

ISSUE 1, JAN-FEB 2010

RESEARCH & INNOVATION NEWS

www.uow.edu.au/research/newsletter

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Zenobia Jacobs wins Sir Nicholas Shackleton medal



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Executive Director, Prof. Elim Papadakis of the National Health and Medical Research Council visits UOW

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 March), please e-mail details to taniav@uow.edu.au or vwallace@uow.edu.au by 19th March.

ERA @UOW

2010 ERA Submission

The 2010 ERA Documentation has been released including the ERA Submission Guidelines, Discipline Matrix consisting of indicators used for each Discipline at the 4-digit Field of Research (FoR) code, and Ranked Outlets (ranked journal and conference lists). All Documents are available on the ARCs web site at http://www.arc.gov.au/era/key_docs10.htm

What's New in ERA for 2010

- Listed Conferences including rank and FoR codes - ranked and unranked conferences are included in ERA (see Discipline Matrix);
- Esteem indicators: editor of prestigious work of reference, fellowship of a learned academy, membership of a Statutory Committee or AIATSIS, recipient of a nationally-competitive fellowship, an Australia Council Grant or Australian Council Fellowship - inclusion of one or more esteem indicators are based on Discipline;
- Applied Measures, namely NHMRC endorsed Guidelines for Cluster 8 - Public and Allied Health;
- Apportionments of FoR codes for each research output, whilst in RIS, journals may require a review due to the Ranked List FoR assignment.

Involvement from eligible researchers will be sought only if necessary for specific data collection tasks between January and April 2010. Submission for ERA will be from 1 June 2010. A timeline and a set of data collection activities is available at <https://intranet.uow.edu.au/raid/era/index.html>

2009 Trial Outcome Report

The Outcome Reports for the Trials provided valuable information on Australian benchmarks and UOW's standing against those at the 2-digit and 4-digit FoR code, as well as observations made by the Research Evaluation Committee Members. These will assist the ERA Steering Committee in preparing the UOW data for submission. The reports were distributed to the Deans and FRC of Faculties with major involvement during the Trial. An Example of the report is available at

<https://intranet.uow.edu.au/raid/era/index.html#Trialoutcomes>

Further information on ERA is available <https://intranet.uow.edu.au/raid/era/> or by contacting Claudia Perry-Beltrame, ERA Project Manager on email: claudiac@uow.edu.au or ph: 4221 4321



NEW STAFF AT RSO

Welcome to Danielle Annese, who joined the RSO as Grants Officer in November. Danielle returns to UOW after working as a Technical Officer in the Faculty of Science between 2001 and 2006. More recently, Danielle spent three years in Sydney working as a Program Manager for Humane Society International, an international

conservation organisation, where among other things she was involved in advising applicants and administering grants for environmental programs. Danielle is the principal grant contact for Science and Law.



Ann Hollifield joins the Research Services Office as the Research Officer for Excellence in Research Australia (ERA), assisting Claudia Perry-Beltrame with UOW's ERA submission. She is newly arrived from Edmonton, Canada and joins her husband, Patrick McGivern, a new lecturer in the Arts faculty. Ann can be contacted at 4221 4901 or ahollifi@uow.edu.au.

RESEARCH ETHICS

ETHICS Agenda Deadlines and Meeting Dates for your diary

Human Research Ethics Committee (HREC) Health and Medical

Upcoming meeting on 9th March (agenda deadline February 17th)

Next meeting April 13th (agenda deadline March 24th)

Future meeting May 11th (agenda deadline April 21st)

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

Upcoming meeting on 18th March (agenda deadline March 3rd)

Next meeting April 15th (agenda deadline March 31st)

Future meeting May 20th (agenda deadline May 5th)

Animal Ethics Committee

Upcoming meeting on April 1st (agenda deadline March 11th)

Next meeting May 13th (agenda deadline April 22nd)

Future meeting 17th June (agenda deadline May 27th)

Gene Technology Review Committee

Upcoming meeting April 3rd (agenda deadline February 18th)

Next meeting June 3rd (agenda deadline May 20th)

More information at: www.uow.edu.au/research/rso/ethics/



Do you know anyone who would like to receive Research & Innovation News?

Please send their email to taniav@uow.edu.au or vwallace@uow.edu.au

UPCOMING GRANT OUTCOMES & OPPORTUNITIES

Upcoming Grant Opportunities

Date	Activity
Wednesday, 3 March, 2010	ARC Discovery Project applications due to the ARC
Wednesday, 17 March, 2010	NHMRC Project Grant applications due to the NHMRC
Thursday, 18 March 2010	Leadership for Excellence in Learning and Teaching Program Grants due to ALTC
Wednesday, 31 March 2010	NHMRC Career Development Award applications due to the NHMRC
Friday, 9 April 2010	ALTC Priority Projects Program internal deadline
Wednesday, 21 April 2010	ARC Future Fellowships applications due to the ARC
Friday, 30 April 2010	NHMRC Partnerships Projects
Monday, 24 May 2010	URC Research Partnerships Scheme

FUNDING SUCCESS

Funding Success for UOW Health and Medical Researchers

NHMRC Development Grants

UOW achieved a 40% success rate, receiving 2 of only 19 Development Grants awarded nationally. These grants are highly competitive, with UOW applicants competing with researchers from Medical Institutes and universities with established Medical Schools.

Congratulations to the following successful applicants:

Prof Anatoly Rozenfeld, Dr Michael Lerch, and Dr Marco Petasecca from the Faculty of Engineering were awarded \$523,500 over 3 years for the project titled 'BrachyVision: A multipurpose probe for in-body radiation imaging and dosimetry.'

Prof Mark Walker from the Faculty of Science was awarded \$483,600 over 3 years for his project titled 'Preclinical studies of group A streptococcal (GAS) vaccine candidates.'

Department of Health and Ageing

Prof Jan Potter (IHMRI), **A/Prof Brin Grenyer** (HBS/IHMRI) and **Prof Nagesh Pai** (GSM/IHMRI) received \$545,461 in funding over 18 months under the Local Palliative Care Grants Program for the project: REACH out in Dementia-Recognise End-of-life and Care Holistically. Prof Potter's team will collaborate with a number of colleagues from the SESIAHS, the Illawarra and Shoalhaven Divisions of General Practice and representatives from Residential Aged Care Facilities.

Heart Foundation

Dr Dylan Cliff from the Faculty of Education was awarded a 2 year Postdoctoral Fellowship for his project: Relationships between physical activity, sedentary behaviour, and cardiovascular disease and diabetes risk factors among overweight and obese children.

Heart Foundation Grant-in-Aid funding of \$125,635 over 2 years was also received by A/Prof Tony Okely, Dr Dylan Cliff and Dr Rachel Jones, from the Faculty of Education, for the project: Validity of energy expenditure equations in pre-school children: a whole body calorimeter study.

National Breast Cancer Foundation

Prof Julie Steele, Dr Bridget Munro and Prof Sandra Jones from the Faculty of Health and Behavioural Sciences received funding of \$260,750 over 2 years for the project: Building better bras for women living with a diagnosis of breast cancer.

SUCCESS IN ARC LINKAGE INFRASTRUCTURE AND EQUIPMENT (LIEF) GRANTS

The University received \$1,050,000 for two research projects with UOW as the lead institution. This represents a success rate of 50%, compared with the national average of 42%. UOW was also involved in 11 other successful collaborative LIEF projects.

Congratulations to the following research teams:

- A/Prof J Beck, Dr S Blanksby, Dr J Aquilina, Prof M Walker, Prof M Banwell, Dr M McLeod, Prof M Humphrey, A/Prof P Keller, Dr T Mitchell, Dr H Ecroyd, Prof S Pyne, Prof N Dixon, Prof X Huang, Dr M Higgins, Prof D Officer, Prof M Wilson, Dr M Kelso, Prof L Mander, A/Prof M Sherburn, Prof C Easton, Prof D Ollis. Project Title: Regional Facility for Molecular Characterisation and Mapping (\$450,000).
- Prof SX Dou, Dr G Peleckis, Prof A Rozenfeld, A/Prof G Alici, Prof M Walker, Dr R Zheng, Prof S Ringer, Dr S Li, A/Prof I Low, A/Prof M Jacob, Prof E Pereloma, Dr M in het Panhuis, Prof R Lewis, A/Prof A Pan, Prof Dr X Wang, Prof G Wallace, Prof H Liu, Prof M Gu, Prof J Nowotny, Prof C Stampfl, A/Prof R Ramer, Prof Y Chen, Prof R Stamps, Dr S Kennedy, Dr F Klose, Dr S Smith. Project Title: Combined scanning tunnelling microscope system for materials characterisation and manipulation at nano scale (\$600,000).

URC STRATEGIC RESEARCH INITIATIVES

The URC recently awarded funding for the next 3 years to support the development of the research capability of groups within the University, to help them evolve into URC Research Strengths.

Congratulations to the following Strategic Research Initiatives:

- Australian Centre for Cultural Environmental Research (AUSCCER) - Director Prof. L. Head
- Centre for Geotechnics and Railway Engineering - Director Prof. B. Indraratna
- Centre for Translational Neuroscience (CTN) - Director Prof. X.F. Huang
- Shoalhaven Marine and Freshwater Centre (SMFC) - Dr. Pia Winberg
- Smart Foods and Public Health - Prof. L. Tapsell

Further information on these Strategic Research Initiatives is available at: <http://www.uow.edu.au/research/strengths/index.html>

2009 URC RESEARCH PARTNERSHIP SCHEME OUTCOMES

A total of ten URC Research Partnership Grants were awarded in Rounds 1 and 2 in 2009 with funding of \$114,360. Full details of applications funded during 2009 are available at: <https://intranet.uow.edu.au/raid/rso/urc-outcomes/UOW022079.html>

The guidelines for the Research Partnership Scheme for 2010 have been revised and are now available on the Intranet:

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

Please note that there will be two rounds in 2010 with closing dates on 24 May and 25 October.

UNI IN THE BREWERY 2010

We hope you can come along and enjoy a beer or wine at the Five Island Brewery, while listening to presentations about some interesting UOW research. All staff, students and the general public are welcome and encouraged to contribute in discussion.

Date	Speaker
17th March 5:30pm-6:30pm	Greg Rose (Law) A black hole in international law: transnationally networked armed conflict
26th May 5:30pm-6:30pm	Jason Wilson (Arts) Social Media – Future of Journalism
25th August 5:30pm-6:30pm	Sandra Jones (Health & Behavioural Sciences) Everything I need to know about my health is on TV - but most of it is wrong
13th October 5:30pm-6:30pm	Mary Kaidonis and Brian Andrew (Commerce) Financial implications of the Carbon Pollution Reduction Scheme

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

*Please check for any program changes.

NOT TO BE MISSED!

ARC COLLEGE OF EXPERT MEMBERS

Congratulations to A/Prof Jacqui Ramagge from the School of Mathematics and Applied Statistics and A/Prof Jenny Beck from the School of Chemistry who have been appointed to the ARC's College of Expert panel.

UOW now has four College of Expert members:

- Prof Chao Zhang - Physics, Chemistry and Earth Sciences (PCE)
- Prof Salim Bouzardoum - Mathematics, Information and Communication Sciences (MIC)
- A/Prof Jacqui Ramagge - Mathematics, Information and Communication Sciences (MIC)
- A/Prof Jenny Beck - Physics, Chemistry and Earth Sciences (PCE)

RESEARCH SHOWCASE SERIES 2010

This URC lecture series will provide an opportunity to showcase some of the leading research conducted by the UOW's, and introduce the researchers involved to the general campus and community.

Date	Speaker
Wednesday 24th March	Prof. Peter Eklund Information Systems and Technology (SISAT)

MORE PRESENTATIONS TO BE ANNOUNCED

Schedule updates at:

<http://www.uow.edu.au/research/news/>

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

Sandwiches will also be available for those attending.

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Join us for news and information from the Research & Innovation Division (RAID). Search for UOW Research

For any further Research enquiries please contact the Research Services Office on 42213386

VICE-CHANCELLOR'S AWARD FOR EXCELLENCE IN RESEARCH SUPERVISION

Nominations Open

The Vice-Chancellor of the University of Wollongong invites present and past postgraduate research students to nominate their academic supervisors for the '2010 Supervisor of the Year Award'.

Is This Your Supervisor?

- Is your supervisor enthusiastic about your research?
- Does your supervisor assist you to acquire additional skills and knowledge relevant to your research?
- Are you included in the academic life of the department through the actions of your supervisor?
- Is your supervisor responsive to your particular needs (eg. If you are working, a part-time student, a parent, different cultural background)?
- Is your supervisor open to communication at times other than those formally specified?
- Do you feel that your supervisor is supportive at all times (the good and the bad days along the rocky road of research)?
- Does your supervisor meet with you on a regular basis at a mutually convenient time?
- Does your supervisor consider his/her research students as colleagues in the research effort?

If you have responded positively to all of the above, you have one outstanding supervisor on your hands! Please don't keep this knowledge to yourself, but share it with all higher degree research students and staff by nominating your supervisor for the Vice-Chancellor's Award for Excellence in Research Supervision. It's the least you can do!

You can access the Guidelines and Nomination Form at the following website:

<http://www.uow.edu.au/research/uowawards/index.html>

or collect one from the Research Student Centre, Ground Floor, Building 20.

The winner will receive a certificate and cash prize of \$4,000 to be presented at the Vice-Chancellor's Awards Ceremony in June 2010.

The closing date for nomination forms is Monday, 8th March 2010.

If you have any questions please contact me by: email: mdwarte@uow.edu.au or on extension 5454.

THREE MINUTE THESIS COMPETITION



The Three Minute Thesis Competition will be held on 2 September 2010. It will be an exercise in developing academic and research communication skills in our Higher Degree Research Students (PhD and Masters Research). The HDR students will have three minutes to present a compelling oration on their thesis topic and its significance

in language appropriate to an intelligent but non-specialist audience. It will not be an exercise in trivialising research, but should engage the audience without reducing research to

entertainment value alone.

Some of the benefits:

- Competitors commonly report the experience helped them 'crystallize' thoughts about their thesis and how they communicate their research;
- Internal and external promotion of the value of PhD and Masters Research;
- Can be mapped onto PhD and Masters Research progress/skills development;
- It's a lot of fun and generates public and media interest in what researchers do;
- Great opportunity to network and information sharing
- Opportunity to show our HDR students support in their research

The UOW winner will compete in the National/Trans-Tasman



competition to be held in Queensland on 22 September 2010. Great prizes to be won. More details coming soon. Contact person Mari Dwarte - mdwarte@uow.edu.au

HDR STUDENT ORIENTATION AND ENROLMENT DAY

The compulsory autumn session Higher Degree Research (HDR) Student Orientation and Enrolment Day for HDR students will be held from 9.00am on Tuesday, 23rd February 2010. If you have any questions about this event please contact Mari Dwarte, HDR Events Officer in the Research Student Centre on (02) 4221 5454, mdwarte@uow.edu.au. A registration form can also be downloaded from <http://www.uow.edu.au/research/rsc/news/orientation/index.html>

HDR STUDENT ENROLMENT CHECKING FOR 2010

1. Students who have a new offer for a Higher Degree Research (HDR) degree and have not received notification regarding enrolment please contact the Research Student Centre 42215453 or contact June Toussis (junet@uow.edu.au). Once enrolled students must ensure that their enrolment is correct for Autumn and Spring Sessions for example - part time, full time, or coursework subjects.

Re-enrolling

2. Autumn Session and Spring Session Enrolment Variations and re-enrolment for 2010 have begun and all HDR students are asked to check their enrolment details are correct. Please send any variations (leave of absence, change of status etc) are sent to the Enrolment Officer, June Toussis (junet@uow.edu.au or 42215453), by the 31st March 2010.

3. Note for continuing students - Re-enrolling students will be automatically re-enrolled on receipt of a successful completed APR.

RESEARCH TRAINING SEMINARS FOR HDR STUDENTS

Are you a new or re-enrolling research student who would like to get some extra training in different aspects of research? The Higher Degree Research (HDR) Student Seminar Series is a free of charge program specifically designed for HDR Students. Seminars are separated into modules so that you can easily identify the seminars that will suit you based on what stage you are at in your candidature.

Some of the Seminars to be presented this session include: Endnote, Thesis Writing, Your Gateway to Research at UOW, Your Rights and Responsibilities to Your Research, Thesis Submission and Examination. Seminars will commence in the week of 9th March 2010. An email advising of the program will be sent to all HDR students in February.

SUBMITTING YOUR THESIS FOR EXAMINATION SOON?

To avoid enrolment for Autumn Session 2010 Higher Degree Research students must submit their thesis by 31 March 2010. If you submit your thesis after this date, you must enrol for Autumn session, and pay the appropriate tuition fee if you are an International student. Please note that you must be enrolled at the time of submission. For further information, please contact Julie King, Thesis Officer in the Research Student Centre, on (02) 4221 3208 or jkking@uow.edu.au.

APR'S ARE NOW OVERDUE

The 2010 Annual Progress Reports (APR) were released to HDR students in October 2009. The APR process for Higher Degree Research (HDR) students is via SOLS. Supervisors are asked to complete their students APR as a matter of urgency. HDR candidates will NOT be automatically enrolled for 2010 unless a completed APR is received.

COMMERCIAL RESEARCH & INNOVATION

www.uow.edu.au/research/commercial

COMMERCIAL RESEARCH UNIT & COMMERCIALISATION HUB

P +61 2 4221 4486
F +61 2 4221 5267
W www.uow.edu.au/research/commercial
A Level 2 Building 20, Northfields Ave Wollongong NSW 2522



A MESSAGE FROM DR TROY COYLE, DIRECTOR OF COMMERCIAL RESEARCH

"Last year was a hugely successful year for commercial research activity at UOW. Income from commercial research projects increased by 36% from 2008 income and for the first time we exceeded the \$20 million threshold. This represents almost

40% of the total research income for UOW.

"The Faculty of Engineering had its most successful year for commercial research, with the establishment of the SMART Rail Institute, with support from the NSW Government, via RailCorp. The Centre for Health Services Development also continues its successes in commercial research. The Faculty of Commerce has implemented internal support structures that are likely to show dividends in commercial research participation in 2010. As per previous years, we hope that this year again brings a project to UOW that beats the record for the largest project ever- now we have a very strong benchmark with the SMART Rail Institute.

"CRU has also just sent out Customer Service Surveys to all of its internal clients (UOW researchers) who participated in commercial research activities in 2009. We will collate the responses and use the feedback to determine strategies for further improvement. Already we can see a pattern of improved satisfaction with contract turnaround times when the UOW Fast-Track process is used.

"We look forward to another successful year at UOW."

UOW GAINS STRONG IP POSITION RELATING TO HYDROGEN PRODUCTION

UOW has obtained granted patent status in Australia and has received a Notice of Entitlement from the US Patent Office in relation to novel hydrogen production (titled "Novel catalysts and processes for their preparation"), which can be packaged with complementary IP to develop efficient water splitting technology. The inventors are researchers: **Gordon Wallace, Jun Chen, Chee Too and Gerard Swiegers.**

The Core Technology

The core technology comprises separate but complimentary innovations developed via collaborations between the University of Wollongong and CSIRO, and Princeton University, Monash University and CSIRO. These innovations have now been packaged together to provide an efficient method of splitting water into its component parts using only sunlight. Broadly, the technologies involve the use of novel catalytic processes that enhance the efficient production of certain molecules of interest through assisted (i.e. catalysed) chemical reactions.

The first technology uses a highly efficient chemical process, via novel electrocatalysts, to reduce water into hydrogen gas (i.e. splitting of water to form hydrogen) under sunlight. The process has been shown to be more efficient than the best man-made alternative to date. This is the IP that UOW has recently obtained patent protection of.

The second technology mimics the water-oxidising centre in photosynthesis to produce oxygen gas from water (i.e. splitting of water to form oxygen) under sunlight. Fully functional mimicry of this type has not previously been achieved.

Put together, these technologies offer a highly efficient process

for splitting of water into its component parts, hydrogen and oxygen, and also the reverse process- i.e. the production of an electrical current from the combination of the elemental hydrogen and oxygen to form water. The combination of these technologies offers a means of efficiently creating hydrogen gas (as a fuel) and then converting it into a powerful electric current via its use in a H₂/O₂ fuel cell.

The water-splitting application has been demonstrated in simple “proof of concept” devices within the laboratory. The research teams are currently performing studies to obtain efficiency data and are working towards engineering a prototype device. The ultimate aim is to develop commercial devices able to spontaneously convert water into hydrogen and oxygen under sunlight.

Advantages

Hydrogen as a Fuel

Hydrogen offers an important and viable alternative fuel that could potentially displace fossil fuels like oil and coal in the modern-day economy. The novel catalysts process makes a giant leap forward in the cheap and efficient production of hydrogen. Such a possibility offers significant impact in terms of reducing greenhouse gas emissions by reducing CO₂ emissions from fossil fuel use. An efficient process would also have huge commercial benefits, given that this would be a renewable and low cost fuel option.

H₂/O₂ Fuel Cells

H₂/O₂ fuel cells are extremely efficient (typically capturing 70% of the available energy vs 30% in a traditional internal combustion engine). They are also non-polluting. In addition, these cells can be made small enough to replace internal combustion engines in automobiles.

Commercialisation

UOW is currently seeking funds to further develop this technology past laboratory-scale proof-of-concept.

PROFILE - UOW COMMERCIAL RESEARCHER



Lance Barrie – Research Officer, Centre for Health Initiatives

The Centre for Health Initiatives (CHI) is identified as a ‘Research Strength’ of the Faculty of Health and Behavioural Sciences, University of Wollongong. CHI brings together an array of strengths in health program evaluation and formative research from a range of relevant health disciplines includ-

ing: the Schools of Nursing, Midwifery & Indigenous Health; Psychology; Health Sciences; and the Graduate School of Medicine. As a cross-disciplinary unit, CHI has the advantage of drawing on methods, evidence and expertise from across the disciplines and is uniquely placed to provide reviews and evaluations across a broad range of health service programs.

Lance is currently involved in a number of commercial projects including:

- Evaluation of the Youth Beyond Blue poster campaign
- Evaluation of City of Greater Dandenong Public Drinking Campaign
- Older patients attitudes to General Practice Registrars

- An exploratory Study investigating GP registrar attitudes regarding the usefulness of medical online communities
- Lance has more recently taken on the task of coordinating CHI's tender application process and in recent weeks has submitted Dept of Health and Ageing tenders for:
 - The Services of Program Reviews and Evaluations
 - Web Based Primary Health Care Resource
 - Panel of Providers of Health Services Evaluation

If you need any information on tendering opportunities potential Industry partners or the process of tendering please contact Brett Weeden on x3913 or bweeden@uow.edu.au

CONTRACT RESEARCH PROJECT FUNDED BY THE AUSTRALIAN DEPARTMENT OF IMMIGRATION AND CITIZENSHIP AND PUBLISHED IN THE MEDICAL JOURNAL OF AUSTRALIA



Janette Green, Senior Research Fellow at the Centre for Health Service Development (CHSD)

Janette's area of expertise is applied statistics. Within CHSD she plays an important role in providing expert statistical analysis on projects, primarily in classification development, benchmarking and outcome measurement. She has applied her statistical skills to a wide range of areas in the health

sector, including rehabilitation, mental health and palliative care. Recently, Janette was the lead author in an article on the largest study to date on the health of people in Australian immigration detention centres. The study was a contract research project funded by the Australian Department of Immigration and Citizenship and was published in the Medical Journal of Australia in January 2010 where it has attracted significant media and professional attention. The study found that asylum seekers developed more health problems than other people in detention and those detained for more than two years had particularly poor mental and physical health. The study provides evidence to support what people working in immigration detention centres have known for a long time – that asylum seekers are damaged by detention both physically and psychologically. The results reinforce the view of the 2010 Australian of the Year, Professor Patrick McGorry who is calling for an end to immigration detention centres which he describes as “factories for producing mental illness and mental disorder” (Australian Network News 26 Jan 2010). The study calls for Government policies to consider the evidence in assessing the impact of detention on detainees and in particular asylum seekers. It highlights the very real issue that if asylum seekers become refugees and are integrated into the community, why reduce the mental and physical health of an already traumatised and marginalised group and expect them to become functioning members of society? If you want to view the study in full, you can access it using the following link: http://www.mja.com.au/public/issues/192_02_180110/gre10973_fm.html.

MANAGERS OF INNOVATION & COMMERCIALISATION

www.uow.edu.au/research/commercial/comcontact



RESEARCH COMMERCIALISATION WORKSHOPS

<http://www.uow.edu.au/research/workshops/>

Discover how your inventions, ideas and expertise could achieve real impact on a global level through commercialisation. Learn how the parallel pathways of Intellectual Property protection and dissemination can advance your profile and objectives in both research commercialisation and publishing at UoW.

UniQuest is one of Australia's leading technology transfer organisations, collaborating with UOW to generate benefits for researchers, the university and the wider community. Drawing on the extensive expertise within its ranks and among its associates, UniQuest's workshops offer an intensive grounding in the processes, practices, pitfalls and potential rewards of commercialising research across all academic disciplines.

Informative and insightful speakers' presentations are complemented by creative group sessions, preparing teams to apply their new-found knowledge and pitch their innovative ideas to an experienced panel of commercialisation professionals.

When:

- Higher Degree Research Students: 18-19 March 2010 (Includes a special session on career development. HDR students from all UOW faculties are welcome to apply. Applications close on Friday 12 February 2010).
- Academic Researchers' Workshop: 14-15 April 2010 (All UoW academic staff active in research are invited to apply. Applications close on Friday 12 March 2010).
- Venue: Palm Meadows Radisson Resort, Carrara, QLD
- Application/Registration: A limited number of fully and partially subsidised places are available (conditions apply - see UniQuest website for details). Applications will be treated as an Expression of Interest, with places offered within three weeks of the application. Apply online at www.uniquest.com.au/workshop
- For more information contact your Manager of Innovation and Commercialisation



NEW MIC

Mr Deon de Saldanha
(MIC for Engineering, Law and Commerce)
Ph: (02) 4221 4470
E-mail: deon@uow.edu.au

NEW RESEARCH STAFF

Are you a new
research staff
member
at UOW?

We want to hear
from you...



Dr Carol Farbotko

I joined the Australian Centre for Cultural Environmental Research in August 2009. I am working with Associate Professor Gordon Waitt, Professor Lesley Head, Associate Professor Chris Gibson and Dr Nick Gill on an ARC Discovery Project 'Making less space for carbon: cultural research for climate change adaptation and mitigation'. I am conducting ethnographic research with Illawarra households, seeking to understand

issues associated with climate change engagement in daily life.

I am a human geographer with interests in relationships between people and their environments, particularly in the context of climate change. These interests have included projects analyzing discourses and perceptions of climate change in a range of settings, such as in the media, in museums, and among communities affected by sea-level rise. I was previously employed at the University of Western Sydney.

PUBLICATIONS COLLECTION AND HERDC

The annual Higher Education Research Data Collection (HERDC) publications collection is now underway. This data is reported to, and used by, the Department of Innovation, Industry, Science and Research (DIISR) for determining the amount of Research Block Grants allocated to UOW.



To have your 2009 publications count as part of the UOW collection of research publications data, the details must be entered into RIS and the status of the RIS record changed from "New" to "Seeking Faculty Verification". You need to provide a copy of the publication and verification material to your faculty's publications officer. Alternatively, you can now upload your publication and verification material directly into RIS. Go to the File Uploads tab within the Publication Details in RIS to upload your material for HERDC.

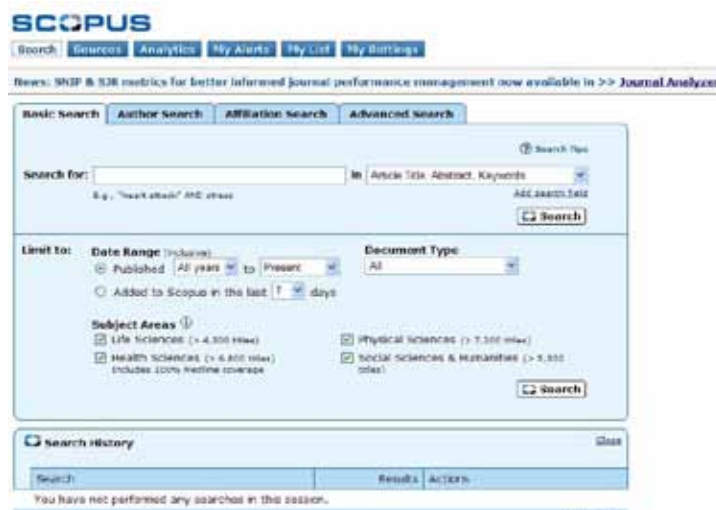
The deadline for getting 2009 publications to your faculty publications officer is Friday 23 April 2010.

SCOPUS

The Library is pleased to announce that the key research database, Scopus, is now available for UOW staff and students. Scopus is the largest citation and abstract database of international peer-reviewed literature (coverage in scientific, technical, medical and social sciences literature as well as arts and humanities), and quality web sources, including patents. Advanced research features include tracking and analysis tools for identifying cited references, authors and publications.

Scopus has been selected as the sole citation provider by the Australian Research Council (ARC) for the Excellence in Research for Australia (ERA) initiative. Funding for Scopus, which has been licensed as part of a Universities Australia national purchasing arrangement, has been generously provided by the Vice-Chancellor.

Access is available via the Databases section of the Library's website - <http://www.library.uow.edu.au/databases/index.html>



SCHOLARSHIPS

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

UOW HIGHER DEGREE RESEARCH (HDR) SCHOLARSHIP OPPORTUNITIES

UPA and APA

The Dean of Research is introducing a new initiative calling for UPA and APA scholarships twice per year. The next round, for scholarships commencing in Spring 2010, will close on 12 March 2010. Applications for the new HDR equity scholarships, for Indigenous Australians and for females in non-traditional areas (Engineering and ICT) and HDR scholarships to support the new SMART Infrastructure Facility, will also be considered in this round.

Applications for HDR scholarships to commence in the Spring session close on 12 March 2010. Information regarding the application process can be found at: <http://www.uow.edu.au/research/rsc/prospective/index.html>



FOR MORE INFORMATION...

CLICK ON THE SCHOLARSHIPS
BUTTON ON OUR HOME PAGE

<http://www.uow.edu.au/research/index.html>

DOMESTIC & INTERNATIONAL
SCHOLARSHIPS AVAILABLE

VICE CHANCELLORS AWARDS

This group of awards recognises the contributions that academic staff and their partners are making towards research excellence. The categories are:

- **Research Excellence for Senior Researchers**
- **Research Excellence for Emerging Researchers**
- **Research Excellence for an Interdisciplinary Team**
- **Outstanding Achievement in Research Partnership**
- **Excellence in Research Supervision**

Guidelines and nominations forms will be available at: <http://www.uow.edu.au/research/awards/index.html>

Nominations close 19th March for all awards with the exception of the Excellence in Research Supervision Award (closes 8th March).

Guidelines and Nomination forms can be found online: <http://www.uow.edu.au/research/uowawards/index.html>

RESEARCH EXCELLENCE



RESEARCH NETWORK DRAWS STRONG RESPONSE

Following the launch of the Illawarra Health and Medical Research Institute (IHMRI) Research Network in December 2009, the region's health and medical community has responded strongly with more than 280 people registering for membership.

The Network has been set to facilitate collaboration and coordination of health and medical research conducted

across multiple organizations and is akin to a professional association. Membership (which is free) offers a range of benefits including participation in IHMRI research theme groups, quarterly networking events and seminars, regular research updates and access to research-specific online resources.

IHMRI Executive Director Prof. Don Iverson explained his vision for the Network at the launch saying, "We already have world-class research going on in and around Wollongong, but we want to expand this through fostering new collaborations between academic researchers, clinicians and other health professionals. Our hope for IHMRI is that it will help bring people together who, by combining their skill sets, will be able to achieve much more together than they could apart."

Those signing up for the Network so far include academic

researchers, specialist clinicians in the public and private health sectors, allied health personnel such as nurses, physiotherapists and osteopaths, health service managers and other health professionals.

All health and medical researchers, clinicians and other health professionals are invited to join the Network at <http://ihmri.uow.edu.au/network/>

NHMRC EXECUTIVE DIRECTOR VISITS UOW

The Executive Director of the National Health and Medical Research Council (NHMRC), Research Investment Branch, **Professor Elim Papadakis** (pictured centre below) visited UOW on the 1st February.



Professor Papadakis gave a presentation on a range of NHMRC funding schemes including Project Grants, the new Partnerships Projects Scheme and the Peer Review Process.

The open forum was held for all researchers across a range of disciplines with an interest in pursuing health and medical research funding opportunities. About 50 staff attended the forum.

Vice-Chancellor Professor Gerard Sutton officially welcomed Professor Papadakis to the campus.

CAPSTRANS CELEBRATES TENTH ANNIVERSARY



Past and present CAPSTRANS researchers gathered at sixtyseven dining on Monday 7 December to celebrate the Centre's commitment to research excellence with the launch of a new promotional brochure, "Celebrating a Decade of Research Excellence", and corporate image detailing publication and grant successes. The brochure will be distributed by CAPSTRANS members at conferences and events nationally and overseas to further promote CAPSTRANS and the Faculty.



Guests including the DVC Operations **Professor John Patterson** and the DVC Research **Professor Judy Raper**, joined CAPSTRANS board members and Faculty of Arts staff members to hear speeches from CAPSTRANS Director

Associate Professor Tim Scrase, Dean of Arts Professor Wenche Ommundsen, and Honorary Professorial Fellow Professor Stephen Hill (pictured).



Dr Zenobia Jacobs has won the Sir Nicholas Shackleton medal for outstanding young Quaternary scientists - announced in December 2009. UoW has featured strongly since its inception when Chris Turney, then part of the School of Earth and Environmental Science (now at the University of Exeter in the UK) was the first recipient of the medal in 2007.

INQUA (International Union for Quaternary Research) established the Sir Nicholas

Shackleton Medal in recognition of the many contributions of Nick Shackleton, a giant in the field of Quaternary science. The medal is awarded once every 4 years to an outstanding young Quaternary scientist, chosen by his or her peers and evaluated by a blue-ribbon committee of distinguished scientists.

The citation for Zenobia reads as follows:

"Zenobia Jacobs, a South African by birth, is a Senior Research Fellow at the University of Wollongong in Australia. Since graduating from the University of Wales at Aberystwyth in 2004 she has made significant methodological advances in single-grain optically stimulated luminescence (OSL) dating, and applied her results to a range of topics. These include understanding the role of ecological change in the lives of our earliest ancestors in Africa and the effect of humans on the native biota of newly colonised lands, such as megafaunal extinctions in Australia. She publishes in main-stream popular science media as well as prestigious scientific journals. Zenobia will be invited to present a lecture on her work at the next International Congress in Bern."

UOW CO-CHAIRS INTERNATIONAL CONFERENCE



The International Conference on Manufacturing Science and Engineering 2009 (ICMSE 2009), organized by the University of Wollongong and Hong Kong Industrial Technology Research Centre and co-organized by Guangzhou University, was successfully held at Zhuhai Dehan Hotel for 3 days on 26 - 28 December 2009.

The ICMSE 2009 provided a forum for leading researchers and industrialists to discuss and exchange their current research results as well as new research issues. ICMSE 2009 covers the recent advancement and trends in the area of manufacturing science and engineering to facilitate knowledge sharing and networking interactions on emerging trends and new challenges.

The total number of participants at this conference was 450 from the world. The Conference Chairman, Associate Professor Zhengyi Jiang gave an opening keynote lecture on 'Mechanics in cold rolling of thin strip', and chaired whole keynote lectures.

The total number of submitted papers is 3,062, and 976 are accepted, all of accepted papers were subjected to strict peer-reviewing by 2-5 expert referees. All accepted papers will be published in the international journal "Advanced Material Research".

INTERDISCIPLINARY EDUCATIONAL RESEARCH INSTITUTE (IERI) NEWS

International Conference

Members of the Learning, Design, and Technologies theme held their first "in house" Learning Design Conference on 10 December 2009 at the Innovation Campus. There were approximately 25 delegates and two renowned international speakers in the area of learning design:

1. Professor Peter Sloep, Technology Enhanced Learning, Open University of The Netherlands,
2. Dr Isobel Falconer, Glasgow Caledonian University

The conference was very well received and selected papers will be included in a Special Issue titled: "The future of learning design" to be published in the International Journal of Learning Technology in 2010. This special issue is being edited by Dr Shirley Agostinho, Associate Professor Sue Bennett, Associate Professor Lori Lockyer, and Professor Barry Harper, from IERI.

Tony Okely was a CI (Chief Investigator) on a recently announced ARC Discovery grant awarded to Newcastle University for the project titled Engaging economically disadvantaged adolescent girls in physical activity and healthy eating to improve health and prevent obesity. This grant was awarded \$155,000 over the next two years.



Associate Professor Garry Hoban has co-authored an international book on professional learning that was recently published. The details are:

Aubusson, P., Ewing, R. & Hoban, G. (2010). Action learning in schools: Reframing teachers' professional learning and development. New York and London: Routledge Press.

We want your news items..

Please send items to vwallace@uow.edu.au or taniaveronese@uow.edu.au



Dr Xiao Liu became the first member of the ACES Bionics Team to successfully complete her PhD and was awarded her degree at the recent Faculty of Science Graduation Ceremony at the University of Wollongong. Her thesis, titled "Effective Control of Cell Behaviour on Conducting Polymer," covered chemistry, electrochemistry, materials

research and (bio) cells, reflecting the multidisciplinary nature of ACES. Throughout the duration of the PhD, Dr Liu published three papers on biomaterial areas and presented her work at the 19th Annual Conference of the Australasian Society for Biomaterials and Tissue Engineering (ASBTE).

Dr Liu (picture here with her husband) plans to continue investigating the biomedical application of conducting polymers.

CONSTRUCTION STARTS ON PROCESSING & DEVICES FACILITY

Construction is underway on the \$40 million federally funded Processing & Devices (P&D) Facility, at the Innovation Campus in Wollongong. The new facility is a significant and timely opportunity that will provide customised state-of-the-art laboratory infrastructure to house fabrication and scaled-up synthesis capabilities. The fabrication areas within the new facility will comprise both sterile and non-sterile laboratories biological laboratories, as well as engineering and design facilities, and staffed workshops, affording an integrated device development capability unique in Australia.

This new capability, unprecedented in Australia, will provide both researchers and external users with state-of-the-art facilities to produce low cost components or whole devices that can be printed on flexible substrates for use in application areas such as chemical/biosensors, flexible solar cells, flexible batteries/capacitors, electrochromic devices, fuel cells, wearable energy storage and human movement devices. It is set to open in 2011.

SUMMER SCHOLARSHIPS STRENGTHEN SCIENCE CENTRE COLLABORATION

A number of UOW students are currently spending their summer with the IPRI research team at the Innovation Campus. UOW Honours students Tim Buhhorn and Joseph Giorgio are developing material for a nanotechnology exhibition planned for the Wollongong Science Centre in collaboration with IPRI/ACES.

Tim will be working on establishing a water splitting exhibit, while Joseph will work on the next phase of the Nanotechnology iDome project which was launched at the Science Centre in 2009.

Another UOW student Ankita Raiyani will be functionalising polyacrylic acid with alkyne and azide groups with the intention of forming hydrogels from these. Ankita's Summer Scholarship is funded by the University of Wollongong under the 2009 URC Small Grants Scheme for a project entitled "Constructing tough hydrogels by Click Chemistry".

While another Summer Scholarship has been awarded to Aravind Ramachandran, who will be working on the preparation of polymer samples and electrochemical characterisation with the IPRI team.



Summer Scholarship holders at IPRI/ACES Joseph Giorgio, Tim Buhhorn, Ankita Raiyani and Aravind Ramachandran.

CONFERENCES & WORKSHOPS



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) with your request.

RESEARCH COMMERCIALISATION WORKSHOPS 2010

In conjunction with UniQuest Pty Ltd, UOW is running two interactive workshops in 2009, tailored to the needs of university academic researchers and higher degree postgraduate research students respectively. The workshops offer an intensive grounding in the processes, practices, pitfalls and potential rewards of commercialising research across all academic disciplines.

- Higher Degree Research Students: 18-19 March 2010 (Includes a special session on career development. HDR students from all UOW faculties are welcome to apply. Applications close on Friday 12 February 2010).
- Academic Researchers' Workshop: 14-15 April 2010
More at: <http://www.uow.edu.au/research/workshops/>

PREVIOUS WORKSHOPS

Medievalism, Colonialism, Nationalism 18-20 January 2010 (UOW)

Organised by Dr Louise D'Arcens (Arts Faculty), this symposium was held at the University of Wollongong on 18-20 January 2010. This ARC-sponsored, invitation-only symposium was able to generate and sustain dialogue between scholars of Australian literature and culture, and scholars of medieval culture and its post-medieval adaptations and re-inventions. Along with the list of leading Australian participants, international guests included: Professor John Ganim (University of California, Riverside), Dr Seeta Chaganti (University of California, Davis), Dr David Matthews (University of Manchester), Dr Anke Bernau (University of Manchester) and Dr Chris Jones (University of St Andrews).

Capital, Labour and Crisis: implications for the clothing industry in the Asia Pacific" convened by Dr Vicki Crinis (UOW) and Prof. Adrian Vickers (UofSyd) 6-7 January, 2010.



The interdisciplinary workshop sponsored by the ARC Asia Pacific Futures Research Network (APFRN) and CAPSTRANS was attended by international presenters and discussants including well-known economists, geographer and labour academics, Rajah Rasiah (Dean of Economics, University of Malaya), Sally Weller (VUT), Anita Chan (UTS), Piyasuda Pingsapa (University of the West Indies, Trinidad), Leo van Grunsven (Utrecht University, Netherlands), Melanie Beresford (Macquarie University) Angie Ngoc Tran (University of Southern California, Monterey Bay) and Helena Spyrou (Clothing Trade Union).

Trade Liberalisation, Economic Reform and Displacement: Comparative Research from the Asia Pacific 12-13 December 2009 (UOW)

An international workshop, sponsored by the ARC's Asia Pacific Futures Research Network (APFRN) was hosted by CAPSTRANS, on the experiences and portrayal of refugees and displaced people in the Asia Pacific region over the weekend of 12-13 December last year.

This international, invited workshop examined the experiences and representations refugees and displaced people in the Asia Pacific region. An increasingly important issue for the region is the rising number of people who are becoming displaced within their homelands as well as seeking refuge across bordering areas. This has been precipitated by series of economic and political crises, compounded by neoliberal globalisation.



Organiser Dr Ruchira Ganguly-Scrase (front), CAPSTRANS Director A/Prof. Tim Scrase (right) with participants.

CAPSTRANS/ICR WORKSHOP

Embodied Cognition, Enactivism and the Extended Mind 10-11 December 2009

A workshop exploring the complementary analyses of embodied, enactive and extended approaches to cognition was conducted by CAPSTRANS/ICR at the University of Wollongong, December 10-11.

Australian and overseas participants were involved in the workshop which is part of an Australian Research Council (ARC) Discovery Project. Workshop convener, Dr Richard Menary, of the School of English Literatures and Philosophy, said participants focused on questions such as: Is there a biological basis to the extended mind? Is cognition embodied and embedded but not extended? And does an enactive amount of cognitive skills exclude and appeal to cognitive representations?



Dr Richard Menary (front- black shirt) with participants

Legal Intersections Research Centre & CAPSTRANS/CSP Workshop: Political Violence 4-5 November 2009 (UOW)

In the wake of the 11 September 2001 attacks in the United States, Western governments enacted extensive counter-terrorism legislation. In part, these laws aim to counter the recent proliferation of groups that advocate violent tactics, classed by the state as 'terrorist'. The intense debate that surrounds the concept of terrorism and the legitimacy of state responses to this phenomenon has made the question of political violence of central importance for political, ethical and legal theory.

The Political Violence workshop was organised by Dr Sarah Sorial (pictured below, centre) of the Legal Intersections Research Centre, along with Dr Charles Hawksley of the Citizens, States and Power node of CAPSTRANS.



