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

For inclusions in the next issue (due for publication early/mid February), please e-mail details before 24th January to lhawes@uow.edu.au or vwallace@uow.edu.au
UOW Researchers Awarded ARC Future Fellowships

Four highly qualified mid career UOW researchers have been awarded $2.8M under the Australian Research Council (ARC) Future Fellowship Scheme, which aims to attract and retain Australia’s best and brightest mid-career researchers.

The successful UOW Fellows are:

• Associate Prof. Joseph Ciarrochi (Faculty of Health & Behavioural Science): “A longitudinal study into the development of personal vulnerabilities and well-being in adolescence”

• Associate Prof. Clive H Schofield (Faculty of Law): “The Limits of maritime jurisdiction: overcoming uncertainties and safeguarding Australia’s interests”

• Dr Aidan D Sims (Faculty of Informatics): “Operator algebras as models for dynamics and geometry”

• Dr Gerrit D van den Bergh (Faculty of Science): “Size matters: elephantoid dispersal, evolution, paleoecology and extinction in Asia”
The Fellowship offers funding of between $126,638 and $179,958 a year over a four year period for each researcher. In addition, UOW will receive $50,000 a year for each project, to support related infrastructure, equipment and travel costs as incentives for the researchers to continue their ground breaking research in Australia.


### SUCCESSFUL ARC DISCOVERY PROJECTS 2011 (UOW AS ADMINISTERING INSTITUTION)

<table>
<thead>
<tr>
<th>Chief Investigator</th>
<th>Other Investigators</th>
<th>Project Title</th>
<th>Total ARC $</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prof Raymond Chambers</td>
<td>none</td>
<td>A likelihood-based approach to combined surveys inference</td>
<td>255,000</td>
</tr>
<tr>
<td>A/Prof Joseph Ciarrochi</td>
<td>Heaven P, Jackson C, Johnstone S, Leeson P, Caltabiano NJ</td>
<td>A longitudinal study into the development of personal vulnerabilities and well-being in adolescence</td>
<td>263,099</td>
</tr>
<tr>
<td>Dr Tracey Clarke</td>
<td>Wagner P, Mozer A, Gordon KC, Mori S</td>
<td>Porphyrin arrays - Light Harvesting in three dimensions</td>
<td>360,000</td>
</tr>
<tr>
<td>Dr Georgine Clarsen</td>
<td>none</td>
<td>Mobile modernities: ‘Around-Australia’ automobile journeys, 1900-1955</td>
<td>97,338</td>
</tr>
<tr>
<td>Prof Dr Sara Dolnicar</td>
<td>Leisch F, Gruen B</td>
<td>Market segmentation methodology: attacking the ‘Too Hard’ basket</td>
<td>1,460,000</td>
</tr>
<tr>
<td>Dr Karin Garrety</td>
<td>McLoughlin I, Yu P, Dalley A, Wilson RG</td>
<td>Generating insights for the future: A retrospective, comparative study of attempts to implement large-scale electronic health record systems</td>
<td>90,000</td>
</tr>
<tr>
<td>Prof David W Griffith</td>
<td>Wennberg PO, Mikaloff Fletcher SE</td>
<td>Atmospheric composition and climate change: a southern hemisphere perspective</td>
<td>455,000</td>
</tr>
<tr>
<td>Dr Markus Hagenbuchner</td>
<td>Tsoi AC, Gori M, Sperduti A, Scarselli F</td>
<td>Modelling graph-of-graphs for solving document categorisation problems</td>
<td>285,000</td>
</tr>
<tr>
<td>Dr Valerie Hanwood</td>
<td>none</td>
<td>Imagining university education: the perspectives of young people impacted by low socio-economic status and disengagement from school</td>
<td>50,000</td>
</tr>
<tr>
<td>Dr Michael Higgins</td>
<td>none</td>
<td>Synergistic nanostimulation of nerve cells using atomic force microscopy technology</td>
<td>610,000</td>
</tr>
<tr>
<td>Dr Christopher Magee</td>
<td>Caputi P, Iverson D</td>
<td>Short sleep as a cause of obesity: a longitudinal examination of Australian children and adults</td>
<td>120,000</td>
</tr>
<tr>
<td>Dr Julia Martinez</td>
<td>Haskins VK, Steel FM, Lowrie CK</td>
<td>A transcolonial history of domestic service in the Asia-Pacific</td>
<td>125,000</td>
</tr>
<tr>
<td>Dr Attila Mozer</td>
<td>Sariciftci NS, Gordon K</td>
<td>Next generation excitonic solar cells using advanced charge generation concepts: setting the new efficiency benchmark</td>
<td>773,000</td>
</tr>
<tr>
<td>A/Prof Yi Mu</td>
<td>Susilo W, Varadharajan V</td>
<td>Achieving security and privacy in radio frequency identification (RFID) with lightweight security technologies</td>
<td>210,000</td>
</tr>
<tr>
<td>Dr Clare Murphy (nee Paton-Walsh)</td>
<td>Griffith D, Emmons L, Edwards D, Burrows J</td>
<td>Tropospheric ozone and air quality in Australia</td>
<td>420,000</td>
</tr>
<tr>
<td>A/Prof Aaron Oakley</td>
<td>Beck JL, Kelso MJ</td>
<td>Fragment-based screening approaches for new antibiotics directed against the bacterial sliding clamp</td>
<td>300,000</td>
</tr>
<tr>
<td>Prof Mats M Olsson</td>
<td>Wapstra E</td>
<td>Lamarkian lizards: novel integration of telomere epigenetics, free radicals and innate antioxidants in condition-dependant sexual signal evolution.</td>
<td>350,000</td>
</tr>
<tr>
<td>A/Prof Alexey V Pan</td>
<td>Shcherbakova OV, Zhou S, Nevirkovets IP, Muller KH, Johansen TH, Hilgenkamp H</td>
<td>New approach to control grain boundary behaviour in superconducting thin films</td>
<td>210,000</td>
</tr>
<tr>
<td>Dr David Pask</td>
<td>none</td>
<td>Higher dimensional methods for algebras and dynamical systems</td>
<td>300,000</td>
</tr>
<tr>
<td>Prof Sharon Robinson</td>
<td>Keller P, Lucieer A, Hodgson D, Wanek W, Hua Q, Griffiths H</td>
<td>Mapping Antarctic climate change in space and time using mosses as biological proxies</td>
<td>690,000</td>
</tr>
<tr>
<td>Prof Anatoly Rozenfeld</td>
<td>Petasecca M, Carolan MG, Guattelli S, Metcalfe PE, Jackson M</td>
<td>Unified platform for real time QA in radiation therapy in brachytherapy based on high resolution silicon detectors (Magic Plate)</td>
<td>300,000</td>
</tr>
<tr>
<td>Prof Geoffrey Spinks</td>
<td>Kim SJ</td>
<td>Mechanical advantage: biomimetic artificial muscles for micro-machines</td>
<td>800,000</td>
</tr>
<tr>
<td>Prof Kiet Tieu</td>
<td>Zhu HT, Kosasih P, Lu Cheng</td>
<td>Lubrication mechanics in hot strip rolling</td>
<td>345,000</td>
</tr>
<tr>
<td>Prof Matt Wand</td>
<td>Ormerod J, Wang YM</td>
<td>Fast approximate inference methods for flexible regression</td>
<td>330,000</td>
</tr>
<tr>
<td>Dr Jia Z Wang</td>
<td>Chou S, Li H, Wu Yuping, Ozawa K</td>
<td>A novel hybrid electrochemical energy system for both high energy and high power</td>
<td>270,000</td>
</tr>
</tbody>
</table>

Recent ARC Grant Outcomes

The University of Wollongong (UOW) has been awarded $10.67 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. Of the 25 successful UOW Discovery Projects (DP) and three Linkage Projects (LP) to be funded in 2011, excellent results were achieved across most UOW faculties and areas of Research Strength.
Mood are more likely to agree, Australian respondents are more likely to find the stimuli to be true and unbiased measurements. People who are in a good mood or state of mind may be more biased in their responses, whether we are testing for personality differences or assessing competence in students. And, as a scientist, I feel the tension of the need to use instruments to measure the things I study. Even the simplest instruments they use, like thermometers, are able to provide a true and correct measurement. Scientists are in the fortunate position to choose what tools to use, be it tests or instruments. The mood or state of mind of the research participants can influence the measurement technique. Sometimes, biases can be introduced, especially when social sciences this is not the case. Most of the measurements we take, for example responses we get from people in surveys, do not lead to true and unbiased measurements. People who are in a good mood are more likely to agree, Australian respondents are more

Grant Proposal: $1.46 Million
Dr. Sara Dolnicar, Director of the Institute for Innovation in Business and Social Research was awarded $1.46 million for her project on improving market segmentation methodology: "Businesses embrace market segmentation to identify and target clients. However, poor segmentation analysis leads to poor segment choice. Our project develops tools to improve segmentation analysis. We will test the resulting toolbox in tourism, foster care and climate change mitigating behaviour. And hopefully, at the end of it, a book that will help businesses avoid making poor segmentation analysis."

As part of the grant, Sara was also awarded a prestigious Queen Elizabeth II (QEII) Fellowship that provides opportunities for established researchers to undertake research of national and international significance. QEII encourages research in Australia by postdoctoral graduates of exceptional promise and proven capacity for original work.

No QEII has ever been awarded to a marketing researcher since the ARC Discovery Grant Scheme began, and this grant is also the single highest amount awarded to any of the 922 grant proposals that were funded under the Scheme in 2010.

Profile of a Successful ARC Fellowship: Sara Dolnicar

The recent announcement of the ARC grants saw UOW awarded 25 Discovery Projects and three Linkage Project Scheme grants worth over 10 million dollars. Professor Sara Dolnicar from the Faculty of Commerce and Director of the Institute for Innovation in Business and Social Research was awarded $1.46 million for her project on improving market segmentation methodology: "Businesses embrace market segmentation to identify and target clients. However, poor segmentation analysis leads to poor segment choice. Our project develops tools to improve segmentation analysis. We will test the resulting toolbox in tourism, foster care and climate change mitigating behaviour. And hopefully, at the end of it, a book that will help businesses avoid making poor segmentation analysis."

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NSW Environmental Trust

Congratulations to the following successful UOW applicants:

- Prof Ross Bradstock has been awarded $196,619 for the project “Climate change impacts on bushfire fuels” with the NSW Department of Climate Change and Water and the NSW Rural Fire Service.

- Dr Dianne Jolley has received $79,000 for her project “A rapid pre-screening technique for bioavailable metals in sediments” to be undertaken with the CSIRO.

UPCOMING FUNDING OPPORTUNITIES:

IMB Community Foundation

The Foundation is calling for applications for funding in 2011. The IMB Community Foundation was established in 1999 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: http://www.imb.com.au/community-community-foundation.html. Applications close on 16 December.

AUSTRALIAN LEARNING & TEACHING (ALTC) GRANTS - 2011

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.

There are two funding rounds for each scheme in 2011: the first closes on 7 April and the second 6 October.

> 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.

> Innovation and Development Grants Program – Featuring Professional Development for Senior Academic Staff

This program responds to priorities emanating from the ALTC’s designated responsibilities and priorities determined by the ALTC Board.

Support for grant applicants:

Brondalie Martin, Grants and Awards Officer, Academic Development & Learning Design
brond@uow.edu.au (for guidance on developing the grant application, initiated by a Notice of Intent to Apply).


Launch of the DataWise Project

On the 6th September the Deputy Vice Chancellor (Research), Professor Judy Raper, announced the launch of DataWise, a Strategic Project to improve the research data management infrastructure at UOW. The DataWise project is partly funded by the Australian Government through the Australian National Data Service (ANDS) and is a co-operative venture between the Research Services Office, the University Library and Information Technology Services (ITS).

The project aims to provide researchers with skills, knowledge and resources to develop best practice in the management of research data. By registering a research project, researchers will be able to gain access to secure data storage and other I.T. tools. There are a number of resources available online to assist researchers including Research Data Management Guidelines, Research Project Registration Form, Research Data Management Plan template and a Research Data Management Checklist. Please visit http://www.uow.edu.au/research/eresearch/datamanagement for more information. Advice is also available about any stage of the data curation continuum - from initial planning through to storage, discovery and reuse.

Over the coming months, staff from the Research Services Office will be visiting faculties to provide more detail about the DataWise project and to answer questions. Investigators on Australian Competitive Grants since 2005 will also be contacted individually to discuss opportunities for management of existing research data. This may include permanent storage, improving discoverability through Research Data Australia or making the data available to others. If you would like to make an appointment to discuss opportunities for better management of your research data, please email e-research@uow.edu.au or phone 02 4221 3938.

DataWise team: Elaine Gully, Matthew Perry and Carolyn Norris.
ERA 2012

The Minister for Innovation, Industry, Science and Research, the Hon Senator Kim Carr, announced on 25 October 2010 that another round of ERA is scheduled for 2012.

The latest ERA newsletter from the ARC states that the key reference dates (staff census date and research outputs reference periods, etc.) will move forward two years; however, the exact dates have not yet been confirmed by the ARC.

The website http://www.arc.gov.au/era/era_2012/era_2012.htm will be updated as soon as the dates are confirmed.

Review of the ERA 2010 Ranked Outlet Lists

The ranked journal and ranked conference lists form an integral part of the ERA evaluation process.

In preparation for the recently announced 2012 ERA round, the ARC will revise the ERA 2010 ranked journal and conference lists. This process will involve a public consultation period, followed by a review and finalisation phase supported by the peak bodies and other academic groups.

The ARC will release the journal and conference lists for public consultation in early 2011. The ARC will also be recruiting peak bodies and other academic groups to assist with the review of the feedback received and make recommendations regarding the final rankings and field of research assignments for the ERA 2012 evaluation.

The ranked outlet review will be undertaken in parallel to other ERA consultation processes.

Further information is available at https://intranet.uow.edu.au/raid/era or by contacting Ann Hollifield or Matt Perry in RSO (email: ahollifi@uow.edu.au / matthewp@uow.edu.au or phone: X4901 / X4795).

December Graduation

Congratulations to the 85 hDR students graduating at the December 2010 graduation ceremonies; 68 doctoral degrees will be conferred and 17 Masters – Research.

Totals for each faculty are as follows:
- Arts – 6;
- Commerce – 6;
- Creative Arts – 5;
- Education – 9;
- Engineering – 12;
- Health & Behavioural Science – 14;
- Informatics – 20;

Annual Progress Reports 2010

APRs were released on-line via SOLS to hDR students on 11th October 2010. Due Dates – to note:

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>6th Dec 2010</td>
<td>HDR candidate to complete Section 3 in response to supervisor comments/recommendation.</td>
</tr>
<tr>
<td>20th Dec 2010</td>
<td>Head of Postgraduate Studies to make recommendation and forward APR to Dean of Faculty.</td>
</tr>
<tr>
<td>21st Jan 2011</td>
<td>Dean to make final recommendation then return APR to the Research Student Centre.</td>
</tr>
<tr>
<td>1-28 Feb 2011</td>
<td>RSC process HDR re-enrolments, LOA requests, enrolment amendments etc for 2011</td>
</tr>
</tbody>
</table>

Please go to the following link for information regarding APR guidelines and process http://www.uow.edu.au/research/rsc/hdrhb/UOW008952.html

For further enquiries contact Christine Mason, Research Student Centre on Ext. 5672 or email cmosera@uow.edu.au

Enrolling & Re-enrolling

The Research Student Centre has begun enrolling, re-enrolling and processing hDR students for Autumn and Spring Session 2011. Re-enrolments and enrolment variations are only processed following a complete and satisfactory 2010 Annual Progress Report. Please ensure that all re-enrolments and variations (Leave of Absence, change of enrolment status etc) reach the Research Student Centre or go directly to the HDR Enrolment Officer – June Toussis. Requests for variations must be received by the census date of 31st March 2011 – junet@uow.edu.au together with supervisor support if submitting these requests separate to the Annual Progress Report. We also ask that, once enrolled, a student should check that all of their enrolment details are correct, if not correct please contact Research Student Centre by email above or phone 42 21 5453 immediately.

Graduations and AHEGS

Graduates from 2010 onwards will receive an Australian Higher Education Graduation (AHEG) Statement with their transcript and testamur, a new compulsory Commonwealth requirement. This document has been designed to assist with the portability and internationally legibility of the award and awarding institution. The Abstract provided to RSC when submitting the thesis will be used in the Australian Higher Education Graduation Statement.

New – Doctor of Philosophy (Integrated) – 4 Years

The PhD (Integrated) is a four-year research degree which integrates a traditional three-year PhD thesis with one-year of coursework, comprising generic research training and discipline-specific content into a single degree.
The coursework provides candidates with the opportunity to develop their research skills while allowing additional time to develop a detailed research topic, therefore providing greater certainty and better completion outcomes in the thesis. The coursework also allows candidates to take individual subjects in a specific discipline area, thereby providing a deeper level of content from which to draw potential research themes. International students intending to become university researchers and teachers in their home country will benefit from exposure to Australian teaching methods through the inclusion of these ‘taught’ coursework subjects.

For more information including entry requirements and course entry criteria, see this website: http://www.uow.edu.au/research/rsc/prospective/UOW086290.html

Orientation and Enrolment Day 2011

The HDR Student Orientation Day and Enrolment Day will be held on Wednesday, 23rd February commencing at 9.00 am in Building 20, Lecture Room 1. This year the Orientation will coincide with “O Week Festival” so that HDR students can participate in “O Week” celebrations.

2011 Endeavour Awards Success

Outgoing

UOW’s Mrs Hua Zhao, a second year Master of Engineering Research student, has been awarded one of 20 prestigious Prime Minister’s Australia Asia Endeavour Award valued at $63,500, for the ‘best and brightest’.

Mrs Zhao (supervised by A/Prof. Muhammad Hadi) will travel to Hong Kong Polytechnic University where she will continue her research in Engineering & Related Technologies for one year.

The UOW recipients of Endeavour Research Fellowships were:

A/Prof Weihsia Li
Faculty of Engineering staff member
School of Mechanical, Materials and Mechatronics
Host Institution the Hong Kong Uni of Science & Technology,

Ms Cassandra Smith (Faculty of Science) with Host Institution the Institute National de la Recherche Scientific (INRS) in Canada, where she will continue investigating Copper Toxicity to Marine Microalgae. She is currently in the first year of her PhD with Prof. Wilson and Dr Jolley.

Incoming

Incoming researchers to the University of Wollongong were awarded as Fellowships, Executive Awards and for PhD Students. Professor Indraratna will have 3 Postdoctoral Research Fellows from India, Iran and China, researching in the area of Geotechnical Engineering, while the Faculty of Creative Art’s Siobhan McHugh, will host an Iranian Dramatist and Radio Producer through the Endeavour Executive Award scheme.

UOW Academic staff who will be supervising incoming PhD recipients of the Endeavour awards from countries such as Sri Lanka, Iran & Bhutan are:

• Prof. Buddhima Indraratna (Engineering) hosting 2 students,
• Dr Mohan Chinnapan (Education) 1 student, and
• Dr Michael Flood (Arts) 1 student.

The Endeavour Awards aim to develop on-going educational, research and professional linkages between individuals, organisations and countries and contribute to Australia’s position as a high quality education and training provider, and a leader in research and innovation. More at: http://www.deewr.gov.au/International/EndeavourAwards/Pages/home.aspx

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Sydney Basin Commercialisation Group

UOW’s I&TT is active within the Sydney Basin Commercialisation Group (SBCG), a forum set up to showcase commercially relevant research opportunities from the 7 universities within the greater Sydney region.

Australasian Industrial Research Group (AIRG) Winter Conference

Elizabeth Eastland, Deon de Saldanha and Tamantha Stutchbury from the Innovation and Technology Transfer team recently attended the Australasian Industrial Research Group (AIRG) Winter Conference in Canberra. This conference was attended by representatives from industry and public sector research bodies. The theme of this conference was “The National Importance of Industrial R&D: Measuring and Communicating the Impact in Australasia”.

The AIRG’s role is to improve the quality of research management in Australia & New Zealand by organising activities which stimulate greater understanding of the effective management of research and development as a force to drive economic, industrial and social activities.

The conference provided the UOW team with an opportunity to network with various Industry based research groups and to gain a better understanding of how they might prefer to interact with universities. Companies presenting at the conference included Blue Scope Steel, Cochlear, Dairy Innovations, Nicta, & Resmed.

Sydney Basin Commercialisation Group

UOW’s I&TT is active within the Sydney Basin Commercialisation Group (SBCG), a forum set up to showcase commercially relevant research opportunities from the 7 universities within the greater Sydney region.
Centre for Environmental Risk Management of Bushfires

CRU has recently finalised negotiations with the NSW Rural Fire Service and the NSW Department of Environment, Climate Change and Water to continue their funding support for the Centre for Environmental Risk Management of Bushfires (CERMb), located within the Faculty of Science.

The NSW Rural Fire Service agreement is valued at $1.65M over 5 years and provides salary support for a research assistant and two research fellow positions. Three research themes will be pursued over the funding period with the overall objective of defining the most cost-effective options for bushfire risk mitigation and the extent to which these need to be adapted to suit the broad range of environments and human development patterns in NSW.

The agreement with the NSW Department of Environment, Climate Change and Water is valued at $1.025M over 5 years and covers the salary of the Director of the CERMb.

The research priorities to be explored under this collaboration include: climate change and fire regimes; determining approaches, effectiveness and impacts of fuel reduction and fire-fighting; fire impacts on water and air quality; aboriginal fire knowledge and fire impacts on cultural heritage; appropriate fire regimes for biodiversity conservation; improved understanding and prediction of fire incidence, behaviour and spread; and, determining the relationship between risk and fire management.

The Director of the CERMb, Professor Ross Bradstock (pictured) is extremely happy to have the continued support of both collaborating organisations, and looks forward to consolidating on the research initiated during the first 5 years of the Centre’s existence.


Bushcare

The Commercial Research Unit (CRU) staff are committed to managing the social and environmental impacts of our day-to-day work activities and are encouraged to participate in volunteer programs that assist our community and environment. Many staff are volunteers in a private capacity and all staff participate in the CRU team-based volunteer “Bushcare” program. The current Bushcare project is close to the UOW at Spearing Reserve where CRU staff spend a couple of hours each month removing invasive weed species and replanting with natives. This is seen as a good way to support team development, work/life balance and to assist our community. For more information contact the Bushcare co-ordinator Brett Weeden bweeden@uow.edu.au

Commercial Research Officer Position

The Commercial Research Unit would like to welcome Karen McRae to our team. Karen is currently acting in the Commercial Research Officer position and is responsible for negotiating fast tracked commercial research agreements up to a value of $100K. Karen was previously a Professional Officer in the Faculty of Education and has also held the Ethics Officer position in Research Services. Karen can be contacted on x4817 or via email (kmcrae@uow.edu.au) if you have any questions relating to commercial research at UOW and the fast track contract process.
Dr Andrew Jenner

The Illawarra Health and Medical Research Institute welcomes Dr Andrew Jenner, who has joined them from the National University of Singapore. Dr Jenner obtained his PhD in Biochemical Toxicology from the School of Pharmacy, London in 1992. After gaining a European Science Foundation Research Fellowship to study free radical formation using EPR at Vrije University, Amsterdam he then joined the laboratory of Professor Barry Halliwell at Kings College London. Here he developed methods to quantify biomarkers of oxidative damage to examine mechanisms of free radical attack to lipid, DNA and protein and study their role in degenerative disease. He joined the National University of Singapore in 2002 as an Assistant Professor at the Department of Biochemistry and part of the Neurobiology and Ageing research program. Dr Jenner’s specific research themes are:

- Lipidomics – Cholesterol metabolism and lipid oxidation in disease (particularly neurodegeneration)
- Diet dependent mechanisms of colon damage and protection.
- Influence of dietary phenolic metabolism in promoting health
- Development of reliable analytical techniques for measuring damage biomarkers and antioxidants in biological samples.

He can be contacted on ajenner@uow.edu.au

NEW RESEARCH STAFF

Are you a new Researcher to the UOW?

Tell us about yourself, the research you do, who you collaborate with and what you hope to achieve here at the UOW. Contact lhawes@uow.edu.au for the next issue of the Research newsletter.
A team from the ARC Centre of Excellence for Electromaterials Science and the Soft Materials Group (School of Chemistry) has had their research on a biomaterial selected as the cover for of the Journal of Materials Chemistry. Their paper “Conducting gel-fibers based on carrageenan, chitosan and carbon nanotubes” was selected for the cover of issue 37 and details their approach to producing carbon nanotube-gel fibers by combining polyelectrolyte complexation of two oppositely charged biopolymers with continuous flow spinning. The UOW team comprising of Alberto Granero, Dr Joe Razal, Prof Gordon Wallace and A/Prof Marc in het Panhuis showed that their carbon nanotube-gel fibers produced using the commonly used food additive, gellan gum, resulted in fascinating biomaterials.

Sid Harta Publishers has published a new book by Honorary Research Fellow Dr Christine de Matos and Noel Huggett titled Love under Occupation: A Personal Journey through War, Marriage and White Australia ($24.95).

Noel approached Christine in 2006 to help him to write about his experiences as an Australian soldier who married a Japanese woman, Ruth Reiko Yamamoto, in the wake of World War II and during the Allied Occupation of Japan. The resulting book tells the story of Noel and Ruth’s courtship under the disapproving eyes of the Australian military and the obstructions they had to overcome to get married and have a family, all within the context of the white Australia policy and issues of citizenship. The book is aimed at a general rather than academic audience, but can still be used by the latter to demonstrate the impact of government and military policies on individuals.

The initial reviews in target market publications have been good, the Armidale Advertiser picking it as their Book of the Week, stating that: “This is a true but chilling story that really does need to be shared. Hopefully, the more stories told about discrimination and racism, the more convinced society will be that such undemocratic laws should never be allowed in Australia ever again.”

Dr Samuel Fosso Wamba at the Faculty of Informatics, and member of the Institute for Innovation in Business and Social Research (IIbSoR) has recently guest edited an issue of the Pacific Asia Journal of the Association for Information Systems (Volume 2, No.2, 2010) and the Business Process Management Journal (vol. 16, issue 6 2010). Entitled “RFID Applications and Potentials” and “Organizational and Business Impacts of RFID” respectively, Samuel co-edited the first journal with Dr Joseph Barjis from the Delft University of Technology in the Netherlands, and the other with Dr Barjis and Dr Akemi Takeoka Chatfield at UOW.

The Pacific Asia Journal of the Association for Information Systems is a quarterly journal that publishes high-quality research papers in information systems. It covers organisational and technical issues, with particular interests in topics pertaining to the Asia Pacific region.

The Business Process Management Journal examines how business processes are integrated and managed for organisational efficiency and effectiveness.

Associate Professor James Reveley (School of Management and Marketing, Faculty of Commerce) has just published an interdisciplinary paper in the A-list journal Australian Economic History Review – “Using Autobiographies in Business History: A Narratological Analysis of Jules Joubert’s Shavings and Scrapes”. The paper is a first attempt (in English, at least) to apply the narratological method of textual analysis to autobiography within business history, focusing on the issues of identity and storytelling - the importance of which the Nobel Prize-winning economist George A. Akerlof has recently highlighted. Lingering concern about the subjectivity of life writing prevents wider use of autobiographies within business history. This article seeks to allay such concern by applying the narratological method to the colonial entrepreneur Jules Joubert’s autobiography, Shavings and Scrapes. Joubert’s narrative identity is as an ‘adventurer’. This identity shored up his self-image and was used by him to enhance his reputation. Narratology shows that an autobiography can stabilise and publicise the colonial entrepreneur’s narrative identity, thereby benefiting their business career.
Radio lecturer Siobhan McHugh recently won a gold medal in her category in the 2010 New York Radio Awards. The prestigious awards – now in their 53rd year – attract entries from radio stations, networks and independent producers from over 30 countries and are judged by a panel of international industry experts.

Siobhan said she was “utterly gobsmacked and delighted” to hear that she had been awarded a gold and bronze medal across the two categories (Religion and History) she had entered for her documentary on mixed marriages in Australia, Marrying Out.

Marrying Out, developed in conjunction with ABC’s Radio National and broadcast last October, took more than three years to complete. Ms McHugh spent much of that time gathering compelling personal stories of mixed marriage from the 1920s to the 1960s as part of her Doctor of Creative Arts at UOW. A recalcitrant Irish Catholic, she wanted to explore a time when Australia was polarised between Protestants and Catholics. She also sought to highlight the importance of presenting oral history on radio rather than in print form, in order to convey the emotional impact of history as much as the facts. “The power and intimacy of radio can transcend the printed page. My programs are a blend of history, art and journalism – they combine rigorous research with artistic interpretation."

Ms McHugh said that her series was important because Irish Catholics were Australia’s first ethnic minority, comprising about a quarter of the population. She said until large-scale immigration after WWII, non-indigenous Australia basically consisted of Catholics and Protestants.


Visiting astronaut pays tribute to UOW’s critical space medical research

UOW’s contribution to the safety of future space missions received strong praise recently from visiting US astronaut Dr Leroy Chiao.

The astronaut paid a special visit to UOW on the 22nd September to present a public lecture entitled “The Spaceflight Experience and Biomedical Issues for Long Duration Missions”. His visit was hosted by the Director of the Faculty of Engineering’s Centre for Medical Radiation Physics (CMRP), Professor Anatoly Rosenfeld. Dr Chiao was in Wollongong as part of the project which involves

Dr Leroy Chiao with the Director of UOW’s Centre for Medical Radiation Physics, Professor Anatoly Rosenfeld (left) and Director of the Science Centre, Glen Moore.

CMRP’s development of radiation dosimeter instrumentation for manned space missions. His lecture outlined how human spaceflights were a grand adventure -- but not without their risks. And among the risks were those dealing with space biomedicine. Dr Chiao said biomedical issues would become more important in the future, as humans venture on longer missions, beyond Low Earth Orbit. He highlighted that the future of space flights was uncertain in the United States at present but said the planet Mars was certainly high on the agenda as the next place to go. (break out par?)

The CMRP is part of a team that has previously won a prestigious research grant from the US National Space Biomedical Research Institute - NASA. The research work involves the development of space qualified instrumentation for assessment of radiobiological effects on humans during long-term space missions.

Dennis Black, the Australian Coal Association Research Program (ACARP) scholarship holder, working on mine gases and outburst control for his PhD, has recently been awarded the Royal Society of NSW scholarship for 2010.

Dennis is a mining engineer with industry experience spanning some 19 years. He was Manager Gas and Ventilation with BHP Billiton - Illawarra Coal Holdings for three years prior to joining UOW to conduct his current PhD studies on Mine Gases and Outburst Control. Dennis was instrumental in assisting to establish a BHPB-Illawarra Coal Holdings research fund to support coal mine gas and outburst research which led to the establishment of the current and active Coal Mine Gas Research Group at the school of CME Engineering, under direct supervision of Associate Professor Naj Aziz. Dennis left BHP Billiton in July 2008 to take up the prestigious ACARP full-time scholarship at the University of Wollongong and his current thesis project on “Factors affecting the drainage of gas from coal and methods of improving drainage effectiveness”.

Together with his supervisor, Dennis has published more than a dozen papers and represented the UOW Gas Research Group in a number of National and International Conferences, in the United States, Turkey, Canada and India. He is a regular presenter at the Illawarra Coal Outburst seminars which are held twice a year. Many of Dennis’ publications and presentations are accessible via http://research.uow.edu.au/coal and http://ro.uow.edu.au/coal.

Dennis is a member of the organising committee of the Coal Operators’ Conference which is held annually at UOW. He will be making a presentation at the Royal Society’s annual dinner in Sydney on the 1st December.
UOW Researchers Awarded Funds for Community Engagement Projects

At the recent Australian Conference of Economists (ACE10), Peter Siminski was awarded the prize for the best paper published in the Economic Record in 2009. The Economic Record is regarded as Australia’s premier economics journal. The independent expert panel from UNSW, UWA and ANU judged all papers published in 2009 using the criteria: “relevance and importance; originality in the use of data and theory; elegance of method and exposition; and the strength of policy conclusions”. The article is: Siminski, Peter. (2009), ‘A Welfare Analysis of the Commonwealth Seniors Health Card’, The Economic Record, vol. 85, no. 269, pp. 164-180.

James Bishop (a 2009 honours graduate and university medallist, whose thesis was supervised by Joan Rodgers & Peter Siminski) was awarded the Junior Researcher Prize for the best conference paper (all authors aged under 35 years) at the recent 32nd Australian Conference of Health Economists. His paper ‘The effect of maternal employment on youth overweight and obesity’ was drawn from his honours thesis.

Socially Responsible Marketing calls for collaboration

The Centre for Research in Socially Responsible Marketing (CRSRM) has been launched within the Faculty of Commerce of UOW, aligned with the Faculty’s vision to inspire socially innovative commerce.

“The Centre evolved from the Centre for Social Marketing and Non-Profit Marketing, and will focus its research efforts primarily on social marketing, corporate social responsibility, and sustainability, and cover the public, private and non-profit sectors” said Dr Shaun Powell, Associate Head of School (Marketing). Dr Alan Pomering and A/Prof. Gary Noble co-direct the centre. The central aim of the centre is to conduct research on the role of marketing in achieving positive outcomes for society in ethical, social and environment contexts. “We are currently seeking organisations that wish to collaborate with the centre on such projects” said Dr Pomering. More details about the Centre for Research in Socially Responsible Marketing can be found via http://www.uow.edu.au/commerce/smm/ mark/ UOW080412.html For more information or expression of interest for future collaboration with the centre please contact Dr Alan Pomering alanp@uow.edu.au.

Commerce researcher A/Prof. Charles Harvie has recently been appointed as project leader of an Economic Research Institute for ASEAN and East Asia (Jakarta, Indonesia) Research Project 2010 Working Group on ‘Small and Medium Enterprises (SMEs) Access to finance in Selected East Asian Economies’. A/Prof. Harvie (Director, Centre for Small Business and Regional Research, and HOS for Economics) will oversee the ERIA-funded project, which is concerned with access to finance for East Asian SMEs. (ERIA is a research institute attached to ASEAN). He will be responsible for the overall project as well as chapter contributions on SME access to finance, project methodology, empirical analysis and key findings as well as policy recommendations.

Senior Lecturer George Mickhail (from the School of Accounting and Finance, Faculty of Commerce) was recently invited by the French National Police to address the Centre Region Emergency Command Headquarters about his Multilingual Autonomic Troubleshooting Emergency Services (MATES) prototype. The application allows police operators to identify and interact with any caller from 50 linguistic backgrounds, as well as, autonomously manages an emergency call efficiently and coordinates police, fire and medical emergency services. The application also correlates the acquired victim/witness-crime-criminal (VCC) profile information to identify the most plausible list of who may have committed the crime and triangulates their possible coordinates. Dr Mickhail’s presentation was well received and widely reported in the French National Police bulletin.

Internationally Renowned Academic Visit from Singapore

Dr Jerry Cao from Singapore Management University was recently invited by the School of Accounting and Finance and the Chinese Commerce Research Centre (CCRC) to present his joint paper with Associate Professor Tian and PhD student Xiaofei, ‘Disproportional Ownership and Pay-performance Relationship’.

The paper examines the impact that ownership structure has on the pay-performance relationship in China’s listed firms. “It is good to have collaboration internationally with academics like Dr Cao and we have had very productive research outcomes with completion of three working papers and few ongoing projects are on the way,” said Tian.

“We found through our research that that the cash flow rights of the ultimate controlling shareholder have a positive effect on this relationship, while a divergence between the control rights and cash flow rights has a significantly negative effect. By dividing our sample into state owned enterprises (SOE), state assets
management bureaus (SAMb), and privately controlled firms, we find that cash flow rights in SOE controlled firms have a significant impact on accounting based pay performance and cash flow rights in privately controlled firms also affect the market performance based relationship, said Tian. “

“However, CEO pay in SAMb controlled firms bears no relationship with either accounting or market based performance. We therefore argue that CEO pay is inefficient in firms where the state is the controlling shareholder because it is insensitive to market based performance but consistent with the efforts of controlling shareholders to maximize their profits, said Tian.” Dr Jerry Cao published research papers in the Journal of Financial Economics and the Journal of Financial and Quantitative Analysis. His studies on private equity have been widely cited by the Wall Street Journal, Business Week, Forbes, and other financial journals.

7th SMEs in a Global Economy Conference

From left to right: Dr Michael Schaper (Deputy Chair, Australian Competition and Consumer Commission, panel discussant), Yot Amornkitvikai (Ph.D student, Economics), Dr Le Cong Luyen Viet (Swinburne University), Professor Robert Blackburn (Kingston University, UK, conference keynote speaker), A/Prof. Charles Harvie (Head, School of Economics), Dr Sothea Oum (Associate Researcher, Economic Research Institute for ASEAN and East Asia), Teerawat Charoenrat (Ph.D student, Economics) and Piyapong Sankaew (Ph.D student, Economics).

The 7th SMEs in a Global Economy Conference took place in Malaysia from 15 Oct to 18 Oct -- a successful collaborative event organized by UiTM Sarawak, Malaysia, with the Centre for Small Business and Regional Research (CSBRR) of the Faculty of Commerce. The SMEs in a Global Economy Conferences series first started in the year 2000 by the University of Wollongong, Australia. This was followed by subsequent series of such conferences in Malaysia, Japan and China, besides others within Australia. It has attracted co-organisers from Malaysia (Faculty of Business Management, UiTM), Japan (University of Senshu) and China (Beijing Information, Science and Technology University) to host the earlier conferences. More information can be found in the following link: http://www.smesconference2010.com/

PhD student Shiran Gunasena from the Faculty of Engineering’s Geotechnical Group, has won the Co-operative Research Centre (CRC) for Rail Innovation Research Students’ Competition.

The competition, held in Brisbane, was hosted by the Australian CRC for Railway Engineering and Technologies. Shiran’s presentation was based on his PhD research and was conducted at the Sebel Citigate Hotel auditorium in Brisbane in front of an audience of more than 150 people. Shiran’s PhD research is focused on the “improvement of the shear strength of soft soil by native tree root suction and reinforcements.” His research outcomes will be necessary for engineers to use native vegetation as an environmentally friendly, cost effective and flexible ground improvement method especially in the construction of railways in vegetated coastal areas. Shiran’s research is financially supported by the Australian CRC for Railway Engineering and Technologies.

University Research Network Symposium

Members of the University Research Network, “Molecular Interactions in Telomeres” (MIiT) met for their inaugural annual symposium on campus on Wednesday 27th October.

A major goal of the UoW Research Networks is to facilitate collaboration among researchers across research strengths and with external institutions and organisations. The founding Chief
Investigators of MiiT are Associate Professors Jennifer Beck and Aaron Oakley (Centre for Medical Bioscience, CMB, School of Chemistry), Associate Professor Stephen Ralph and Dr Michael Kelso (Centre for Medicinal Chemistry, CMC, School of Chemistry), and Associate Professor Tracy Bryan and Dr Scott Cohen from the Children’s Medical Research Institute (CMRI). The event was marked by a lecture by international guest and new member of the team, Dr Steve Akman (M.D.), of the Cancer Biology group at Wake Forest University School of Medicine, North Carolina. Dr Akman has a particular interest in breast cancer.

What are Telomeres?
The team has been assembled through an interest in telomeres and telomerase. Telomeres are repeating sequences of DNA at the ends of chromosomes that do not code for genes. In normal cells, the telomeres become shorter each time a cell replicates and it is thought that when the telomeres reach a critical short length that this is a signal initiating the normal process of cell death. The enzyme telomerase is one of the least abundant proteins in human cells, but is relatively over-expressed in our germ line cells (ovary and testis) and importantly in approximately 85% of all cancer cells. The enzyme extends telomere length, and in cancer cells this is thought to be one of the factors that immortalises them.Maintenance of telomere length is thought to be involved not only in the onset of cancer, but in other diseases such as motor neuron diseases and also in the ageing process. The significance of telomerase and its activity at the ends of telomeres was recognised by the awarding of the 2009 Nobel Prize in Physiology/Medicine to Blackburn, Greider and Szostak.

The Research Network team is interested in the interactions of telomerase with other cell proteins and the DNA at telomeres. If ligands (potential drugs) can be found that interfere with these interactions, it may be possible to short circuit the uncontrolled growth of cancer cells. The team has complementary skills that include cell biology, medicine, protein structure determination and synthetic chemistry. This multidisciplinary approach is providing opportunities for students to widen their horizons and the event has drawn in new collaborators Dr Haibo Yu (CMB, School of Chemistry) and researchers from the University of New South Wales. More information at http://research.uow.edu.au/miitn/index.html

2010 Women in Asia Conference
Faculty of Arts HDR candidate Emma Dalton (PhD, ELP) reports that there was a strong UOW Arts presence at the 2010 Women in Asia Conference, held at the Australian National University (ANU) in Canberra at the end of September. Emma, along with fellow HDR candidates Kirsti Rawstron (PhD, HP) and Hujuala (Lala) Rika Ayu (MA Res, ELP) presented papers at the conference, as did their Faculty colleague Dr Rowena Ward (LC).

UOW’s Social Innovation Network (SInet) was very fortunate to have Cheryl Kernot as key speaker for its third Seminar for 2010 on Social Business & Innovation at the Innovation Campus, on Wednesday, 27th October. Cheryl is currently the Director of Social Business, Centre for Social Impact at the University of NSW. She spoke about Creating Social Value: social innovation driving social change and distinguished Social Business from Charities, Not-for-Profits and traditional For-Profit Business. Social businesses operate in the real market place make a social impact as well as a profit which they plough back into the business to improve the social agenda. Cheryl gave some exciting international examples of this and struck a chord with the audience in her plea that we emulate some of these here in Australia.

Other speakers echoed this message including James Dellow from Headshift Social Business Consultancy and SInet co-director Helen Hasan. Both gave examples of using IT in the health sector not just to collect vast amounts of statistical information to tell us what is happening but stories of real people that can give insight into why things happen. James described the UK website “Patient Opinion” where patient stories, the majority of which are positive are guiding new directions for the health system. Helen invited the local audience to participate in the co-creation of a Wiki http://www.healthservicewiki.org/ as a local community resource for patients, carers, practitioners and service providers in the Illawarra. The evening concluded as SInet Director Heather Yeatman launched “The SInet 2010 eBook”, a broad collection of fascinating papers from our inaugural SInet conference in November 2009 showcasing the work of SInet members.

Sign up to UOW Databases of Expertise
Don’t keep your research a secret! Join the following Databases:

Media Unit : ‘Database of Expertise’
This database is targeted at national and international media agencies, who are always on the lookout for stories about groundbreaking research and comments from researchers who are experts in their field. Increase your research profile by being quoted as an expert: fill in the form and send to the media unit.

Commercial Research Unit : ‘Partners in Research’
This database is directed at Industry and/or Businesses to facilitate a ‘consulting’ or ‘contract research’ relationship with UOW researchers. It allows Industry partners to access UOW expertise and equipment. Add your Research expertise.
Scholarship News

Applications for main UOW scholarships (round 1) closed on October 17. They are now being assessed online by the faculties using the new HDR Student System. Offers to Fast Tracked students will be sent out in mid November. Further offers to the remainder of the successful applicants will be sent out in late November.

Scholarship round 2 closes on March 12 2011 for all faculties.

2011 Round 1 Main Awards Applications

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EVENTS

Research Events

Many thanks to all of the researchers who presented at a Uni in the Brewery event or Research Showcase Seminar in 2010. The 2011 events will be advertised shortly. Keep an eye out at http://www.uow.edu.au/research/news/index.html

Ethics

Agenda Deadlines and Meeting Dates 2010 for your diary

Human Research Ethics Committee (HREC) - Health and Medical
Next meeting 14th December (agenda deadline 24th November)

Human Research Ethics Committee (HREC) - Humanities, Social Science & Behavioural
Next Meeting 9th December (agenda deadline 24th November)

Speaking of Ethics…. It is with great sadness we say goodbye to Ethics Officer Mr Michael Contreras who, after almost 5 years at the UOW, is leaving for a position at the UNSW Australian School of Business. We thank him for all his work supporting the ethics team at the Research Services Office and various Ethics committees. We wish him all the very best in his new position.

Adios amigo... ;)

http://www.uow.edu.au/research/rsc/student/scholarships/
Professor Graeme Turner will discuss what he describes as a crisis for the humanities disciplines as they struggle to maintain their distinctive presence in Australian universities today.

Professor Turner (FAHA) is ARC Federation Fellow and Director of the Centre for Critical and Cultural Studies at the University of Queensland. His research has produced 21 books, and his work has been translated into 9 languages, but this lecture will draw upon his experience in dealing with government and the university sector as a representative of the humanities over many years.


Global medical radiation experts gather at Innovation Campus

A special international ‘summer school’ looking at concepts and trends in medical radiation dosimetry was held at UOW’s Innovation Campus from 15-18 September.

In the treatment of illnesses such as cancer, dosimetry refers to the measurement of radiation doses on the cellular level.

The school was intended for scientists who are new in the field and for those who would like to deepen and widen their knowledge.

Participants who attended the school come from a diverse range of countries including the USA, Denmark, Holland, Israel, Germany, Japan and Australia. The summer school is an Australasian College of Physical Scientists and Engineers in Medicine approved educational school. It follows from previous schools held in Athens, Yale University in the US and Delft in the Netherlands. Lectures from the school will be published by the American Institute of Physics.
Deakin University at Burwood is the newest partner to join ACES.

Prof Maria Forsyth (pictured), Deputy Director of ACES, has been appointed to a Chair in Electromaterials and Corrosion Sciences within the Institutes for Technology and Research Innovation (ITRI). Dr Patrick Howlett joins Maria as a senior lecturer...

IPRI continues to build ‘end user’ links

IPRI has added to the end user portfolio by winning another ARC linkage Grant with SMR automotive to develop smarter electrochromic systems. IPRI scientists will work closely with SMR scientists and engineers based in Adelaide and who are part of the Indian based SMR conglomerate.

This project joins other IPRI – ARC Linkage funded projects on:

- Development of Supercapacitors with CapXX Australia
- Development of biodegradable stents with Boston Scientific USA
- Development of Polymer solar cells with Konarka USA

Prof Geoff Spinks was awarded an Australian Professorial Fellowship (APF). The project seeks to develop improved artificial muscles by building material systems that mimic the structure and function of natural muscle. The hope is to produce fast, large and efficient actuation by combining soft, tough hydrogel materials with conducting polymers and carbon nanotube yarn reinforcements. The concept involves delivering a chemical fuel to the gel through conducting polymer ion-gate channels with the actuation direction controlled and amplified by stiff, nanotube yarns (similar to the process that occurs in some plants). It all sounds very simple in principle, but these novel composite structures will be very challenging to build.

Prof Michael Higgins was awarded an Australian Research Fellowship (ARF) with funding over 5 yrs to support research on developing multifunctional probes based on AFM technology for the stimulation of nerve cells. The multifunctional probes will incorporate organic electromaterials and be analogs for nanobioelectrodes. The research aims to advance the design of smaller and more effective electrodes, enabling integration with single neural networks in the body, to improve the clinical treatment of neurological disorders.

Dr Attila Mozer was awarded a 5 year ARC Discovery project and a prestigious Australian Research Fellowship to develop the next generation of flexible polymer solar cells. These cheap solar cells use colourful plastics instead of expensive silicon solar technology currently available at the market. Once the technology is fully developed, this new solar cell technology aims to provide a very affordable, low-cost option for everyday Australians.


To ensure inclusion of your research news, event or service in the next issue of the RaID Newsletter (due for publication early/mid February 2011), please e-mail details to lhawes@uow.edu.au or vwallace@uow.edu.au by 24th January 2011.

Have an enjoyable and safe holiday...
Merry Christmas and Happy New Year
From Laura and Vicky...