

ENGINEERS SYDNEY



THE NEWSLETTER OF THE SYDNEY DIVISION OF ENGINEERS AUSTRALIA

MAY 2011

SYDNEY DIVISION KEY SPONSORS



PRESIDENT'S MESSAGE

Throwing the Light on Australian Engineering

In November last year, the *Sydney Morning Herald* published an article about the Sydney Theatre Company, entitled "Blanchett launches star power". The article showed the roof of the wharf where the theatre company is located (and actress Cate Blanchett is a director of) being covered with 1906 solar panels. This array of panels is now the second largest roof-mounted array in Australia, and can provide up to 70 per cent of the theatre's power supply. It is definitely a significant achievement for a company to embrace solar energy and the take the steps towards the reduction of green house gases.

The article also mentioned that Dr Zhengrong Shi (the founder and chairman of Suntech Power and currently listed by Forbes Magazine as one of the wealthiest people living in China) funded the venture through The Shi's Family Foundation. However, what is not commonly known is that these solar panels have been invented and developed by Australian Engineers, from the University of New South Wales, of which, Dr Shi is an Alumnus.

Recently, I attended Sydney Division's first Fellows Luncheon for 2011, which was held at State Parliament house. Professor Stuart Wenham of the University of New South Wales was the special guest speaker. Professor Wenham is Sydney Division's 2010 Professional Engineer of the year, and has been a key player in Australia's solar industry. Professor Wenham and his team established Australia's first solar cell production line in 1980, and in 1984 the team at UNSW invented the first buried contact solar cell. Most significantly, in 1998 UNSW developed the world's first Bachelor of Engineering in Photovoltaic Engineering, with more than 500 students being currently enrolled. In fact, over 60 per cent of the world's leaders, now running solar-related companies, are

UNSW graduates.

Not to mention, the technology developed by the engineering researchers at UNSW now holds world records for efficiency and has won numerous awards. Professor Wenham told the audience at the Fellows Luncheon that their research and development is heading towards making solar power the equivalent in cost to that of the standard power supply we now have.

These achievements by Australian engineers are significant. In fact, they are having a global impact. They should be celebrated, talked about, and definitely mentioned in leading newspapers. President Obama has recently spoken a number of times with respect to the United States' "Blueprint for a Secure Energy Future" and the diversification into clean energy. We know that as we look into resource depletion, and as we approach high prices in electricity, that innovation and technology development in alternative fuels and energy is going to be high on the agenda. And isn't it great that our great country is not only sun-drenched (so that we can take advantage of these technologies), but our engineers are also leading the way in solar technology. And, by the way, next time you go to the theatre company, make sure you tell who ever you are with.

Please add the Sydney Division President (EASyd_President), if you are on Twitter.

Maryam Khajeh
Sydney Division President



→ 2011 year of humanitarian engineering

Key Division Staff

Executive Director – Steve Finlay
Executive Operations Manager – Richard Hanna
Events Manager – Aimee Najdovski
Industry Relationship Manager – Elana Huthnance
Events Administrator – Jessica Marshall
Communications and IT Coordinator – Nimali Herath
Membership Officer – Julia Bresolin
Membership Officer – Danielle Tuazon
Membership Officer – Roy Kwan
Account Manager – Rimma Kolodziner
Chartered Assessors – Roland De Broglio, Amal Hanna
 Neil Wyles and Sheila Anderson
National Stage 1 Assessor – Guy Beaubois, Maurice Allen
National Manager Careers – Jenny O'Donovan

Your Division Committee for 2011

President – Maryam Khajeh
Deputy President – Brendyn Williams
Vice Deputy President – John Nichols
Immediate Past President – Ian Ackland
National Councillors – Bruce Howard, Marlene Kanga
 and Alex Baitch
National Congress – Kevin Dixon, David Edwards
 and Michael Myers

Elected Members:

Alex Baitch, Kevin Dixon, Phillip Cleary, Rosemary Crowhurst,
 Don Hector and Ted Toohar

Appointed Members:

**Young Engineers Australia,
 Sydney Division** – Jonathan Lindsay
Women in Engineering – Julie Mikhail
Regional Group Representatives – Jon Thompson
 and Marlene Van der Sterren
College and CELM Representative – Debashis Raha
Unit Representative – Jon Lee
Societies Representative – Patrick McMullan
Chair Education Sub Committee – Norm Himsley

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Deputy President's Corner

We now have a new government in NSW, and with it the renewed hope of seeing some of our overdue infrastructure needs addressed.

But as an engineering profession, are we prepared for the increasing challenges of delivering major infrastructure projects in amongst existing urban development? Yes we are – but only if all parts of the engineering profession work together for the common good.

Contractual arrangements on major infrastructure projects are necessarily complex, and have often resulted in disputes between parties where misunderstanding and unmet expectations are allowed to fester. Partnering and more recently Alliancing have renewed the importance for key stakeholders to cooperate and collaborate to determine and deliver the common objectives for the project – 'best for project'.

So, perhaps we should be taking this further by considering how the multi-disciplinary nature of the engineering profession can work more cooperatively together from project initiation, through planning and design, construction and handover, and into asset management – "best for profession".

A long standing example of collaboration within the engineering profession is the work being undertaken by The Warren Centre for Advanced Engineering. Another is the Australian National Engineering Taskforce (ANET), an education-industry collaboration formed nearly 2 years ago to create a national strategy for the development of Australia's current and future engineering workforce (visit www.anet.org.au). More recently, The Case for Engineering Registration was released by the National Engineering Registration Board (NERB) and supporting partners.

In responding to the rebuilding effort after the recent natural disasters, and providing the capability to deliver the major infrastructure needs of NSW, it is the engineers involved in the building and construction industry in particular which will need to work cooperatively together if government and the community are to realise the value that the engineering profession has to offer.

*Brendyn Williams BE(Civil)(Hons) MIEAust FIPWEA
 Deputy President, Engineers Australia Sydney Division*



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Awards

- **Australian Prosecution IP Firm of the Year 2011** by Managing Intellectual Property
- **Best Patent & Trade Mark Attorney Firm 2010** by BRW Client Choice Awards
- **IP Specialist Firm of the Year 2010** by ALB Magazine
- **AsialP Law Awards – Patents 2010** by AsialP
- **Trademark Law Firm of the Year 2010 Australia** by Corporate Intl Magazine



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Young Engineers

Early last month Young Engineers in Sydney hosted the 2011 Engineering Career Expo at the Sydney Masonic Centre and introduced several hundred student and graduate engineers to the engineering industry. The evening was complemented with a program of interactive forums designed to give young engineers the opportunity to gain knowledge about how to make them stand out to potential employers.

While listening to the questions asked by students, I found myself reminiscing to when I was finishing university two years ago and wondering if the questions that I was hearing were similar to what I wanted to know then; not surprisingly they were. This made me realise that in the relatively brief time that I've been working as an engineer I have undergone a tremendous amount of professional development and maturing because many of the questions asked by students now seem either unimportant or irrelevant.

For instance, grades at university are not everything. Don't get me wrong – they are important, however, quite often the graduates who have brilliant marks don't excel ahead of their 'less brilliantly marked' peers in the work place. What some high achievers at university neglect is the teamwork, interpersonal effectiveness and general social skills that equally contribute to success in the professional world; skills that are not often assessed at university. The most utilised skill an engineering student develops is how to learn and think not, for example, how accurately you can apply Bernoulli's principle to estimate the air pressure generation of a centrifugal fan. Provided you know where to look to find such a principle when and if the need crops up, you'll do well.

An interesting activity that is often discounted by students is networking. When I was at university I didn't give much attention to this important pass time, not because I didn't value it, more that I didn't think about it. Getting to know professionals in industry can make your job seeking easier, because it helps you understand what you may be doing once you finish university. The job that you've been dreaming of might not be all that you thought and conversely the industry that you never considered might present wonderful and interesting opportunities. For example, university rarely tells you what a professional electrical engineer actually does at a consulting firm in the city. However, an engineer working in that field can tell you exactly what they do day-to-day allowing you to make more informed decisions about your career path. On top of this when asked in interviews why you want to be a consulting engineer, you can give an intelligent personal answer based on real accounts rather than a formulated one that the interviewers may well see as uninformed. So pay some attention to building your networks, you never know where they can lead!

On to upcoming events, YEAS & Sydney Division Quality Panel will be hosting a "Renewable Energy: Marine & Geothermal" seminar at UTS



Panel of professional human resources experts answer questions about how to stand out to engineering companies when applying for jobs.

on 2 June. Dr Dave Dorrell of UTS and Prof. Shiek Rahman of UNSW will discuss the fascinating science & technology behind marine and geothermal renewable energies. The seminar is being held at UTS Campus Building 4, Level 2, Room 35 from 5:30–7:30pm. For more information check out our website below.

Also I'm pleased to announce that YEAS will be holding our Debating Workshop at Engineers Australia's Chatswood auditorium on June 4th. This is a great opportunity for young engineers who are keen to develop key professional skills and help promote the importance of debating and negotiation within the engineering community. If you are keen to get involved we want to hear from you; email Pat James (yeasyd@engineersaustralia.org.au) to register your interest.

I hope to see you at one of our great events soon!

James Bencke
YEAS Chairperson

If you are interested in getting involved or learning more about YEAS please email our secretary Patrick James at yeasyd@engineersaustralia.org.au. For upcoming YEAS events please visit our website at <http://www.engineersaustralia.org.au/yeasyd/> or join our Facebook group: Young Engineers Australia Sydney.

Nuclear Engineering Panel Presentation

The Nuclear Emergency at Fukushima

Engineers Australia Auditorium, Ground Floor,
8 Thomas St, Chatswood
5:30pm for 6:00pm, Wednesday 25th May 2011.

Presenters: Tony Irwin and Don Higson

For further information, contact Don Higson at higsond@bigpond.net.au

EngQuest 2011

EngQuest is a fun and interactive program of Engineers Australia, designed to help students achieve key learning outcomes in science, technology and mathematics. Lower primary, primary and middle years students work in teams, at their own pace, applying their problem solving skills to unravel exciting engineering projects.

Like to get involved?

Volunteering for EngQuest is a rewarding experience for both the volunteers and EngQuest participants involved. Your contribution and support to the program is invaluable in providing students with an insight into the world of Engineering.

There are three ways in which you can volunteer:

- Volunteer to visit schools.
- Answer questions on the "Ask an engineer" forum.
- Provide feedback on on-line project submissions.

You can choose one or more ways to volunteer, depending on how much time you have to commit to the program

To find out more or to register to become an Engineer Volunteer and be part of this great EngQuest program, please visit the website www.engquest.org.au.

NICTA

NICTA was established by the Australian Government in 2002 to provide a focal point for the country's Information and Communications Technology (ICT) research. Charged with providing a supportive environment for Australian researchers and attracting the best research talent from around the world, NICTA drives ICT innovation through research, education and technology transfer.

All research undertaken at NICTA has a basis in a real-world problem or challenge. For example, NICTA has produced world-first short-range wireless technology that removes cables from home entertainment systems and small offices. NICTA is a member of Bionic Vision Australia, a consortium of leading research institutes working together to build the world's first bionic eye. NICTA is also developing technology to better manage Australia's scarce water resources.

NICTA also works with its university partners to provide an environment that enhances and supports the quality of Australian computer science and electrical engineering PhD education. There are 230 students are currently pursuing their PhD studies in NICTA laboratories. This is the largest concentration of ICT PhD students in Australia.

NICTA has five research laboratories in four cities: Melbourne, Sydney, Canberra and Brisbane. Most of NICTA's funding comes from the Australian Government, with State Governments and universities also contributing.

NICTA has six research groups: software systems; networks; machine learning; computer vision; control and signal processing, and optimisation. We currently have four business teams focusing on: broadband and the digital economy; health; infrastructure, transport and logistics, and safety and security

NICTA's mission is to undertake breakthrough, internationally recognised research in partnership with industry, government and researchers, to create value for Australia.

It is doing this by recruiting the best researchers and choosing the right research challenges. NICTA also works closely with universities to provide Australia with the next generation of world-class ICT researchers.

NICTA aims to become one of the world's top ten ICT research centres by 2020. With a focus on 'use-inspired research', NICTA moves its cutting-edge ICT ideas out of the laboratory and into the market through the creation of spin-out companies, licensing agreements and contract research.

One company that started its life as a NICTA research project is Open Kernel Labs, a globally successful enterprise that now employs more than 50 people in Australia and the US. Its technology is now included in over 1.2 billion mobile phones.



Our Engineers

NICTA engineers are some of the best in the world, supported by NICTA's unique relationship with universities and our linkages with leading international research institutes such as INRIA, Fraunhofer and the Singaporean Institute for Infocomm Research (I²R). In partnership with universities, NICTA produces high-quality PhD graduates. Students are offered additional training, scholarships and other opportunities.

NICTA is a partner in several of the EU's Seventh Framework Program projects including OneLab2, the largest of 14 projects inside the EC's initiative for Future Internet Research and Experimentation (FIRE). The 26-member collaborative project has a total budget of €8.9 million (AUD\$15.4m). It is envisaged that NICTA's participation in the project will lead to increased opportunities for experimental research in Australia, educational programs, and an Internet that is well understood, more secure, and future-proof.

NICTA engineers stand out for their excellence and their imagination. They carry out use-inspired, world-class research, in line with the goals and mission of NICTA. Several NICTA staff members are Fellows of the prestigious Australian Academy of Technological Sciences and Engineering.

Our Staff

NICTA employs around 700 people, including more than 230 PhD students. It is a culturally diverse workplace that values excellence and entrepreneurship.

There is always something new and exciting happening at NICTA, and a culture of learning is supported through scholarships for PhD students and access to international conferences and collaborators. NICTA is a place where researchers and students can have confidence that they are making a genuine contribution to Australia's ICT knowledge base and economy.

NICTA is developing a strong achievement-focused culture and leadership across the organisation. It has developed awards that recognise and reward employees who make an outstanding contribution to NICTA's vision and values, either through the excellence of their research or through their operational excellence.

Major Achievement

NICTA, enterprise software company SAP and Europe's largest application-oriented research organisation Fraunhofer opened a Future Logistics Living Lab in February 2011.

The Future Logistics Living Lab is dedicated to creating groundbreaking information technology for the transport and logistics sector. Based in the Australian Technology Park in Sydney, the Living Lab will provide a physical platform for industry and research to work together, to investigate and overcome real world logistics issues, and to demonstrate and test innovative technology that will provide transport and logistics solutions for the future. The Living Lab is the first of its kind in Australia.

The Living Lab will concentrate on improving the efficiency of Australia's logistics networks by fast tracking the adoption of emerging technologies and research outcomes by industry. Rising fuel costs, road congestion, carbon emissions and safety are some of the issues that the Living Lab is addressing.

NICTA CEO, Hugh Durrant-Whyte said: "The Living Lab is an example of research institutions, industry and government working together on important challenges for the logistics industry. NICTA is excited to be part of this initiative in Australia and will continue to drive innovation through industry engagement."

A website is available (www.futurelogisticslivinglab.com.au) and remote access from overseas is planned.



Maryam Khajeh (President), Brendyn Williams (Deputy President), John Nichols (Vice Deputy President), Steve Finlay (Executive Director) with Honorary Fellow Dr John Sligar and New Fellows to Sydney Division.

Fellows' Luncheon – March 2011

The November Fellows' Luncheon at Parliament House was hosted by Mr Craig Baumann MP, guest speaker Professor Stuart Wenham and by 160 Fellows and their guests.

We welcomed 20 new Fellows and 1 Honorary Fellow into Engineers Australia Sydney Division. The new Fellows welcomed at the Luncheon were:

Honorary Fellow Dr John Sligar	Sobhy Nicola
Peter Allen	Giovanni Novella
Sudarshan Raj Aryal	Rolandt Slee
Ian Cutler	John Nichols
Christopher Dalitz	Andrew McGill-Morton
Nabil Faysal	Rodney Cameron
Craig Funnell	Tristram Carfrae
John Heathers	Craig Laslett
Helmut Mayer	Leslie Nador
George Melhem	William Tonge
Siddiq Mirza	



Professor Stuart Wenham.

The guest speaker was Scientia Professor Stuart Wenham at The University of New South Wales and Chief Technical Officer of Suntech Power. Stuart is also Sydney Divisions Professional Engineer of the Year 2010.

Professor Wenham captivated the audience with his presentation on Photovoltaics Coming of Age. He discussed how Photovoltaics is the fastest growing industry in the world for its size, now exceeding \$100 billion/year world-wide and

doubling every 1-2 years. Stuart also spoke about how this rapid growth and development towards reaching grid parity, is being fuelled by technology development, falling costs, Government support in many countries and the growing awareness of mankind for the need for sustainable and environmentally friendly energy supplies. Stuart finished with mentioning Australia's contributions to this rapid development, particularly through technology development and commercialisation but also through the education and training of many of the senior managers of the world's largest photovoltaic companies.

The Luncheon was closed by Brendyn Williams, Sydney Division Deputy President, who delivered the Vote of Thanks.

The next Fellows' Luncheon will take place on Friday, 11 November 2011.

Sydney Chapter of CELM presents

Sustainable Decision Making for Success

Presenter: Mr Dwayne Pretti, Principal Consultant at Tenix Australia
Date: Tuesday, 17 May 2011
Time: 5:30pm registration for 6:00–7:00pm
Venue: Engineers Australia Auditorium, 8 Thomas Street, Chatswood, NSW 2067

Registration: Register Online at <http://www.engineersaustralia.org.au/sydney/celm/>

In the wake of a Global financial crisis, a constrained fiscal environment and an economic recovery that has not yet materialised, we are all confronted with challenges not seen in decades. The need for appropriate and sustainable decision-making has become more palpable than ever before.

It is the only means through which organisations can successfully navigate the current economic climate.

Attendance at the seminar will count towards an hour of CPD.

Attendance is FREE for Engineers Australia members. Online registration is essential.

The flyer can be downloaded from the Sydney CELM webpage: <http://www.engineersaustralia.org.au/sydney/celm/>

Women in Engineering family day

On Saturday 2 April, Women in Engineering (WIE), Sydney Division, hosted a family day at Centennial Park offering an opportunity for a family bike ride as an alternative to the annual kayaking event. With the majority of WIE events held on weekday evenings, this weekend social gathering allowed for a more relaxed environment in which to network and socialise with partners and other family members.

Although the weather looked ominous, the rain held out and those who turned out in the windy conditions and worked up a sweat cycling around the park, were rewarded with a free lunch consisting of Thai and Indian treats. Overall an enjoyable time was had by all.

Women In Engineering Sydney Division (WIE) is a special interest group within Engineers Australia that promotes the awareness of female engineers, encourages young female students to study engineering in universities and supports the retention of women engineers in the workforce. If you would like to know more about WIE please feel free to contact us on sydneywie@engineersaustralia.org.au.

*Julie Mikhail
Chair, Women In Engineering*



Hedgehog Race at Nullus Anxietas III (the Australian Discworld Convention 2011)

The Western Sydney Regional Group (WSRG) had a busy month. The month of April began with a Hedgehog Race at Nullus Anxietas III (the Australian Discworld Convention 2011) at Penrith Panthers. Engineers from around Australia assisted participants to design and build a hedgehog from a mound of scrap materials. The challenge was for the hedgehog to travel the furthest distance under its own power. The winning entry was powered by a number of balloons and had CDs as wheels. The event was declared a success by Lord Vetinari (the convention chair) and proudly supported by WSRG.

Our committee member Dr. Olivia Mirza attended Woman In Science and

Engineering Summit on the 11 April 2011 at Parliament House in Canberra. She was the representative of Woman In Engineering in the Greater Western Sydney.

This interesting event was followed by the careers expo for university students at UWS. The careers expo was held once again by the university in Building Z at the Kingswood Campus and our Campus Coordinator and Young Engineers representatives assisted in the event.

By the time this article goes to print, the first CPEng workshop for 2011 and the technical presentation titled Modern Rail Innovation in Japan will have been hosted at the University of Western Sydney. WSRG would like to thank Mr. Hanna for presenting the CPEng workshop and Dr. Kaewunruen for presenting on the development and innovation in rail infrastructure in Japan.

Finally, WSRG is compiling a database of its former office bearers. We are looking for office bearers from pre 1999 era. If you know someone, or you yourself were involved with WSRG, please contact us on wsrgrg@engineersaustralia.org.au. In addition, we are also looking for photos of any of our events from the last 20 years. If you attended events and made photos, we would like a copy for our database.

*Marlène van der Sterren
Chair WSRG*

If you would like to get involved with WSRG, please contact us on our email: wsrgrg@engineersaustralia.org.au, check out our new webpage www.engineersaustralia.org.au – Sydney – Groups – Western Sydney) or our facebook page www.facebook.com/group.php?gid=113651958661562.

The Career Break

Are you preparing to go on a break?

Are you on a break?

Do you want to know what recruiters are looking for when you return to work?

Are you after some advice?

When: Thursday, 23 June, 12:30-2:30pm.

Where: Sydney CBD.

For further information look out for future advertisements or contact us on sydneywie@engineersaustralia.org.au

Women in Engineering (WIE), with the support of Abigroup Contractors is holding a Panel Discussion focusing on the issue of a career break for female engineers. The panel will consist of a representative from the recruitment industry as well as female engineers who have taken and extended break from work with advice on how to plan for your career break and how to successfully get back into the workforce.



Hedgehog Race at Nullus Anxietas III (the Australian Discworld Convention 2011).

Re-launching for success – UGL and Abigroup renew Professional Development Program partnership

Recently two of Engineers Australia's longstanding Professional Development Program (PDP) partners, UGL and Abigroup, have renewed their commitment to the career development of their engineers and relaunched their programs to maximise success.

Both organisations have taken different approaches to building their engineering capacity through the introduction of structured programs to support engineers to attain Chartered Status.

UGL Limited

UGL is a diversified Australian services company specialising in operations and maintenance; facilities management; engineering; construction; and business process outsourcing. UGL consists of four complementary businesses: UGL Infrastructure; UGL Rail; UGL Resources; and UGL Services.

UGL's global operations include Australia, New Zealand, Asia, North America and the Middle East, employing over 44,000 people within Australia and 14 countries worldwide.

UGL Infrastructure & UGL Rail engineers are supervised by chief engineers responsible for each of the key disciplines. This approach ensures that common high standards are applied throughout the organisation and that their engineers are provided with an environment that fosters their technical expertise.

UGL has taken a holistic approach to building their engineering capacity. With a strong commitment from its senior engineering team, UGL has introduced pathways for engineers at all points in their career development.

"As an engineering company, it is important to have Chartered Engineers that have a strong standing in the industry. For this reason we are committed to doubling the number of Chartered Engineers by the end of the year."

Phillip Biggs, General Manager – Engineering said.

UGL has integrated the PDP into its organisational culture and structures. Potential participants must apply for a limited number of funded positions and enter into an L&D contract that outlines expectations about progress for continued participation in the program. These selected participants have access to a range of organisational supports such as in-house resources and workshops. Engineers in the graduate program are expected to participate in the PDP.

Senior engineers at UGL are embarking on the Mature Experienced Engineer Pathway with organisational support. In addition, to fast track the



EA Sydney Division Executive Director, Stephen Finlay (l) and Abigroup Manager Commercial & Project Services, Ron Yates.

achievement of chartered status and develop engineering leaders, fifteen UGL engineers are participating in the Experienced Engineers Program with Engineering Education Australia

"We have taken a business approach to the introduction of the program at UGL, asking for a strong commitment from the participants that matches that of the organisation." Mr Biggs said.

Abigroup

Abigroup Limited is a major Australian engineering and building construction group. Abigroup have earned their reputation as a leading multi-service construction company through commitment to delivering quality products, years of experience and a committed team of industry leaders. Abigroup is a wholly owned subsidiary of Bilfinger Berger Australia Pty Ltd, a leading international multi-services organisation.

As a part of Abigroup's Graduate Program induction, it renewed its commitment to partner with Engineers Australia.

"In the current competitive environment, it is important our Graduates develop the skills and experience to be a fully contributing team member as soon as possible. We are looking at fast tracking the capabilities of our Graduates with the support of the Professional Development Program." Ron Yates, spokesperson for Abigroup said.

Graduates get experience early on reporting against internal competency standards. These reports can then be modified to present for assessment as Career Episode Reports.

"We look forward to providing our Grads with a range of skills and experiences important for their career development and for Abigroup's capabilities to deliver on organisational priorities." Mr Yates said.

For more information about how your organisation might implement a Professional Development Program for maximum success, contact the Sydney Division Industry Relationship Manager, Elana Huthnance, by email at ehuthnance@engineersaustralia.org.au or phone on 9410 5618.



Phillip Biggs (right) with engineers involved in the UGL program – Trent Murrhry, Colin Walwyn, Geoff Ladbrook, Nathan Lucas and Adam Wee.

2011 David Dewhurst Award Nominations Now Open!

Each year the award is presented for outstanding service to the field of biomedical engineering. The Award is given to a member of the biomedical engineering team who has made a significant contribution to the discipline. For more information, including eligibility criteria or to nominate online please visit: www.engineersaustralia.org.au/biomedical/awards

2011 Chemical Engineering Awards of Excellence

Nominations Close 27 May!

The Australian and New Zealand Federation of Chemical Engineering is now seeking nominations for the 2011 Chemical Engineering Awards of Excellence. The awards provide a showcase for outstanding achievement in the field of chemical engineering. The federation has instituted these awards to help encourage and recognise excellence and to highlight the contribution made by Australian and New Zealand Chemical Engineers to the community. The Awards will be presented at Chemeca 2011. Applicants are sought from industry, academia and the public sector. To nominate please visit: www.engineersaustralia.org.au/chemical/awards

YOUR PROFESSIONAL DEVELOPMENT – DIARY DATES

Most events are held at EA Auditorium, Ground Floor, 8 Thomas Street, Chatswood with refreshments provided prior to the session. As events are subject to change or cancel at short notice, please check our website www.engineersaustralia.org.au/sydney/events for up-to-date information.

PLEASE NOTE: To view video streams and to download slides of selected Technical Presentations please visit Online CPD at our website: www.engineersaustralia.org.au/sydney/onlineCPD

MAY

Thurs 19 Mechanical Branch

"Engineering a Superkart"
Auditorium
18:00 to 21:00
Contact: Andrew Lowe
Email: AndrewLowe@ShelstonIP.com

Tues 24 Water Engineering Panel

"Base Flow For Catchment Simulation"
Auditorium
17:30 to 19:30
Contact: Grantley Smith
Email: g.smith@wrl.unsw.edu.au

Tues 24 Civil and Structural Engineering Panel

"Steel Compliance Topic"
Zenith Theatre, Corner Railway & McIntosh Street
17:30 for 18:00 to 19:30
Contact: John Nichols
Email: JohnN@ccaa.com.au

Wed 25 Toastmasters, Sydney Division

"Privacy"
Roseville Memorial Club,
64 Pacific Highway
19:00 to 21:15
Contact: Sandeep Mathur
Mobile: 0414300333

Wed 25 Nuclear Engineering Panel

"Reactor Safety at Fukushima"
Auditorium
17:30 for 18:00 to 19:30
Contact: Don Higson
Email: higsond@bigpond.net.au

Thurs 26 Joint Electrical Branch – Engineers Australia, IET, IEEE

"The New Electrical Equipment Safety System – Halfday Seminar"
Auditorium
12:30 for 13:15 to 16:30
Contact: Allan Sangster
Email: Allan.sangster@gmail.com

Thurs 26 Joint Electrical Branch – Engineers Australia, IET, IEEE

"Oceanography/Ocean Eng. Society"
Auditorium
17:30 for 18:00 to 19:30
Contact: Allan Sangster
Email: Allan.sangster@gmail.com

Tues 31 2020 DirectInvest Pty Ltd

"DIY Investment Seminar"
Auditorium
18:45 to 19:45
Contact: Shafei Ou-Yang
Email: seminars@2020directinvest.com.au

JUNE

Wed 1 Joint Institutions IMarEST & RINA

"Design and Construction of Composite Patrol Boats"
Auditorium
18:00 for 18:30 to 20:00
Contact: Graham Taylor
Email: graham.taylor@tech@gmail.com

Wed 1 Railway Technical Society of Australasia Syd Div Chapter

"Digital Train Radio, UGL"
Meeting Room, Central Station Concourse, Sydney
11:30 to 12:00
Contact: Katharina Gerstmann
Email: nsw-chair@rtsa.com.au

Thurs 2 Young Engineers Australia, Sydney Division

"Renewable Energy: Marine & Geothermal"
University of Technology Sydney, UTS Campus Building 4, Level 2, Room 35
17:30 for 18:00 to 19:30
Contact: Jon Lee
Email: jonhlee@optusnet.com.au

Sat 4 Young Engineers Australia, Sydney Division

"YEAS Debating Workshop"
Auditorium
10:00 to 16:00
Contact: James Bencke
Email: james.Bencke@resmed.com.au

Wed 8 Toastmasters, Sydney Division

"Football/Educational"
Roseville Memorial Club,
64 Pacific Highway, Roseville
19:00 to 21:15
Contact: Sandeep Mathur
Mobile: 0414300333

Wed 15 Society of Fire Safety

"Fire Engineering Documentation"
Auditorium
15:30 for 16:00 to 18:00
Contact: Peter Gardner
Email: Peter.Gardner@exova.com

Fri 17 Engineers Australia Sydney Division

"CPEng Workshop"
Board Room
9:30 to 12:30
Contact: Julia Bresolin
Email: jbresolin@engineersaustralia.org.au

Sat 18 Engineers Australia Sydney Division

"CPEng Workshop"
Board Room
9:30 to 12:30
Contact: Julia Bresolin
Email: jbresolin@engineersaustralia.org.au

Tues 21 Civil and Structural Engineering Panel

"Reinforcing Steels"
Zenith Theatre, Corner Railway & McIntosh Street
17:30 for 18:00 to 19:30
Contact: John Nichols
Email: JohnN@ccaa.com.au

Wed 22 Young Engineers Australia, Sydney Division

"YEAS Debating Evening"
Auditorium
18:30 to 21:00
Contact: James Bencke
Email: James.Bencke@resmed.com.au

Wed 22 Toastmasters, Sydney Division

"New Financial Year Resolutions"
Roseville Memorial Club,
64 Pacific Highway, Roseville
19:00 to 21:15
Contact: Sandeep Mathur
Mobile: 0414300333

Thurs 23 Joint Electrical Branch – Engineers Australia, IET, IEEE

"Baslink Experience Over 5 Years"
Auditorium
17:30 to 19:00
Contact: Allan Sangster
Email: allan.sangster@gmail.com