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

To ensure inclusion of your research news, event or service in the next issue of RAID (due for publication early February, please e-mail details to taniav@uow.edu.au or vwallace@uow.edu.au by 25th January.

Contributions

Page 12: Professor Buddhima Indraratna and industry partner David Christie received the Business-Higher Education Round Table’s (B-HERT) “2009 Award for Best Research & Development Collaboration”.

Page 13: A/Prof Sharon Robinson has been appointed as a member of the Antarctic Science Advisory Committee (ASAC) by Peter Garret (Minister for the Environment).

Page 16: The P.M. has presented UOW PhD student, Matthew Griffith, with a prestigious Asia Endeavour Award.
NEWS FROM THE GRANTS TEAM

After a year of maternity leave Julie Matarczyk returned to the RSO in August this year in the role of Research Development Manager. In her new role Julie is focusing on a number of key projects, including support for research centres (such as ARC Centres of Excellence and the Eastern Australia Dementia Training Study Centre), building links with IHMRI and the Graduate School of Medicine, and the Internationalisation of our research. Julie is currently working part-time, Monday to Wednesday, and can be contacted on extension x 4728

Recent ARC Grant Outcomes

The University of Wollongong has been awarded $11.4 million funding through the Australian Research Council (ARC) Discovery Grant and Linkage Grant schemes. The Minister for Innovation, Industry, Science and Research, Senator Kim Carr, announced the grants in Canberra late October. It sees UOW ranked ninth nationally out of 39 Australian universities for overall dollars awarded and seventh nationally (relative to size). Of the 26 successful UOW Discovery Projects (DP) and seven Linkage Projects (LP) to be funded from 2010, outstanding results were achieved across most UOW faculties.

IMB Community Foundation

The Foundation is calling for applications for funding in 2010. The IMB Community Foundation was established in 2000 as a way for the IMB to show tangible support for the communities in which its members live and work. This includes Wollongong and the Shoalhaven to Bega and the far south coast, inland to Canberra, Goulburn, the Southern Highlands, the Macarthur Region and into southern and western Sydney. The Foundation supports projects that reflect its objectives, which include enhancing the economic self-sufficiency of communities, as well as generating economic, social, cultural, environmental, tourism and educational benefits for those communities. Further information can be found at: Applications close on 30 December. https://www.imb.com.au/AboutIMB/Foundation.asp

Successful ARC Discovery Projects 2010 (UOW as administering institution)

<table>
<thead>
<tr>
<th>Chief Investigator and Faculty</th>
<th>Other CI’s</th>
<th>Project Title</th>
<th>Total ARC $</th>
</tr>
</thead>
<tbody>
<tr>
<td>A/Prof Tim Coltman Informatics</td>
<td>Keating BW</td>
<td>Modelling IT alignment in multi-business service organisations</td>
<td>250,000</td>
</tr>
<tr>
<td>Dr Anthony Dosseto Science</td>
<td>Chivas AR</td>
<td>Soil erosion and river system response to climate change and early human activity in Australia</td>
<td>300,000</td>
</tr>
<tr>
<td>Dr Zaiping Guo (QEII) Engineering</td>
<td>Chen Z</td>
<td>New directions to miniaturized power sources: Integrated all-solid-state rechargeable batteries</td>
<td>700,000</td>
</tr>
<tr>
<td>A/Prof Pauline Harris Education</td>
<td>Chen H Derewianka BM Kervin LK McKKenzie B Turbull JB Fitzsimmons P</td>
<td>The National English Curriculum: Understanding the development, interpretation and implementation of disciplinary knowledge</td>
<td>246,000</td>
</tr>
<tr>
<td>Prof Buddhima Indraratna Engineering</td>
<td>Ngheim LD Glamore W</td>
<td>Investigation of chemical clogging in a permeable reactive barrier (PRB) installed for remediating groundwater from acid sulphate soils</td>
<td>310,000</td>
</tr>
<tr>
<td>Prof Buddhima Indraratna Engineering</td>
<td>Rujikiatkamjorn C Liu MD Chu J</td>
<td>Laboratory and theoretical investigation of soft clay behaviour under cyclic loading stabilised by prefabricated vertical drains</td>
<td>366,000</td>
</tr>
<tr>
<td>Name</td>
<td>Department</td>
<td>Title</td>
<td>Budget</td>
</tr>
<tr>
<td>-----------------------------</td>
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<td>----------------------------------------------------------------------</td>
<td>--------</td>
</tr>
<tr>
<td>Zenobia Jacobs (QEII)</td>
<td>Science</td>
<td>A tale of two species: constructing chronologies for patterns of change in the behaviour of Neanderthals and early modern humans</td>
<td>843,000</td>
</tr>
<tr>
<td>A/Prof Zhengyi Jiang</td>
<td>Engineering</td>
<td>Mechanics of micro cross wedge manufacturing</td>
<td>365,000</td>
</tr>
<tr>
<td>Dr Jung Ho Kim</td>
<td>Engineering</td>
<td>Directed assembly and photoelectric properties of core-shell nanowire networks of PbSe-TiO2 heterostructures for high efficiency low-cost solar cells</td>
<td>300,182</td>
</tr>
<tr>
<td>Dr Konstantin Konstantinov</td>
<td>Engineering</td>
<td>Advanced nanostructured ceramic composites for ultracapacitors</td>
<td>280,000</td>
</tr>
<tr>
<td>Dr Helen McGregor</td>
<td>Science</td>
<td>Untangling the links between El Nino and the changing global climate</td>
<td>350,000</td>
</tr>
<tr>
<td>Prof Luke McNamara</td>
<td>Law</td>
<td>The impact of hate speech laws on public discourse in Australia</td>
<td>196,000</td>
</tr>
<tr>
<td>Dr Richard Menary</td>
<td>Arts</td>
<td>Embodied virtues and expertise</td>
<td>293,000</td>
</tr>
<tr>
<td>Prof Michael Morwood</td>
<td>Science</td>
<td>In search of the first hominins: excavations at Mata Menge, Flores, Indonesia</td>
<td>1,075,000</td>
</tr>
<tr>
<td>Prof Gerald Nanson</td>
<td>Science</td>
<td>How green were our deserts? Evidence for Late Quaternary climate change and the source of water in the Lake Eyre basin</td>
<td>350,000</td>
</tr>
<tr>
<td>Dr Stephen Palmisano</td>
<td>H&amp;BS</td>
<td>Viewpoint changes during locomotion: Their role in self-motion perception and motion sickness</td>
<td>200,000</td>
</tr>
<tr>
<td>Prof Stephen Pyne</td>
<td>Science</td>
<td>Stereoselective synthesis of bioactive alkaloids for structure elucidation and drug discovery</td>
<td>390,000</td>
</tr>
<tr>
<td>Prof Iain Raeburn</td>
<td>Informatics</td>
<td>Structure and states for operator-algebraic dynamical systems</td>
<td>420,000</td>
</tr>
<tr>
<td>Dr Christian Ritz</td>
<td>Informatics</td>
<td>Encoding and communicating navigable soundfields</td>
<td>210,000</td>
</tr>
<tr>
<td>Prof Anatoly Rozenfeld</td>
<td>Engineering</td>
<td>Development of innovative radiation detectors and computational techniques for improving quality of life</td>
<td>310,000</td>
</tr>
<tr>
<td>Dr Adam Trevitt</td>
<td>Science</td>
<td>How does biodiesel fuel burn? Revealing the chemical processes of methyl ester decomposition and oxidation</td>
<td>210,000</td>
</tr>
<tr>
<td>Chief Investigator</td>
<td>Other</td>
<td>Project Title</td>
<td>Industry Partner Received</td>
</tr>
<tr>
<td>--------------------</td>
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<td>----------------------------</td>
</tr>
<tr>
<td>Prof David Ayre Science</td>
<td>Denham A</td>
<td>Genetic rescue of Australia’s arid zone plants</td>
<td>DECC NSW, Murray Darling CMA, Lower Murray Darling CMA, Sunraysia Nurseries Pty Ltd</td>
</tr>
<tr>
<td>Prof Shi Dou Engineering</td>
<td>Horvat J Xu X (APDI) Moscrop JW</td>
<td>Design, build and test a fault current limiter employing magnesium diboride (MgB2) superconducting coils</td>
<td>Zenergy Power Pty Ltd</td>
</tr>
<tr>
<td>Prof Buddhima Indraratna</td>
<td>Zhu SP, Nemcik JA Yang S Gale WJ</td>
<td>Study of coupled water-gas-sediment (three-phase) flows through jointed and stratified rock</td>
<td>Strata Control Technology SCT Pty Ltd (Wollongong)</td>
</tr>
<tr>
<td>A/Prof Kashem Muttaqi Informatics</td>
<td>Perera S Ciufo PP Sutanto D Elder LA</td>
<td>Integration of solar, wind and storage systems into distribution grids for network support</td>
<td>Country Energy</td>
</tr>
<tr>
<td>Dr Peter Siminski Commerce</td>
<td>Ville SP</td>
<td>The long term causal effects of Vietnam War era conscription on economic and social outcomes for Australian conscripts</td>
<td>Australian Government Department of Veterans’ Affairs</td>
</tr>
<tr>
<td>Prof Trevor Spedding Commerce</td>
<td>Clements MD Sohal AS Daniel LJ Dawson PM</td>
<td>Technological innovation and change in supply chain integration</td>
<td>LG Electronics Aust Ltd, TNT Australia Ltd, Compdata Pty Ltd</td>
</tr>
<tr>
<td>Prof Jiazhao Wang Engineering</td>
<td>Liu HK Konstantinov KK Wang Z</td>
<td>Room temperature rechargeable sulphur batteries</td>
<td>PT Nipress TBK, DLG Batteries Co. Ltd China</td>
</tr>
</tbody>
</table>
## RESEARCH ETHICS

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

<table>
<thead>
<tr>
<th>Committee (HREC)</th>
<th>Topic</th>
<th>Meeting Date</th>
<th>Agenda Deadline</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health and Medical</td>
<td></td>
<td>15th December</td>
<td>November 25th</td>
</tr>
<tr>
<td>Humanities, Social Science &amp; Behavioural</td>
<td></td>
<td>December 17th</td>
<td>December 2nd</td>
</tr>
</tbody>
</table>


## AUSTRALIAN LEARNING & TEACHING (ALTC) GRANTS - 2010

The ALTC promotes excellence in higher education by recognising, rewarding and supporting teachers and professional staff through a suite of award, fellowship and grant schemes. It aims to enhance the student learning experience by supporting quality teaching and practice.

### Leadership for Excellence in Learning & Teaching Program

> This program provides grants for projects that build leadership capacity in ways consistent with the promotion and enhancement of learning and teaching in contemporary higher education. They should reflect the ALTC’s values of excellence, inclusiveness, diversity and collaboration and its commitment to long-term systemic change.

### Priority Projects

> This program responds to priorities emanating from the ALTC’s designated responsibilities and priorities determined by the ALTC Board. The priorities for funding in 2010 are:

- Academic standards, assessment practices and reporting.
- Curriculum renewal.
- Teaching and learning spaces.
- Peer review for promotion.

### Support for grant applicants:

Joanna Failes, Grants and Awards Officer, CEDIR @failes@uow.edu.au. (for guidance on developing the grant application, initiated by a Notice of Intent to Apply)


### Need Assistance with your Grant Application? - Statistical Advice available

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

### INaugural AUSTRALIAN AND NZ NETWORK MEETING

A two-day network meeting hosted by the University of Wollongong for people involved with the administration of ethics in research was held on 12 and 13 November.

With speakers from New Zealand and around Australia, participants learnt more about national and international ethical review systems and possible impacts of Australia’s research agenda on development of the Australian system.

The presenters included speakers from the Murdoch Children’s Research Institute, Macquarie University, the Aboriginal Health and Medical Research Council, the Australian Research Council (ARC), National Health and Medical Research Council (NHMRC) and the Cancer Institute of NSW.

The network meeting also allowed people working in this area to discuss strategies for improving the administration of ethical research. Enquiries about this Network Meeting to Eve Steinke (eyes@uow.edu.au)

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### Successful NHMRC Project Grants 2010

<table>
<thead>
<tr>
<th>Chief Investigators</th>
<th>Project Title</th>
<th>$ Allocated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr Martina Sanderson-Smith</td>
<td>Role of the host fibrinolytic system in invasive group A streptoccal disease</td>
<td>$503,500</td>
</tr>
<tr>
<td>A/Prof Robert Kapsa, Prof Gordon Wallace</td>
<td>Multimodal Woven BioPolymer Fibre Conduits for Remodelling Damaged Peripheral Nerve</td>
<td>$662,500</td>
</tr>
<tr>
<td>Prof Xu-Feng Huang, Dr Chao Deng</td>
<td>Schizophrenia: prevention and treatment of atypical antipsychotic drug-induced obesity</td>
<td>$399,250</td>
</tr>
</tbody>
</table>

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## UNI IN THE BREWERY 2009

**MANY THANKS TO LORI LOCKYER FOR HER PRESENTATION AT FIVE ISLANDS BREWERY LAST OCTOBER.**


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## Follow UOW Research on Twitter

Follow [UOW Research](https://twitter.com/uowresearch) on Twitter. Find us via [www.twitter.com/uowresearch](http://www.twitter.com/uowresearch)

Join these groups for news and info from the Research & Innovation Division (RAID). Contact us if you have trouble finding us on either of these sites. Ph 4221 4126
The Research Student Centre has begun enrolling, re-enrolling and processing Higher Degree Research (HDR) students for Autumn and Spring Sessions 2010. These re-enrolments and enrolment variations are only processed following a complete and successful 2009 Annual Progress Report. Please ensure that all re-enrolments and variations (leaves of absence, change of enrolment status etc) reach the Research Student Centre or go directly to the HDR Enrolment Officer - June Toussis before the census date of 31st March 2010 - junet@uow.edu.au together with supervisor support if submitting these requests separate to the Annual Progress Report. We also ask that, once enrolled, you check that all of your enrolment details are correct, if not correct please contact the Research Student Centre by email above or phone 4221 5453 immediately.

December 2009 HDR Graduands
There are 87 HDR students graduating at the December 2009 graduation ceremonies. 67 are receiving doctoral degrees and 20 are being awarded Masters - Research degrees.

Annual Progress Reports
APRs were released on-line via SOLS to HDR students on 12th October 2009. Due Dates – to note:

<table>
<thead>
<tr>
<th>Date</th>
<th>Task</th>
</tr>
</thead>
<tbody>
<tr>
<td>7 December 2009</td>
<td>HDR candidate should complete Section 3 and submit the Progress Report to the Head of Postgraduate Studies.</td>
</tr>
<tr>
<td>21 December 2009</td>
<td>The Head of Postgraduate Studies should forward the APR to the Dean of the Faculty.</td>
</tr>
<tr>
<td>22 January 2010</td>
<td>The Dean of Faculty should return the APR to the Research Student Centre.</td>
</tr>
<tr>
<td>1 – 28 February 2010</td>
<td>RSC process HDR re-enrolments, LOA etc for 2010.</td>
</tr>
</tbody>
</table>

2009 INTEGRAL ENERGY BUSINESS AWARDS
The Commercial Research Unit (“CRU”) was a finalist in two categories at the recent 2009 Integral Energy Business Awards. The Gala Awards Dinner was held on Friday 13 November at the WIN Entertainment Centre. Over 1000 of the region’s business people from across the Illawarra gathered to celebrate the outstanding achievements of the region’s business community.

DEFENCE NEWS
The University has been successful in becoming an Associate Member of the Defence RPDE (Rapid Prototyping Development and Evaluation program).

The RPDE Program is wide participation from industry in collaborative task teams with a willingness to contribute intellectual property, know-how and experience in the investigation of questions posed by Defence. The RPDE Program aims to identify and evaluate capability improvement options for Defence in short timeframes typically 12 to 18 months, producing evidence to allow Defence to make decisions that rapidly improve the ADF’s networked warfighting capability.

UOW will be looking for project opportunities to engage with Defence and other businesses and research institutions as they are released.

Establishing Internal Research Networks
CRU has identified several research areas where a diversity of academic staff are involved but probably aren’t aware of each others’ activities. To help UOW researchers to network in areas of mutual interest, CRU is hosting Networking Sessions to better develop internal linkages. The idea is to share information, identify common themes and opportunities, get to know other people working in similar areas and identify options to stay in contact on an ongoing basis. The forums are facilitated by CRU in a casual way where researchers are invited to introduce themselves and their area of research followed by lunch and informal discussions. To date CRU has hosted two very successful forums – Drug Delivery and Indigenous Research.
In the near future, the technological advances in radiation therapy, especially in prostate cancer treatment, are poised for commercialisation in the US. This is due to the innovative work of researchers at the University of Wollongong (UOW), who have developed a ‘Prostate Immobilizer Balloon System’ to enhance radiation therapy for prostate cancer patients.

**Prostate cancer radiation device poised for commercialisation in the US**

An innovative prostate cancer treatment device developed by University of Wollongong (UOW) researchers has enhanced the Prostate Immobilizer Balloon System launched by US Texas company, Radiadyne, at the American Society for Therapeutic Radiology and Oncology (ASTRO) convention in Chicago recently.

The technologically advanced ‘Prostate Immobilizer Balloon System’, which supports adaptive radiation therapy for prostate cancer patients, incorporates sensors developed by the University’s Centre for Medical Radiation Physics (CMRP), under the directorship of Professor Anatoly Rozenfeld (pictured). UOW licensed the technology exclusively to Radiadyne for its Prostate Immobiliser System. An international patent application has been filed in relation to the device, and it is anticipated that the new version of the system with the novel sensor will be available for commercial sales in the United States within six months, pending regulatory clearance from the Food and Drug Administration (FDA).

UOW researchers from the ICT Research Institute (ICTR) have developed wireless communications technologies that could serve a key role in one of Partech’s newest product development initiatives, serving a domestic market and addressing the needs of the industry internationally. Members of the ICT Research Institute under the supervision of Dr. Mehran Abolhasan, head of the Emerging Wireless Networks Research Center, will work with Partech Systems in its development of a low cost solar powered level crossing control system for use in rural and remote communities within Australia and overseas, to address safety issues at the vast number of unprotected rail level crossings within these areas.

“Launching this innovation into the market via Radiadyne’s system is going to make a real difference to prostate cancer patients in the near future.”

For more information or enquiries contact Tony Enright (02) 4221 4129 or tonye@uow.edu.au;

**BUSINESS DEVELOPMENT ACTIVITIES**

**ICT Research Institute (ICTR) promotes Researchers in Business**

Partech Systems of Nowra has recently been awarded a grant of $50,000 from Enterprise Connect as part of the Australian governments new “Researchers in Business Program” to work with researchers from the University of Wollongong’s ICT Research Institute. This program supports fifty percent of the salary of researchers from universities for placement with a SME to implement new ideas of commercial value.

UOW researchers from the ICT Research Institute have developed wireless communications technologies that could serve a key role in one of Partech’s newest product development initiatives, serving a domestic market and addressing the needs of the industry internationally.

Members of the ICT Research Institute under the supervision of Dr. Mehran Abolhasan, head of the Emerging Wireless Networks Research Center, will work with Partech Systems in its development of a low cost solar powered level crossing control system for use in rural and remote communities within Australia and overseas, to address safety issues at the vast number of unprotected rail level crossings within these areas.

“This is the first grant of its kind awarded to the University. The ICT Research Institute has a track record of working with Australian industry and we are particularly appreciative of the opportunities to work with and support local industry within the Illawarra. The support from Enterprise Connect for the researcher placements comes at an opportune time to progress the research with Partech Systems towards commercial outcomes.”

Partech Systems is a “Defence Recognised Supplier – Strategic Capabilities” to the Defence Material Organisation, mainly for its work on the Joint Strike Fighter program (JSF F-35). Partech also supports the Seahawk helicopters for RAN and FA-18 Fighter Aircraft for the RAAF, and more recently was awarded a major contract to develop electronics test solutions for rail carriages operating on the Sydney Metro system.

For more information or enquiries contact Tony Enright on (02) 4221 4129 or tonye@uow.edu.au;

**NATIONAL ENTERPRISE COMPETITION**

Two University of Wollongong (UOW) business ideas competed as finalists in the University of Queensland (UQ) Business School’s annual Enterprize, a national competition designed to assist start-up companies with seed capital, business plans and to foster effective networking with venture capitalists.

Both entries ‘Warrapharm’ and ‘ToughSkin’ showcased the strengths of applied technology developments and business plan development maturity at the University of Wollongong.

These enterprising entries can be viewed on the Research website at: http://www.uow.edu.au/research/profile/index.html
TIME TO PUT PEN TO PAPER, BUT NOT SURE WHERE TO PUBLISH?

Elevate your passion for communication by committing to write a paper. Ensure your ideas are exchanged with the widest audience. Transfer your research to a high impact journal or a peer reviewed journal in your field. Discover a journal’s ranking. Transfer knowledge through an open access model. Advance your search for the best journal to publish in with the Where do I publish guide.

Library homepage > Information for > Researchers > Publishing > Where do I publish?

RESEARCH MENTORING PROGRAM FOR EARLY CAREER RESEARCHERS 2010

If you’re an aspiring, committed early career researcher who would like to fast track their research career this program is for you!

As a result of a successful pilot Research Mentoring Program for Early Career Researcher (ECR) in 2007 - 2008, this Program will now be open to all early career researchers at UOW. Expressions of interest for the Program are now open with the

WHAT ARE THE BENEFITS OF HAVING A MENTOR?

• increased confidence as a researcher
• encouragement to develop a research plan
• gaining research related knowledge and skills from an experienced researcher
• support to achieve short term milestones
• reduced sense of isolation
• building a professional research network
• learning to better balance research with other activities
• increased motivation for undertaking research.

As part of this Program participants will:
• be matched with an experienced researcher outside their Faculty
• receive formal training from a recognised mentoring expert, Ann Rolfe
• be provided with support to build a research plan with both long and short term goals
• develop their research profile
• establish contacts and networks to support their research development

Expressions of interest for the 2010 Program are now open and will close on February 5, 2010. These need to be submitted on the Research Mentoring Program Expression of Interest Form which can be downloaded from the PODS Research Mentoring website.

For more information about the program please visit the PODS Research Mentoring website or contact Lorraine Denny, ldenny@uow.edu.au xtn: 4948 or Jeanette Kost jkost@uow.edu.au xtn: 4876
Make Your research available via RIS
Academics can now input publication data and files into the Research Information System (RIS) and have that material uploaded into Research Online. This is now a one step process saving time and effort. When entering data about publications, include a copy of the paper. The Library will carry out copyright checks on all items before placing them on open access via Research Online. For further information see the Library Guide on Open Access http://uow.libguides.com/openaccess.

Host your conference on RO
The University’s open access repository is now able to host conferences and archive the proceedings. A full suite of features - timetabling, room locations, author biographies, storage of conference papers and a/v material such as podcasts - can be accommodated. If you are interested in learning more about using Research Online to host your next conference, please contact Michael Organ.

Wollongong journals on Research Online
Nine University of Wollongong journals are now hosted on Research Online. These include Asia Pacific Media Educator (Creative Arts), Law Text Culture (Law), International Gramsci Journal (Arts) and the Australasian Accounting Business and Finance Journal (Commerce). The full peer-review process can be carried out via Research Online. Two journals currently using Research Online to manage this process are the Australasian Journal of Peer Learning and the Journal of University Teaching and Learning Practice.

NEW RESEARCH STAFF

Dr Sarah Ferber is Head of Postgraduate Studies for the Faculty of Arts at UoW. She obtained a PhD in history from the University of Melbourne (1994) and taught at the University of Queensland from 1995 to 2009, where she also had administrative roles in postgraduate studies. Sarah Ferber is a cultural historian, with expertise in two discrete areas of religious and medical history.

She is widely recognised as an expert on the history of Catholic exorcism in early modern France and recently held a term’s Visiting Fellowship at All Souls College, Oxford, where she began a new project for CUP, on European witchcraft history. She also collaborates with the criminologist Assoc Prof Adrian Howe at RMIT University on a global study of cases of violent exorcism since 1970.

Her research in the field of modern bioethics brings a historical perspective to many of the major debates in modern medical policy and practice. In particular, she addresses the extent to which historical issues impinge on modern analysis of such subjects as genetic and birth technologies, euthanasia, and the pharmaceutical industry.

IHMRI LAUNCHES NEW RESEARCH NETWORK
The Illawarra Health and Medical Research Institute (IHMRI) welcomed Illawarra researchers and health professionals to the launch of its new Research Network on Wednesday 9 December.

IHMRI’s Executive Director Prof Don Iverson introduced the Institute and its work before the Network was officially launched by the Hon Jodi McKay, Minister for Science and Medical Research, and the Hon David Campbell, Minister for the Illawarra.

The strategic focus of IHMRI is providing leadership, fostering collaborations, and coordinating health and medical research conducted across multiple organisations. The IHMRI Research Network will provide the structures and mechanisms needed to facilitate this collaboration and coordination.

For further details on the IHMRI Research Network, please go to: http://ihmri.uow.edu.au/index.html
The World Bank and the post-Washington Consensus in Vietnam and Indonesia

By Susan Engel, University of Wollongong

This book explores the history, structure and current operations of the World Bank, which despite being the largest development organisation and the largest development research body in the world with tremendous direct and indirect influence on developing economies, has rarely received the critical attention its importance merits. The book’s unique contribution is twofold: it provides an original analysis of the interaction between economic theory, political practice and the Bank’s development praxis as well as two detailed, grounded studies of the Bank’s lending practices. The book starts with a detailed examination of the development theory and practice of the World Bank from its Keynesian origins to the current shift through the Washington Consensus to the so-called post-Washington Consensus. The second part is a detailed analysis of the Bank’s lending practices in two countries, Vietnam and Indonesia.
The Power of Ideas Essays on Australian Politics and History

BY GREGORY MELLEUSH, UNIVERSITY OF WOLLONGONG
ISBN: 978 1 74097 188 1

How important have ideas been in the history of Australia? This collection of essays examines key ideas that motivated Australians, including democracy, the ideal of Europe and socialism. The papers range from the colonial period to the present day, from the ideal of the natural aristocrat to the conservative populism of Pauline Hanson. They deal with fascinating Australians, including Daniel Deniehy to possibly the only Australian intellectual to engage actively in propaganda for the Nazis, Randolph Hughes. These essays demonstrate that there is a genuine intellectual depth to Australia.

Direct Observation of High-Temperature Phase Transformations in Steel Delta-ferrite to Austenite Phase Transformation.

By Salar Niknafs and Rian Dippenaar, University of Wollongong
ISBN 978-3-639-08515-0

During continuous casting of steel, the delta-ferrite to austenite phase transition occurs following solidification. It is of great industrial significance to gain a better understanding of the nature of this reaction because product quality is largely determined by events occurring during and shortly following solidification. Moreover, the exact way in which delta-ferrite transforms to austenite may influence the subsequent transformation of austenite to ferrite, by which much of the mechanical properties of the steel is determined. Relatively little attention has been devoted to the delta-ferrite to austenite phase transition in the past, in part because of the difficulty of making in-situ observations at high temperatures. The recent development of high-temperature Laser-Scanning Confocal Microscopy has provided new opportunities to observe in-situ high temperature phase transformations and this technique has been employed in the present study.

I know it’s dangerous: Why Mexicans Risk Their Lives to Cross the Border

Dr Lynnaire Sheridan, Faculty of Commerce, has just published “I know it’s dangerous: Why Mexicans risk their lives to cross the border” with The University of Arizona Press.

Based on extensive ethnographic fieldwork in Mexico and the United States, this book investigates the motivations and risk-taking activities of undocumented migrants identified via in-depth interviews and analysis of popular culture. She then compares migrant perspectives with the undocumented migration debate held in political, economic and legal spheres. Sheridan discovered that, with stricter border controls, undocumented border crossings have become more treacherous, study participants therefore chose to stay longer in the United States to avoid frequent border crossings. Contrary to the United States desired goals of reducing the number of undocumented migrants, stricter border policies have increased the number of migrants as many decided to cross all their family members, rather than just the male worker, to keep families together.

Perhaps most interesting was the ways within which migrants managed the increasing levels of risk. Without a doubt, the number one risk management tool for unauthorized Mexican migrants is family. According to the migrant participants in this study, the closer the kinship relationship of the migrant to the human trafficker, the better the chances for a safe, successful crossing into the United States. Chances are better still if the migrant can afford to pay the trafficker more: the higher the fee, the more sophisticated the strategy and the safer the journey. The safest, most expensive, option was to cross at an official border port of entry using, in order of preference, an original citizenship or permanent resident document (either borrowed or stolen), a false document, or an original document altered to include the migrant’s own photo. The worst, most dangerous, but also most economical option is to cross in a less secure, remote area, where migrants are often exposed to extreme climatic conditions or to attack either by other traffickers or, on the U.S. side of the border, by individuals with antimigrant sentiments.

Copies of the book may be ordered via the UOW campus bookshop, University of Arizona Press or Amazon.
AWARD HONOUR FOR VITAL RAIL TRACK RESEARCH

The University of Wollongong and RailCorp have been honoured with a major award for their collaborative research to improve track strength and stability to cater for heavier, faster trains.

At a ceremony attended by Deputy Prime Minister Julia Gillard at the Arts Centre in Melbourne, Professor Buddhima Indraratna received the Business-Higher Education Round Table's (B-HERT) “2009 Award for Best Research & Development Collaboration” for outstanding achievement.

This award is in recognition of the significant contributions made by the UOW-Railcorp (NSW) partnership of Professor Indraratna (Professor of Civil Engineering) and David Christie (Senior Geotechnical Consultant, RailCorp, NSW).

Professor Indraratna from UOW’s Faculty of Engineering is also its Director of the Centre for Geotechnical and Railway Engineering, and the Wollongong Co-ordinator for the Co-operative Research Centre for Rail Innovation.

He is regarded by his peers as being the leader of a group of researchers who are at the forefront of rail research in the world. Since the mid 1990s after starting rail track research for the first time in an Australian university, almost every PhD student in the rail track area in Australia has been a student of Professor Indraratna.

Professor Indraratna and his co-researchers along with RailCorp have been involved in the design and construction of modern rail tracks using high strength plastic grids and synthetic drain systems and for introducing new ballast standards for rail tracks in Australia to cater for faster and heavier trains.

Earlier this year, the NSW Premier Nathan Rees and Transport minister David Campbell announced $10 million in funding from RailCorp to establish the SMART Rail Institute at UOW.

The Rail Institute will play a critical part in the overall development of the University of Wollongong’s SMART (Simulation, Modelling and Analysis for Research and Teaching) Infrastructure Facility now under construction at the University.

B-HERT Awards were established in 1998 to recognise outstanding achievements in collaboration between business and higher education in the fields of research and development and education and training. The objective of the program is to highlight at a national level the benefits of such collaboration and enhance links between industry and universities. B-HERT awards are primarily sponsored by the Federal Government’s Department of Education, Employment and Workplace Relations.

More recently Prof. Buddhima Indraratna will present the EH Davis Memorial Lecture. It is considered the most prestigious lecture of the Australian Geomechanics Society through IEAust and awarded to someone who has made an outstanding contribution to geotechnical engineering in Australia.

This biennial lecture commemorates the pioneering work of Late Prof. Edward Hughson (Ted) Davis regarded as an early founder of Australian Geomechanics and emphasises the link between theory and practice, and since its inception in 1987, so far 10 distinguished Australian practitioners and academics have been honoured with the EH Davis Award.

The basis of the award is that the candidate selected by the National Committee of AGS should have made a distinguished contribution to the theory and practice of geomechanics in Australia. It is a cross-continent lecture tour that has to be delivered in all the key states of Australia where the geotechnical community is large, including NSW, QLD, WA and SA.

QUEST FINDS AN APPLICATION IN MINING

The University of Wollongong (UOW) has carried out research in simulating roadway development in underground coal mines to improve production rates using QUEST, a powerful 3D discrete event simulation tool.

Ms Soumya Rao, a Master of Mechatronics student at UOW has utilized QUEST to simulate underground coal mining processes in order to identify critical bottle necks and analyze the impact of implementing alternative technologies. This project was carried out under the supervision of Prof. Christopher Cook (Dean of Engineering at UOW) & A/Prof. Ernest Baafi (Mining Engineering at UOW).

Soumya Rao's work was aimed at simulating a mine to understand the current processes involved in roadway development. The project was concluded by simulating the utilization of Self Drilling Rock Bolt (SDRB) technology to analyze its impact on the production rate.

With the support and participation from various mining personnel, a realistic and accurate model of the roadway was built in QUEST. The various individual processes were mapped and simulated. Data for failure, cycle times, wait times & maintenance delays were sorted with respect to sequence of occurrence. The process was then simulated for the collected set of details and compared against the real mine output to validate the software.

Prof Cook says “We were so encouraged at the positive response by the Industry to Ms Rao’s research that we are continuing to use QUEST, and its accompanying tools to develop system analysis and visualization capability to support our on going research into other areas in underground coal mining. This research includes the design and implementation of automated rock bolting and mesh handling systems, and a revolutionary new roof support system using spray on roof liners”.

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A/Prof Sharon Robinson has been appointed as a member of the Antarctic Science Advisory Committee (ASAC) until 2012 by Peter Garret (Minister for the Environment).

The Antarctic Science Advisory Committee plays an important role in providing government with expert advice on the areas of scientific research that should be considered a priority for Australia’s Antarctic Program. The committee will be developing recommendations for a new Science Strategy for government to consider.

**UOW ACADEMICS APPOINTED TO WORLD COMMISSION ON PROTECTED AREAS**

Two UOW academics, Dr Michael Adams from the Woolyungah Indigenous Centre and Professor David Farrier from the Institute of Conservation Biology and Law, were appointed in October to a commission of the International Union for Conservation of Nature (IUCN), the largest conservation organisation in the world.

Dr Adams and Professor Farrier were invited to a workshop in Bonn, Germany in July to help IUCN produce a major new publication, the international Guidelines for Protected Areas Legislation. They prepared a case study on Indigenous co-management at Booderee National Park, Jervis Bay, and an overview of Indigenous co-management arrangements in Australia, as well as joining lawyers and conservation managers from around the world in a comprehensive review of the 600 page draft publication. Following the workshop, both academics were invited to join the World Commission on Protected Areas.

Dr Adams said ‘The Bonn workshop was an excellent example of the benefits of working collaboratively. We had lawyers, researchers and park managers from 15 nations contributing to the development of the Guidelines. When published, the Guidelines, which will be translated into several languages, will be the global standard for developing protected areas law’.

Dr Mitch Byrne, Lecturer in the School of Psychology, has been awarded the Best PhD Thesis Award for 2009 from the Australian Psychological Society. The award is based on examiners’ reports, publications emanating from the thesis, and overall impact of the research. It is not often that this Award goes to students in clinical psychology so winning this award is added testament to the quality and impact of his work.

A/Professor Mary Kaidonis presented a paper titled “STRATEGIC DISCOURSE AND AUSTRALIA’S CARBON POLLUTION REDUCTION SCHEME” paper co-authored by Mary Kaidonis, Professor Shirley Leitch and Dr Jane Andrew at the Global Dialogue Conference 2009 Climate Change as Challenge for Intercultural Inquiry on Values, November 2009, Aarhus University Denmark, Denmark.

**CHILD OBESITY RESEARCH CENTRE NEWS**

Congratulations to Dr Dylan Cliff who has been awarded a Heart Foundation Post-Doctoral Research Fellowship. These are extremely competitive and prestigious fellowships, with Dylan competing against some of the brightest and most talented early career public health researchers in the country. Only a very small number of fellowships are awarded annually. This is apparently the first time a UOW researcher has received one. This fellowship will allow Dylan to continue his cutting-edge research in the area of physical activity and sedentary behaviour among children.

This Fellowship would not have been possible without the support of initial post-doctoral funding from the Faculty and University. This allowed Dylan to spend his first 12 months post-PhD building his track record and formulating his ideas into a competitive application.

Also - Dylan Cliff attended the 14th Physical Activity and Public Health Researchers Course at Hilton Head Island, USA. The course is delivered by South Carolina University and the Centers for Disease Control and Prevention (CDC), and aims to develop competencies in physical activity research, particularly in research design and grantsmanship.

While abroad, Dylan visited the Prevention Research Centre at Stanford University where he attended after-school sessions of the ECHALE (Expressing Culture through Healthful Activity and Lifestyle Education) study, which aims to prevent diabetes and excessive weight gain in preadolescent Latina girls through dance.

Tony Okely was invited to be one of two international consultants to advise on and contribute to the development of Draft Guidelines on Physical Activity and Sedentary Behaviours for the Early Years for the UK Government.
In October, the Federal Government released the much anticipated Get up and Grow Healthy Eating and Physical Activity Guidelines for Early Childhood Settings. As a consultant to the project and in his capacity as the corresponding author of the Australian Physical Activity Recommendations for Children 0-5 years (which have been embedded in the Guidelines), Tony Okely spoke at the launch by the Federal Health Minister, Nicola Roxon and conducted several media interviews.

The Get up and Grow guidelines will be sent to every childcare setting in Australia. They provide a comprehensive resource including a manual for Directors and Setting Staff, posters and brochures, a cookbook, and information for parents on how they can provide healthy options for their child and support their childcare setting. A copy of the resource can be downloaded from: http://www.nhhrc.org.au/internet/main/publishing.nsf/Content/phd-gug-directorscoord

The Child Obesity Research Centre (CORe) hosted Professor Thomas McKenzie from San Diego State University recently. He delivered a training session on the measurement of physical activity in physical education using direct observation, and presented on the series of National Institute of Health research projects he has contributed to which aim to promote physical activity in schools and the community.

A/Professor Craig Gonsalvez has been awarded the Australian Psychological Society’s College of Clinical Psychologists’ Award of Distinction for 2009. The College’s Award of Distinction is given to a candidate of exceptional merit. It recognises the importance and significance of an individual’s contribution to the specialist field of clinical psychology and significant contributions to the College over a number of years. Craig Gonsalvez, a clinical psychologist by training, was Director of the Anxiety Disorders Clinic and Deputy Head, Department of Medical psychology at Westmead Hospital, when he was recruited to the University of Wollongong in 1996 to teach in its clinical psychology programs. He has served as Director of Clinical Psychology Training in the School of Psychology for several years (2001-2004; 2008 – current) and has contributed in a significant way to raising the quality and reputation of clinical psychology training at the University of Wollongong. His contribution to clinical psychology training was recognised by the Australian Psychological Society when he was selected to be Chair of Course Approvals for the APS College of Clinical Psychologists. Craig’s research contributions are in the area of clinical psychophysiology. He is principal investigator of an ongoing ARC-Linkage grant, “Problem Gambling: Can subtle physiological reactions to wins and losses help identify the problem gambler?”

Craig is currently Associate Professor and Director of Clinical Training, School of Psychology, and teaches Cognitive Behaviour Therapy and Clinical supervision to postgraduate students.

NATIONAL NURSING APPOINTMENT

The Dean of the Faculty of Health and Behavioural Science, Patrick Crookes, has become the Chair of the Council of Deans of Nursing and Midwifery. This elected position acknowledges and values Patrick’s contribution to nursing and midwifery in Australia and New Zealand.

Patrick has been on the Council since 1999 and on the executive for 8 years, serving as Secretary and Deputy Chair for the last 2. As Deputy Chair Patrick was active in promoting the voice of academic nursing and midwifery, particularly pre-registration nurse education at all levels, including state and federal level politics. Nursing and midwifery quality and supply are major issues in health services worldwide and the Council has a major role in promoting excellence in RN/RM preparation, whilst also promoting (and sometimes defending) the professions from attack by forces of conservatism - for example, those who see the simple cure for the ills of health services to be ‘put nurse education back into the hospitals’.

At the same time, the Council is regularly consulted on issues related to public policy and planning; as well as providing leadership for the development of nursing and midwifery via research. Patrick has also represented Council on several major Govt. sponsored curriculum initiatives for example in relation to Aged Care and Mental Health Nursing content in RN preparation programmes; both of which have led to recommendations for curriculum updating across programmes in Australia. Patrick currently represents Council on the National Health Workforce Taskforce’s expert panel for ‘Simulated Learning Environments’.

In recent times, The Australian and New Zealand Council of Deans of Nursing and Midwifery has become a founding member of the Global Alliance for Nurse Education, Leadership and Science (GANES) [yes there is no L in the acronym!] which is a collaboration currently of similar Councils from the US, UK and Canada. Its charter is to provide leadership and assist in the sharing of expertise in leading nurse education, globally. Patrick currently sits on the executive of GANES, as one of three members representing Australia and New Zealand.

ASTHMA: NOT A SIGN OF OLD AGE

Older people and their GPs are not recognising the risks of asthma among the over 65s. Many saw asthma symptoms “more as a nuisance, [a sign of] getting old” despite the high rate of asthma-attributed deaths for this age group. These were the findings of a study published in the August issue of the Health Promotion Journal of Australia.

Kelly Andrews (pictured) and Sandra Jones from the Centre for Health Initiatives talked to older adults and health professionals on their knowledge of asthma and asthma diagnosis. Participants talked of asthma being a ‘young person’s disease’ and did not understand the risks of asthma in relation
A health professional remarked: “We aren’t really good at identifying it and there’s very few people over the age of 45 who have pure asthma, it’s always mixed … to sort out what is asthma … and what is lifestyle related is really very difficult.”

Ms Andrews said more support and information should be available. Other research has found that more than one-third of a sample of adults aged 55 and over had undiagnosed asthma. “Increased knowledge and understanding is needed to make older adults aware that asthma could be a reason for their symptoms,” she said. “In doing this, consideration must also be given to the needs of health professionals to help them do their job well.”

These findings were published in the August edition of the Health Promotion Journal of Australia, and emerge from research being conducted by the Centre for Health Initiatives with the Asthma Foundation through an ARC Linkage Grant.

ADOLESCENT SUN PROTECTION

The Centre for Health Initiatives, via an ARC linkage grant with Cancer Council NSW, have been pilot testing in the month of September a measurement instrument of adolescent sun related behaviours.

The UniAdvice Year 12 Information Evenings provided a great opportunity for the research team to access their target market, young people, to complete the survey. Along with participation from a number of schools in the Illawarra area, over 500 surveys were completed in the pilot study. Results from the pilot are currently being analysed by the research team, with the final instrument being used to evaluate a social marketing program targeting improved sun protection of adolescents commencing in December 2009.

The social marketing campaign will target various regions of NSW over the summer of 2009/10, with initial results of the study expected in May 2010.

TRIPLE SYMPOSIA DISCUSS LATEST RESEARCH ON NOVEL MATERIALS

China’s Fudan University and the University of Wollongong recently held a joint symposium in Shanghai, China.

It was the 5th International Union of Pure and Applied Chemistry (IUPAC) international symposium on novel materials and their synthesis, together with the 19th international symposium on fine chemistry and functional polymers and the 3rd symposium on power sources for energy storage and their key materials.

Co-chairmen, Professor Yu-Ping Wu from Fudan University and Associate Professor Guoxiu Wang from UOW invited more than 400 participants to attend these international joint symposia. This included 300 international distinguished guests and over 20 representatives of industries from more than 30 different countries.

Among these were UOW’s plenary speaker Institute of Superconducting and Electronic Materials (ISEM) Director, Professor Shixue Dou; along with keynote speaker Professor Xiaolin Wang and PhD student Hao Liu also from ISEM. Associate Professor Guoxiu Wang also gave the opening address and a keynote speech.

The Nobel Prize Laureate in Chemistry 1988, Professor Robert Huber, gave a plenary speech with the title “Proteins and their Structures at the Interface of Physics, Chemistry and Biology”.

ADVANCED COMMUNICATION METHODS FOR INTEGRATED TRANSPORT APPLICATIONS

An ongoing collaboration between A/Professor Rodney Clarke, School of Management and Marketing at the University of Wollongong, and Director of the Centre for Applied Systems Research (CASR), and Per Echeverri of CTF (a multidisciplinary research center at Karlstad University) and SAMOT (a Transport Research Group) is producing new communication methods for use in travel analysis. Drs. Clarke and Echeverri have been aware of each others work for some time but it was only possible to start up a research partnership late last year. Dr. Echeverri visited CASR in late 2008 and now CTF is hosting Dr. Clarke as a Guest Researcher for three weeks.

Dr. Clarke works in a broad range of applied systems using communication theory to understand the complex relationship between users, clients and customers, and the manual or technology assisted systems in which they find themselves enmeshed. Of particular interest are communication resources that are used for making references to service attributes and environments and also to those resources used for eliciting knowledge and experiences from service participants. This type of communication approach is a natural fit with Dr. Echeverri’s work into video methodologies for representing the processual aspects of services. These communication resources will form the basis for new travel service design methods. It is also likely that these new methods can also be applicable to more traditional interests, for example operations management and manufacturing, where sequences of action are triggered by or trigger communication including but not limited to service encounters.

Dr. Clarke’s involvement in Swedish information systems dates from the early 1990s, but culminated in him being awarded a Docent i Informatik from Karlstad University in 2007, an unusual distinction for non-Swedish academics. Karlstad University and the University of Wollongong have had a long history of strategic agreements dating from the mid-1990s in a range of disciplines including information systems, computer science, the creative industries, and now business administration and service science.
In September 2009, Dr Helen Caple (English Language and Linguistics) delivered a workshop on visual storytelling to ABC journalists who are working in the Continuous News Centre at the ABC in Ultimo. The workshop is the culmination of a 2-year ARC Linkage Project between the ABC and the University of Sydney (USYD), in which senior management, state editors and ABC trainers and entry-level journalists have been interviewed regarding their views on their readiness for multiplatform journalism. During this time, how best to incorporate visual images into their online news bulletins has been identified as an urgent training need and this workshop aimed to address this need. The 4-hr workshop was designed by Helen Caple, under the direction of CI Assoc Prof Anne Dunn, Acting Dean of the Faculty of Arts at USYD.

Evaluation of the workshop immediately after the session, along with feedback from News editors and managers, has demonstrated the resounding success of the workshop, which will now be incorporated into the training of ABC journalists who have little experience with visual storytelling. The workshop will be rolled out nationally to all ABC centres, where journalists who traditionally specialised in one media format (especially radio) will be re-trained in the art of telling compelling news stories through visual images. A paper on the project will also be presented by Helen and Anne at the Journalism Education Association Australia (JEAA) Conference in Perth in early December.

A two-hour radio series, ‘Marrying Out’, made by UOW Journalism lecturer Siobhan McHugh, aired on the Hindsight history program on ABC Radio National in October. The series explores the family conflict caused by Catholic-Protestant marriage in premulticultural Australia (1920s-'60s). It is based on 50 oral history interviews conducted by Siobhan, a DCA (Doctorate of Creative Arts) candidate. Series music was composed by Dr Thomas Fitzgerald, a DCA graduate of UOW, supported by a URC small grant. The series attracted widespread interest from ABC listeners and was the subject of an hour-long talkback on ABC’s ‘Life Matters’ program. Siobhan also delivered a lecture on sectarianism and religious bigotry in Australia at the Freilich Foundation Summer School at the ANU Humanities Research Centre this year. ‘Marrying Out’ can be podcast on http://www.abc.net.au/rn/hindsight

On 25 November, the Prime Minister, Kevin Rudd, announced recipients of the Prime Minister’s Australia Asia Endeavour Award, including UOW PhD student Matthew Griffith. Mathew is one of 20 postgraduate students from across Australia to have been awarded $63,500 to undertake an international research, study and internship experience in Japan. He will be using this opportunity to develop his research in Nanotechnology, applied in solar energy at the Intelligent Polymer Research Institute at his host University in Japan, Shinshu University.

The prestigious Prime Minister’s Australia Asia Endeavour Awards provide scholarships for the ‘best and brightest’ university students from Australia and Asia. They provide the unique opportunity for postgraduates and undergraduates to undertake not only international study and research, but also internships or work placements. The Awards aim to build deep and enduring education and professional
linkages between Australia and Asia. They also provide an opportunity for Australian universities and the Australian Government to work in partnership to identify and reward high calibre scholars. Read more: http://www.pm.gov.au/node/6356

KOREAN CONSUL GENERAL VISIT MARKS GROWING COLLABORATION BETWEEN UOW AND KOREA

A delegation from Korea visited the University on November 23-24 with a view to exploring new collaborative opportunities linked to the development of the AIIM Processing & Devices Facility under construction at the Innovation Campus.

The delegation included Korean Consul General, Woong Nam Kim, who was officially welcomed to UOW by (from left) IPRI Director Professor Gordon Wallace, Deputy Vice-Chancellor (Research) Professor Judy Raper and Vice-Chancellor Professor Gerard Sutton.

Woong Nam Kim, who was officially welcomed to UOW by Vice-Chancellor, Professor Gerard Sutton, Deputy Vice-Chancellor (Research) Prof Judy Raper and IPRI Director Prof Gordon Wallace. Other delegates included Korean university representatives and Koreans from various commercial outlets.


SOLAR CELLS FORUM TRIGGERS ROBUST DEBATE

A forum being held at the Innovation Campus over 16 and 17 November by IPRI in conjunction with ACES involves international experts in the area of solar energy research coming together for robust debate on the science behind the research. Forum participants are discussing the scientific challenges to make solar power an even more attractive and efficient proposition. The forum is entitled “Challenges in Solar Cell Characterisation: Theory, Spectroscopy and Devices”. Researchers have made recent inroads to the harvesting of sunlight for next-generation solar cells, a step closer to emulating photosynthesis as in nature. This research involves dye-sensitised solar cells, in which a photosensitive pigment or dye is attached to a large surface area inorganic semiconductor (typically titanium dioxide), likened to photosynthetic structures. Read more: http://media.uow.edu.au/news/UOW069351.html

UOW HOSTS THREE-DAY INTERNATIONAL SYMPOSIUM ON RENEWABLE ENERGY STORAGE

Global warming and climate change represent a major challenge facing humanity today. It is now well recognised that the burning of fossil fuels is seriously threatening the planet.

The development of renewable energy storage and conversion technologies will play a pivotal role in reducing greenhouse gas emissions.

In light of this, UOW hosted a three-day “International Symposium on Renewable Energy Storage and Conversion Technologies” from 18-20 November at its Innovation Campus.

Key organizer, Associate Professor Guoxiu Wang of the University of Wollongong invited more than 100 guests, including 50 international and national speakers and some guests from the industries to attend this significant symposium. Speakers are attending from China, USA, Korea, Japan, Canada, Singapore and from universities across Australia.

Some of the topics to be discussed include: Advanced primary and secondary batteries, fuel cell technologies, hydrogen storage materials, thermoelectric and other renewable energies and electrochemical and solid-state supercapacitors.

The focus of the symposium is on the creation of technology networks and technical road maps that will serve as foundations for the research and development of the state-of-the-art in renewable energy applications.

Sponsors for this include the UOW Research Council, UOW Energy Futures Network, ISEM, ACES, WCU Centre for Next Generation Battery, Korea and Innovation campus.
More information about available Higher Degree Research scholarships


ARC FUNDED PHD SCHOLARSHIP IN ORGANIC CHEMISTRY

A PhD scholarship funded by an Australian Research Council Discovery Grant is available to Australian Citizens, New Zealand citizens and Australian Permanent Residents. Project: Total synthesis of bioactive alkaloids and analogues for structure validation and biological screening.

SMART INFRASTRUCTURE MODELLING (WITHIN THE SMART FACILITY AT UOW)

These awards are tenable within the SMART Infrastructure Facility at the University of Wollongong and are available to both Australian and International applicants. It is envisaged that successful applicants will start their studies in Spring session 2010. The Vice Chancellor has approved 5 new SMART Infrastructure scholarships for 2010.

MATERIALS RESEARCH (ENERGY OR HEALTH) AT THE INNOVATION CAMPUS (IPRI/ACES) - PHD OPPORTUNITIES

At the Intelligent Polymer Research Institute (IPRI) opportunities exist for students to become part of a unique research training environment to carry out research on materials.

EQUITY SCHOLARSHIPS

Two types of Equity scholarships have been introduced for 2010 – 2 for Indigenous applicants and 2 for Women in non traditional areas (Engineering and Informatics).

(MOET-VID) VIETNAMESE DOCTORAL STUDENTS (JOINT SCHOLARSHIPS PROGRAM)

Five to ten awarded annually to students from Vietnam wishing to enrol in a Doctorate at UOW. UOW will award International Postgraduate Tuition Awards (IPTA) to all successful MOET-VID scholarship awardees.

CHINA SCHOLARSHIP COUNCIL-UOW (JOINT POSTGRADUATE SCHOLARSHIP PROGRAM)

Ten to fifteen per year awarded by CSC to University of Wollongong (UOW). UOW will award International Postgraduate Tuition Awards (IPTA) to all successful CSC scholarship awardees. Unsuccessful CSC applicants will, if eligible, be considered for a UPA in the next round.

COMMERCIALISATION TRAINING SCHEME SCHOLARSHIP (CTS) - 2010 APPLICATIONS NOW OPEN

For Australian Postgraduate Awards (APA) and University Postgraduate Awards (UPA) UPA commencing in 2010 there will be an Autumn and Spring round.
IEEE CONFERENCE TO BE HOSTED IN 2010 AT UOW

The School of Information Systems and Technology will host the next International Symposium on Technology and Society (ISTAS) in 2010. Dr Holly Tootell and Dr Katina Michael from the Faculty of Informatics will take on the roles of Organising Committee Chair, and Program Committee Chair. The conference will have the theme: “The Social Implications of Emerging Technologies” and will attract participants from an estimated 15 countries worldwide. The conference will be held at the UOW between 7th-9th of June 2010. Among the keynote and plenary addresses that have already been secured are: Professor John Weckert, Professor Kevin Warwick, and Mr Amal Graafstra. The conference will be multidisciplinary and again, Holly and Katina encourage Wollongong academics to submit full papers for review. The five tracks include: Automatic Identification, Location Based Services, Social Networking, Nanotechnology, Privacy Security & Human Rights. Select papers from the conference will be published in a special issue of the IEEE Technology and Society Magazine, with other papers appearing in a special issue of the Journal of Cases in Information Technology, and the Journal of Theoretical and Applied Electronic Commerce Research.
Abstract submission has past. Enquiries to katina@uow.edu.au.

GENDER AND OCCUPATIONS AND INTERVENTIONS IN THE ASIA PACIFIC

CAPTRANS recently held a workshop on ‘Gender and Occupations and Interventions in the Asia Pacific, 1945-2009’. The workshop brought together for the first time established scholars, ECRs, postgraduates and community members and activists to discuss issues related to gender, occupation and intervention.
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 or are undergoing an intervention. Yet little is known about this gendered impact, in terms of both masculinities and femininities, either historically or in more contemporary times.

To ensure inclusion of your research news, event or service in the next issue of RAID (due for publication early February 2010, please e-mail details to t by 25th January 2010.

Have an enjoyable and safe holiday … Merry Christmas and Happy New Year
From Tania and Vicky…