A word from the 
Dean of School of 
Computing, 
Engineering and 
Mathematics

Research Futures Postgraduate Forum has established a vibrant environment for presenting the state-of-the-art of the postgraduate research inquiries. This is the first forum of the School of Computing, Engineering and Mathematics (SCEM), established in 2012. It is both a challenge and an opportunity to cope with, further develop and build on top of the emerging extended technological infrastructure of the modern world. The research footprint of the School is at the frontend in addressing this challenge and this opportunity.

This volume sprinkles a touch of the amazing spectrum of SCEM postgraduate research. A random micro-sample of keywords from the titles – {graded carbon nanotube, eVillage, structural health monitoring, energy efficient data compression, supernova remnants, geotechnical characterisation, color analysis, implantable microstrip ring disk antenna, financial markets, oscillatory flows, GHG emission mitigation, patient monitoring} provides the flavour of the breadth and depth of what one can get from attending the presentations at the forum. SCEM Research Futures offers to current and future supervisors a forum for exploring cross-fertilisation of ideas and expertise from all the colourful range of disciplines in the School, with the potential of lifting the projects that we tackle to another level.

Enjoy the two days of innovation, creativity and rigour of SCEM postgraduate talents.

Professor Simeon Simoff

SCEM Graduations 2012

The School of Computing, Engineering and Mathematics graduation ceremonies were conducted on the Parramatta Campus on the 20th April 2012. Professor Simeon Simoff, Dean of the School, gave the occasional address for the first ceremony, and the second ceremony occasional address was given by the Honourable Ed Husic MP, Federal Member for Chifley.

Honours Graduates 2012 L – R Matthew Crepaz, Martin Chylinski, Associate Professor Miroslav Filipovic, Graeme Wong and Edward Caprin at SCEM Graduation April 2012 and below Dean of SCEM Professor Simeon Simoff.
SCEM Research Futures Forum

The School of Computing, Engineering and Mathematics will hold its inaugural Research Futures Postgraduate Forum 2012 on 6-7 June 2012 at Werrington North Campus. The Research Futures Postgraduate Forum is an annual school academic event that provides an excellent opportunity for the HDR students to present research achievements. All currently enrolled HDR students are required to make a presentation at the Forum, which is also a compulsory assessment item of annual progress report.

The HDR students, working with their supervisors, should prepare their abstracts using the abstract templates and guidelines emailed to them and submit these abstracts to the School Research Services Team Olga Underwood and Cheryl Murray before 15 May 2012.

2012 Three Minute Thesis Competition

SCEM 6-7 June 2012
UWS Final - 10 August 2012

Trans-Tasman Final at UQ - 11 October 2012

Schools and Research Institutes will hold preliminary competitions to select their finalists before mid-August.

For information on the previous UWS winners visit 2011 Three Minute Thesis, 2010 Three Minute Thesis, and you can also watch videos of the 2010 UWS Three Minute Thesis Final. The University of Queensland has a video clip on 3MT.

3MT develops academic, presentation, and research communication skills and supports the development of research students’ capacity to effectively explain their research in language appropriate to an intelligent but non-specialist audience.

Research higher degree (PhD and MPhil) students have three minutes to present a compelling oration on their thesis topic and its significance. 3MT is not an exercise in trivialising or ‘dumbing-down’ research but forces students to consolidate their ideas and crystallise their research discoveries.

Further information is available at:
http://www.uws.edu.au/research/current_research_students/three_minute_thesis_competition

A word from your School Librarian

In response to the University restructure the Library has appointed a senior librarian for each School.

As your School Librarian I work with staff, researchers and higher degree students offering:

- Individual consultations/meetings to discuss your teaching and research needs
- Support for your research and/or teaching needs via the library collection and beyond
- Advice on the best sources of information
- Discussion regarding library support in e-learning spaces
- Academic staff and HDR training and support in accessing the latest research and information seeking skills
- Participation in SAC and identified meetings by promoting library services and resources and bringing an understanding of academic directions to the library.

Please do not hesitate to contact me to discuss your library needs.

Linda Thornely
l.thornely@uws.edu.au
Computing, Engineering and Mathematics Librarian
Phone: 02 9852 5907
Fax: 02 9852 5918
Visiting Fellowship

Dr Ragbir Bhathal has been invited by Professor Harvey Butcher, the Director of the Research School of Astronomy & Astrophysics to be a Visiting Fellow at the School at the Australian National University. He will be working on a research project with him and Dr Ralph Sutherland. Dr Bhathal has written 8 books on astronomy.

Commemorating Sir Thomas Brisbane’s Observatory at Parramatta Park

Arising from his research on Sir Thomas Brisbane’s Parramatta Observatory, Dr Bhathal gave a public lecture on Saturday 28 April 2012 at Parramatta Park on the scientific achievements of the Observatory including the observation that confirmed Newton’s theory of gravitation. After the talk members of the public were able to view the heavens with over 27 telescopes supplied by astronomical societies. The event was organised by the Parramatta Park Trust, the Royal Society of New South Wales and astronomical societies.

Research Higher Degree Rules and Policies

The UWS Research Studies Committee is a standing committee of Academic Senate and is chaired by the Dean of Research Studies. The Committee is responsible for individual candidature management and policy and practice relating to higher degrees at UWS. The web pages under the Office of Research Services have detailed information about rules and policies, including minimum/maximum completion times and how to seek approval for variation to programs.

Lodgement Date for Publications

To enable the Office of Research Services to meet the Department of Industry, Innovation, Science, Research and Tertiary Education (DIISRTE) deadline, your publications need to be lodged and verification materials received as early as possible. Office of Research Services progressively validates lodgements until the end of April for the previous calendar year. For example, a 2011 publication can be lodged up to 30 April 2012.

http://www.uws.edu.au/research/researchers/destpublications

Completions and access to Turnitin

Turnitin is an online web-based text-matching software that identifies and reports on similarities between documents and is widely utilised as a tool to improve academic writing skills and identify plagiarism, unintended or otherwise. HDR candidates can access a secure Turnitin site in the on-line module, Completions and Beyond hosted in vUWS. Email Mary Krone, m.krone@uws.edu.au for access, check in vUWS first.

Graduating this year? Why not stay connected?

The UWS School of Computing Engineering and Mathematics currently has two Alumni Chapters. The Engineering chapter at

http://www.uws.edu.au/alumni/chapters/uws_engineering_alumni_chapter

is open to all UWS graduates from the Engineering, Industrial Design and Construction disciplines and the Computing and Mathematics Alumni Chapter

is open to all graduates and can be found at

http://www.uws.edu.au/alumni/chapters/computing_and_mathematics

The Alumni Network has been established to ensure that graduates can retain their links to the University of Western Sydney.
The STEP ON IT PROGRAM™ provides users with a mobile active lifestyle program that builds on an existing body composition analyser and clinical data acquisition unit(SK-X80) with means to assess rapid personal body measurements at home(small personal scales UWB enabled) and worksites, which is then transferred by UWB wireless technology to their iPhone or Android Smartphones, or website. It is also a tool to monitor groups of individuals for health screening or assessment e.g. schools, retirement villages, armed forces, private organisations, gyms, airports.

The data gathered of their body composition, weight and body mass index with trend reports of key markers will alert at risk users to opt for diet plan, exercise or both and view their progress over time. Users have the option to include regular medications on trend charts. Diet or exercise plans have reminders and aids to motivate. The benefits are easy access to users or clients of results and analysis, self management with option of chatSmart dieticians or personal fitness trainers, review, encouragement and rewards. Finally the benefit is also in cohort studies and data mining analysis of perceived benefits in economic and health terms in the community over time.

Judges’ Citation: "eHealth is an area of internet and mobile computing which will look to bring great advantage to older members of our community and to people in rural and remote areas. Uptake of traditional health services is growing at over 20% per annum - and government funding is currently growing @ 5% per annum - the gap will require innovative and low cost eHealth solutions to help deliver the services to end users. This innovative solution is looking to provide real time feedback to the user on key health measurements and allow for this to be shared readily with healthcare professionals."

2. Written support from your Supervisor to attend the workshop

Please forward your Expression of Interest to:

Ms Sandra Lawrence

Email: sg.lawrence@uws.edu.au

Phone: +61 2 4736 310

**Expressions of Interest Close 30 June 2012**

**Deloitte Development Program**

Are you a student with an interest in pursuing a career in Professional Services? Our 2012 Deloitte Development Program is a two-day interactive program, offering you professional development, an insight into life at Deloitte and the opportunity to secure a Summer Vacation position. If you are an undergraduate student in your first year of a single degree, or your third year of a double degree, you are eligible to apply.

The Deloitte Development Program will provide you with the opportunity to:

- Learn about Deloitte and our career opportunities
- Experience the life of a Deloittian and spend a half a day with one of our Partners
- Sharpen your business etiquette and networking skills
- Receive coaching on applications and interview skills.

The Deloitte Development Program will be held in Sydney on 3 and 4 July 2012 and in Melbourne on 17 and 18 July 2012.

**Can I apply?**

To apply to this unique and invaluable learning opportunity you must be an Australian Citizen, permanent resident of Australia or an international student who meets our international students criteria, with two or more years left to complete your degree (single or double) in Accounting, Actuarial Studies, Business, Commerce, Economics, Engineering/Computer Software, Finance, HR/OH&S, Information Systems, Web Design or IT/IS/ICT.

**How do I apply?**

To apply for the opportunity to participate in the Deloitte Development Program please visit our website www.graduates.deloitte.com.au and submit an online application with your resume attached. Applications open on 16 April 2012 and we will be recruiting until 15 June 2012 – positions will fill fast so get your application in early.

**www.graduates.deloitte.com.au**

**Editor**

To contribute to this newsletter or contact the Editor Cheryl Murray see below:

Email: c.murray@uws.edu.au

Phone: 9685 9234