutions to some of the major environmental challenges facing our planet.



Chris is studying a PhD in Biological Sciences. His supervisor is Professor Ross Bradstock. The other two students selected are from ANU and University of Western Sydney.

### Indo-Australian Biotechnology grant jointly secured by UOW researcher

**Paul Keller** (School of Chemistry) and Suresh Mahalingam (Uni Canberra) were successful with a grant of \$440,000 over 3 years from the Indo-Australian Biotechnology Fund: "Mechanisms of Chikungunya virus disease: mouse model, virulent and fitness determinants and the development of novel therapeutics".

### What is chikungunya fever?

Chikungunya fever is a viral disease caused by the chikungunya virus (CHIKV) which is transmitted to humans through the bite of an infected mosquito. CHIKV was first discovered during an epidemic in Tanzania in 1953, and has since been identified in west, central and southern Africa and many areas of Asia. The virus is present throughout much of Africa, with transmission thought to occur mainly between mosquitoes and monkeys.

### What type of illness does chikungunya virus cause?

Chikungunya is a Makonde word (one of the local languages in Tanzania) meaning 'that which bends up', and describes the symptoms caused by the severe joint pains that usually accompany the infection. CHIKV infection can cause a debilitating illness, most often characterized by fever, headache, fatigue, nausea, vomiting, muscle pain, rash, and joint pain.

The illness typically starts from 3 to 7 days after a person is bitten by an infected mosquito, but it can sometimes take up to 12 days for symptoms to appear. "Silent" CHIKV infections (infections without illness) do occur, but how commonly this happens is not yet known.

Reference: Australian Government, Department of Health and Ageing, Chikungunya fever Fact Sheet

## REGIONAL JOBS BOON AS BUDGET DELIVERS NEW 'AUSTRALIAN-FIRST' FACILITY FOR UOW



The recent Federal Budget announcement delivered a win-win for the University of Wollongong (UOW) and the region with at least 200 construction jobs created for the initial phase to build the \$50 million "Australian Institute for Innovative Materials (AIIM) -- Processing and Devices" Facility.

The new building will be developed alongside the existing Australian Institute for Innovative Materials (AIIM Building) at UOW's Innovation.

Multifunctional materials (such as electromaterials that generate and/or transfer electric charge -- an area where UOW is a recognised international leader -- have the potential to solve many of the world's health and technology problems. However, many such advanced multifunctional materials cannot be processed using conventional methods.

Deputy Vice-Chancellor (Research) Professor Raper said the challenge now for UOW was to take these materials from fundamental research, through the proof of concept stage and into real world applications, novel fabrication, processing and to develop manufacturing methods. "Currently, no university in Australia (or internationally to our knowledge) is making this link and industry is typically reluctant to invest in further development or application until there is demonstrated proof-of-concept with clearly defined and cost effective materials processing and device fabrication," Professor Raper said.

## ELECTROCHEMICAL SOCIETY FELLOWSHIP AWARDED

PhD student **Shulei Chou** (ISEM) has been awarded a very prestigious and highly competitive ECS (Electrochemical Society) summer fellowship (US\$5000) for 2009. Only five candidates are chosen worldwide. He was recommended jointly by his supervisors, Prof Hua Kun LIU and Dr. Jiazhao Wang and his summer fellowship host, distinguished Professor Jeff Dohn, Dalhousie University Canada. ECS is a huge society covering many disciplines in chemistry, materials, engineering and solid state science .



Last year former PhD student Sau Yen Chew (supervisors: Prof Hua kun Liu and Dr Jiazhao Wang) received this award hosted by Prof P Novak at PSI Switzerland.

## UOW RESEARCHERS AT SCIENCE AT THE SHINE DOME

A Research Fellow with the Intelligent Polymer Research Institute (IPRI), **Dr Joe Razal**, was one of only six Australian Postdoctoral Fellowship holders in the country selected by the Australian Research Council to participate in a special event recently at Canberra's Science at the Shine Dome.



Dr Razal received an ARC Early Researchers Award and also participated in the early Career Researchers' Program as part of Science at the Shine Dome 2009.

Science at the Shine Dome is an annual three-day event conducted by the Australian Academy of Science. It provides an opportunity for young scientists to hear about the research findings of colleagues across a wide range of disciplines and to mix with Academy Fellows, symposium speakers and science teachers as well as their peers. It also allows the young scientists to participate in career development workshops. Also at the Early Career Research Program was **Dr Solomon Buckman**, Geology Lecturer in the School of Earth and Environmental Sciences.

**Dr Razal is pictured here with President of the Australian Academy of Science, Professor Kurt Lambeck (left) and the CEO of the Australian Research Council, Professor Margaret Sheil.**

## BIONICS COMPETITION FOR HIGH SCHOOLS



Are you a student in Year 8-11 and have an opinion about the future of Science and Bionics? Well, the "Bionics for 2020 Competition" is for you! Let us know what you would develop and why and you could win great prizes and the opportunity to meet world-leading researchers in their laboratories at the Intelligent Polymer Research Institute, based at the University of Wollongong's high tech Innovation Campus.

Plus you'll be presented with your prize by world-renowned scientist Professor Graeme Clark, inventor of the cochlear ear implant and a Chief Investigator with ACES.

It's simple, all you need to do is tell us "what new Bionic parts you would develop for humans, why and how" and submit this along with an Entry Form to the "Bionics for 2020 Competition". Write an essay, develop a poster or create a design. Entries should be limited to three A4 pages (or equivalent).

Enjoy yourself and get creative! More at: <http://www.electromaterials.edu.au/Resources/Bionicsfor2020.html>

**Would you like to learn more about the IPRI and ACES? Visit [www.electromaterials.edu.au](http://www.electromaterials.edu.au)**



## UAE establishes National Research Foundation

The National Research Foundation (NRF) is a Ministry of Higher Education & Scientific Research initiative that helps promote research activity in private and public universities, colleges, centres, institutes and companies, by individuals or teams of researchers in UAE. NRF has been established to provide research leadership in the country and to provide funding support on a competitive basis to researchers in the country.

The NRF has recently completed its evaluation of Expressions of Interest submitted in the 2009 round of competitive grants funding. Of just over 600 expressions of interest, only 179 have made it through to the final round – 29.5% of the total. UOWD academic staff submitted 16 expressions of interest. Six of these have been invited to submit full proposals in the final round.

The six short-listed expressions of interest were submitted by the following:

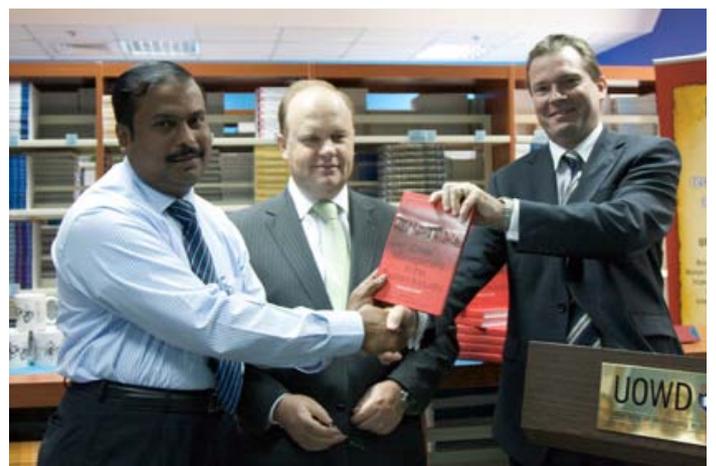
- **Dr Peter Hosie**, Associate Professor, Faculty of Business and Management  
“Identification and verification of predictors of international managers’ performance”

- **Dr Payyazhi Jayashree**, Assistant Professor Faculty of Business and Management with Dr Peter Hosie and Dr Michael Thorpe, Associate Professor, Faculty of Finance and Accounting  
“Is the level of wealth related to an individual’s happiness? Indicators of Gross National Happiness in the United Arab Emirates”
- **Dr Jawahitha Sarabdeen**, Assistant Professor, Faculty of Business and Management with Dr Gwendolyn Rodrigues, Assistant Professor, Faculty of Finance & Accounting  
“User Adoption of E-government in UAE”
- **Dr Catherine Todd**, Assistant Professor, Faculty of Computer Science and Engineering  
“Virtual Manipulation and Force Sensing during Inner Ear Surgery for Clinical Application”
- **Dr Kamal Jaafar**, Assistant Professor, Faculty of Computer Science and Engineering  
“New Design Approach for Safer and Economical Structures in Seismic Regions”
- **Professor Rob Whelan**, President UOWD  
“Rapid habitat conversion in Dubai: quantifying effects on avifauna and predicting future changes”

## NSW Premier launches book co-edited by UOWD academic

**Dr Peter Hosie’s** book (featured in our last issue) entitled “Crisis Management in the Tourism Industry: Beating the Odds?” was officially launched last month, by the Premier of New South Wales, Australia, the **Rt. Hon. Nathan Rees** during a visit to Knowledge Village in Dubai (last April). The book is co-edited by Dr. Peter Hosie, Associate Professor in Management at UOWD and Dr. Christof Pforr, Associate Professor in Tourism Management, Curtin University of Technology, Perth, Australia.

Present on the occasion were Jeremy Bruer, Australian Ambassador to the UAE, members of his team and senior officials of UOWD.



# CONFERENCES & WORKSHOPS

## UPCOMING CAPSTRANS WORKSHOPS:

### Asia-Pacific Transculturalisms: New Theoretical Perspectives

Monday-Tuesday 8-9 June

A two-day workshop being held in the Faculty of Arts on 8-9 June, 'Asia Pacific Transculturalisms: New Theoretical Perspectives', will have as keynote speakers three internationally prominent scholars, Professor Sneja Gunew (University of British Columbia), Professor Robbie Goh (National University of Singapore), and Professor Vijay Mishra (Murdoch University).

With the support of CAPSTRANS and APFRN (Asia Pacific Futures Research Network), postgraduate and early career researchers working in the field of cultural analysis involving Asia Pacific cross-cultural relations will participate as panelists and discussants.

Three are from the University of Wollongong and 14 from Canberra, Melbourne, Sydney, and Perth.

### Capital in Crisis: Implications for Labour and Society...call for papers

July 9-10, University of Wollongong

This workshop is for all those engaged in critical and emancipatory scholarship in political economy and the social sciences. It is seeking theoretical and empirical papers, particularly those relevant to the labour and other progressive movements that examine the regional, national and international transformations of capitalism and capitalist societies, particularly in light of the Global Financial Crisis.

A session will consider ways of developing the work of the Australian Political Economy Movement, and a master class will be held for postgraduate students.

Deadline: 200 word abstracts must be submitted by 2 June 2009 to [hmasterman-smith@csu.edu.au](mailto:hmasterman-smith@csu.edu.au).

Abstracts already received need not be re-submitted.

Publication of selected papers in a peer-reviewed special journal edition is under negotiation. Attendance is free.

### Gender and occupations and interventions in the Asia Pacific, 1945-2009

Proposals due: Friday 17 July

Military occupations and interventions, increasingly common in regions of the Asia Pacific, have a gendered impact on both those engaged in occupying or intervening, and those whose lands have been occupied.

Yet little is known about this gendered impact, in terms of both masculinities and femininities, either historically or in more contemporary times.

The workshop will bring together for the first time established scholars, ECRs, postgraduates and community members and activists to discuss issues related to gender, occupation and intervention.

The renowned activist on issues related to women and the military, Takazato Suzuyo, of the group Okinawa Women Act Against Military Violence, will be a keynote speaker, and scholar of the Japanese 'war brides' in Australia, Keiko Tamura, will also contribute.

The full Call for Papers is available at: <http://www.capstrans.edu.au/resources/conferences/2009/gender-occupation-workshop.html>

Further information: Rowena Ward [roward@uow.edu.au](mailto:roward@uow.edu.au) or Christine de Matos [cdm@uow.edu.au](mailto:cdm@uow.edu.au)



## Organising a conference or workshop?

Why not provide your delegates with copies of the University's "Profiling our Research Partners". This publication is a snapshot of many of our national and international research collaborations and showcases some of the very interesting projects. We have many copies available – just e-mail us ([vwallace@uow.edu.au](mailto:vwallace@uow.edu.au)) with your request.

## Contributions

Contributions to **Research & Innovation News** (Research news, achievements and events) are always welcome.

For inclusions in the next issue, (due for publication in late July), please e-mail details to [taniav@uow.edu.au](mailto:taniav@uow.edu.au) or [vwallace@uow.edu.au](mailto:vwallace@uow.edu.au) by 10th July.

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New research staff are encouraged to introduce themselves to the UOW community - send a short bio to [taniav@uow.edu.au](mailto:taniav@uow.edu.au) or [vwallace@uow.edu.au](mailto:vwallace@uow.edu.au) by 10th July.