

ENGINEERS SYDNEY



THE NEWSLETTER OF THE SYDNEY DIVISION OF ENGINEERS AUSTRALIA

FEBRUARY 2011

SYDNEY DIVISION KEY SPONSORS



PRESIDENT'S MESSAGE

2011 – Humanitarian Year

I am so incredibly excited to be here!! My excitement comes from so many factors, that is, Engineers Australia – from the incredible engineers that I will meet during the course of this year to attending events which showcase the wonders of the different disciplines of engineering. I'm also very excited that this year, 2011, is the Year of Humanitarian Engineering, and work at Division and National level is already under way for organising many events which highlight the humanitarian work that engineers do.

In its broadest sense, all engineers partake in Humanitarian Engineering as engineering is the discipline for helping others – from the bionic eye, to the building of sustainable infrastructure, engineering provides an opportunity for technical problem solving, for humanity. Good engineering though, often goes unnoticed. It is typically when disaster strikes, such as the recent floods in Queensland and Victoria that the importance of engineering comes to the foreground. Engineers are imperative in such situations – not only for assessing the infrastructure after the event, in order to determine whether building can be safely entered into, for example, but also for developing future technologies to help in future disasters. It has been brought to my attention that one of the greatest challenges in such disasters often arises in the collaboration between the different aid organisations on the ground – engineers are perfect for project managing such situations. Thus, this year of humanitarian engineering is broader in its outreach in that it is beyond what is typically believed by the public to be “engineering”. It is really about showing the public how engineering can be used to better the progress of humanity. When it comes to disaster

relief, for example, it is also about working in a team environment with doctors, emergency personnel, and other aid workers to ensure that the best result can be achieved.

I would like to encourage you all to visit the website for the Year of Humanitarian Engineering (see: <http://makeitso.org.au/year-of-humanitarian-engineering/>), and if you have been involved in a project please share your story on the site. And most importantly, please spread the news – to your colleagues, family, or friends. Let's show others what this great profession does and can do!

Finally, I would like to say THANK YOU to all of the members who have given me the opportunity to represent them (that's you!). I also would like to thank my predecessor, Ian Ackland, who has given me some big shoes to fill! And of course, the job would not be possible without the Division Committee, the various Division groups, and the office at Sydney Division, who put in many hours over the weeks and months to deliver the events, technical talks, and plans for the membership. I hope I get to meet many of you over the course of year, and I hope that we can work together to show Australia what engineering is all about.

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



Maryam Khajeh
Sydney Division President

CALL FOR EXHIBITORS

2011 ENGINEERING EXPO

DATE: 6 APRIL VENUE: SYDNEY MASONIC CENTRE

If your company would like to be a part of the Young Engineers Careers Expo 2011, please contact Aimee Najdovski on 9410 5613 or anajdovski@engineersaustralia.org.au

PLACES ARE LIMITED SO GET IN EARLY!



ENGINEERS AUSTRALIA
Sydney Division

→ 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 Kolodizner
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 Tooher

Appointed Members:

**Young Engineers Australia,
Sydney Division** – Jonathan Lindsay
Women in Engineering – Julie Mikhail
Regional Group Representatives – Jon Thompson
and Marlene van de 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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Engineers Australia Sydney Division

Editor – Steve Finlay

Designed by Engineers Media

Deputy President's Corner

Now that Maryam Khajeh has officially taken up the role of Division President, I too must step up from Vice Deputy to Deputy.

I was introduced to Engineers Australia in 1988 as a student at UTS, and over the years have been involved with the Quality Panel, Transport Panel, Risk Engineering Society and Sydney Division Committee – so the overall workings of EA are not new to me, but the detail is continually being revealed day by day.

The Staff at National and Divisional Offices provide ongoing stability and consistency for our institution, while the contribution of so many volunteers drives us forward.

I'm also conscious of ensuring that 'engineers make things happen' within the context and support of their respective organisations – whether public or private. To this end I am also involved with IPWEA (the Institute of Public Works Engineering) and Consult Australia (formerly the Association of Consulting Engineers Australia). My vision is to see all parts of the engineering profession working systematically together towards clear objectives.

Make 2011 the year to get more involved with your engineering profession, as we each play our part in responding to the challenges of our communities and the environment in which we live.

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



The joint committees of The Australian Institute of Energy Sydney Branch, Engineers Australia Sydney Division, the Academy of Technological Sciences and Engineering (ATSE), Australian Nuclear Association (ANA), Nuclear Engineering Panel of EA (NEP) and Australian Young Generation in Nuclear (AYGN) present:

Advanced Nuclear Power Systems for Long-term Energy and Climate Security

**By Prof. Barry W. Brook (PhD), Australian Research
Council Future Fellow (Professorial Level 3)**

Sir Hubert Wilkins Chair of Climate Change

**Director of Climate Science, The Environment Institute,
University of Adelaide**

Date: Thursday, 10 March, 2011

Time: 5:30pm Networking

6:00-6:50pm Presentation by Prof Brook

6:50-7:45pm Panel Discussion – Prof Brook

and eminent energy professionals

Venue: Engineers Australia, Harricks Auditorium,
8 Thomas Street, Chatswood

Cost: Free – However registration is essential.

Registration: Please register online.

THE ANNUAL MEETING OF THE FOUR SOCIETIES

The Nuclear Engineering Panel of the Sydney Branch of Engineers Australia, The Australian Nuclear Association, The Royal Society of New South Wales and The Australian Institute of Energy

“Geothermal Energy – Current State of Play and Developments”

**Dr. Stuart Mc Donnell, Chief Operating Officer for
Geodynamics and Mr Stephen de Belle of Granite Power**

Venue: Hamilton Room, Trade & Investment Centre,
Industry & Investment NSW, Level 47, MLC Centre,
19 Martin Place, Sydney

Date: Thursday, February 24, 2011

Time: 5:30 for 6pm

Cost: Free admittance

Registration: Preferred by Noon, Monday 21 February
to sydney@aie.org.au



**ENGINEERS
AUSTRALIA**
Sydney Division

Level 3, 8 Thomas Street, Chatswood NSW 2067
(PO Box 1389, Chatswood 2057)
phone 02 9410 5600 fax 02 9410 0000
sydney@engineersaustralia.org.au www.engineersaustralia.org.au/sydney

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Young Engineers

Like many young Australians, I love travelling and have spent nearly 4 years of the past 8 since finishing high school, travelling, working or living abroad. One of the things I enjoy the most about travelling is seeing the amazing engineering feats that have been achieved.

On a recent trip to France I decided, much to the dismay of my girlfriend, that I had to see the Millau Viaduct and insisted that we make a 'minor' detour on our journey down the west coast to see it. The Millau Viaduct is one of the greatest cable-stayed road bridges ever built, demanding a phenomenal amount of engineering skill and vision. Opened in 2004, the bridge spans the valley of the river Tarn and makes up the crucial link in the Autoroute joining Paris with the south coast. The bridge's masts reach up to 343m, taller than the Eiffel Tower, making it the tallest bridge in the world. The viaduct's deck was fabricated on site in 342m sections and slid out onto the mammoth pylons by a huge automated hydraulic ram system – an operation that had never been successfully achieved on such a large scale before. With its towering masts and long flowing cables, the viaduct truly is a magnificent example of engineering excellence and I was incredibly excited about seeing it.

After driving some 400km across France and spending a small fortune on tolls, the moment to behold this marvel came and unfortunately I was bitterly disappointed!! You see, we had ventured inland in the middle of winter and neglected to account for the cold, dense fog that sits in the Millau valley for much of the season completely hiding the bridge. The visitor centre wasn't the teeming tourist attraction I was expecting; we were the only ones there and the only clue that a bridge even existed was the sound of the traffic disappearing out into the clouds. Even though on this occasion I didn't get to see the structure, I am still able to appreciate that without the skills of hundreds of structural and civil engineers, including the esteemed Dr Michel Virlogeux, a bridge this tall would have never made it off the page. And being a mechatronic engineer I can't help but be blown away by the automated precision of the hydraulic ram system that was developed by a team of



mechanical, electrical and software engineers in Spain that is now used all over the world for constructing bridges, offshore structures and major buildings. Hopefully I'll get another chance to see the Millau Viaduct, only next time I'll be sure to check the weather beforehand!

Back on the home front the YEAS committee has been working hard organising events and activities for the coming year holding our annual Planning Day on the 22nd January. The 2011 Engineering Careers Expo will be held on the 6th April at the Sydney Masonic Centre and is shaping up to be bigger than ever with the introduction of a discussion forum designed to help students and graduates get that job interview, nail it and take the job. To find out more about this and other upcoming events or how to get involved with YEAS head to our website (<http://www.engineersaustralia.org.au/yeasyd/>) or find us on Facebook (Young Engineers Australia Sydney).

*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.

→ 2011 year of humanitarian engineering

Engineers Australia is proud to announce that **2011 is the Year of Humanitarian Engineering** – a year in which we will recognise the role of engineering in improving quality of life and disaster recovery in Australia and abroad.

All statistics sourced from www.globalissues.org

It's up to us to engineer a better world.

makeitso.org.au/humanitarian

2.6 BILLION PEOPLE



LACK ACCESS TO BASIC SANITATION

1 IN 4 PEOPLE



LACK ACCESS TO ELECTRICITY

1 IN 6 PEOPLE



LACK ACCESS TO SAFE DRINKING WATER

Western Sydney Regional Group

Western Sydney Regional Group had a successful site visit at Resmed Site visit and a fantastic Christmas event.

WSRG Engineers Australia visited the ResMed facility on Wednesday 24 November 2010. The 24 members who attended were provided with presentation on the ResMed products, and an overview of what ResMed can do for sleep disorders. The group was then given a personalised tour of this state of the art manufacturing facility, which is a pleasant campus layout with an emphasis on the well being of their employees.

The group toured the areas of Liquid Silicon Rubber (LSR), Mask Assembly, Machine Assembly and Ventilation Assembly. Robotics are in the LSR area, while the Mask and Machine assembly is by manual means. These methods are the most efficient method for the intricate assembly of the face masks and positive airway pressure devices. The high quality products manufactured on site are exported globally, with the USA being the largest market.

At the conclusion of the visit the appreciation of the WSRG was extended to the ResMed staff that had assisted with the tour. Overall members agreed that it was a very interesting and successful visit.

The Christmas event was again a wonderful opportunity to meet up and wish each other all the best for the holidays. The group will have its first meeting of the year on 14 February at 6pm in Kingswood. If you interested in joining us, please contact us on wsrsg@engineersaustralia.org.au.

If you are interested in getting involved or to learn more about WSRG, please



contact us on wsrsg@engineersaustralia.org.au, or visit our WSRG website at <http://www.engineersaustralia.org.au/wsrsg> or join our WSRG Young Engineers Facebook group: Young Engineers Australia Western Sydney Regional Group.

*Dominic Cancian
(Committee Member)*

eea
ENGINEERING EXCELLENCE AWARDS
SYDNEY 2011

ENTRIES NOW OPEN

Key dates

Level 1 entries close:	25 March 2011
Judges review of Level 1 entries:	15 April 2011
Level 2 (finalists) information evening:	18 May 2011
Level 2 (finalists) entries close:	17 June 2011
Level 2 judging:	July - August 2011
Awards Evening:	16 September 2011

Project Planning & Delay Analysis Half-Day Seminar

Sydney, 22 March 2011

blueVisions in conjunction with Norton Rose Lawyers will present a half-day seminar on the following topics:

Standards of Practice for Project Planning
with Adel Khreich – CEO, blueVisions

A Legal Perspective to Programming of the Works
with Keith Redenback – Partner, Norton Rose

Analysing Construction Delays
with George Diab – Principal, Contract Services, blueVisions

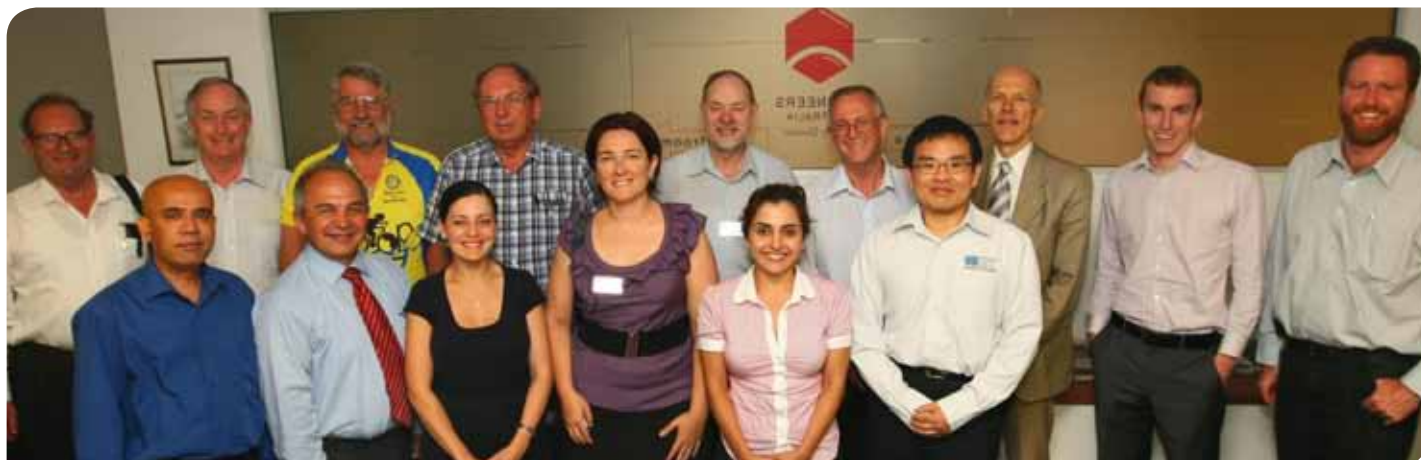
Time & Venue: 12.30 - 4.30pm, 99 Mount St North Sydney
Book online www.im.edu.au or contact blueVisions

Blue Visions Management Pty Ltd
Level 14, 99 Mount Street p +612 8908 9888
North Sydney NSW 2060 f +612 9460 2088
www.bluevisions.com.au ABN 93 095 779 972

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Welcome the New Sydney Division Committee for 2011



The new Sydney Division Committee for 2011 (l-r) Jon Thompson, David Edwards, Kevin Dixon, Norm Himsley, Ian Ackland, John Nichols, Donald Hector, Jonathan Lindsay, Brendyn Williams, Debashis Raha, Alex Baitch, Julie Mikhail, Rosemary Crowhurs, Maryam Khajeh and Jon Lee.

Illawarra/Sutherland Regional News

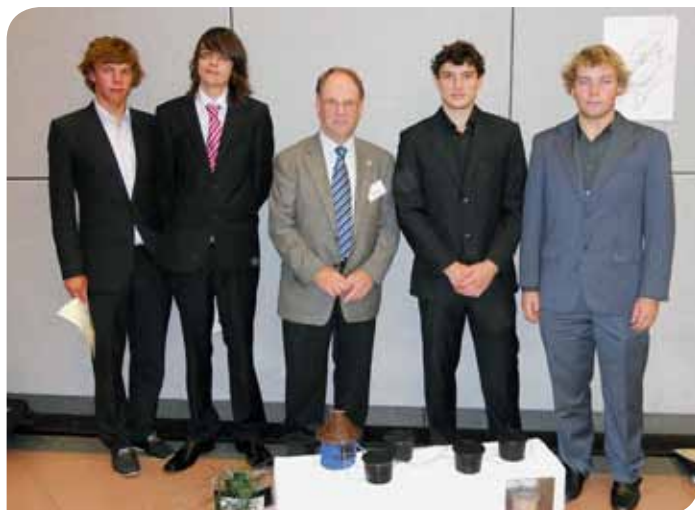
The ISRG Committee would like to thank the following companies for their kind sponsorship for the ISRG/YEA-I Annual General Meeting held on Wednesday 10 November:

Coffey Geotechnics, KFW, Spruson & Ferguson, Jones Nicholson Pty Ltd, Faculty of Engineering at the University of Wollongong, Cardno, Stolway, BlueScope Steel and Illawarra Coal.

The ISRG Committee would also like to thank the following companies for their kind sponsorship for the "Outstanding Achievement Award" for Year 10 High School Students in Maths & Science: Coffey Geotechnics, Douglas Partners, Faculty of Engineering at the University of Wollongong, Faculty of Informatics at the University of Wollongong, GDH and Beca.

The sponsorship covered 30 High Schools in the Illawarra/Sutherland Region. Each student received a certificate, cheque for \$100.00 and information on the different engineering disciplines.

On Friday 19 November David Hooper, Dr Michael Yastreboff and I attended the University of Wollongong Faculty of Engineering Creative Design Competition for 1st Year Engineering Students. The ISRG Committee sponsors the "Best Oral Presentation". The competition has now been running for 41 years and this year the competition was based on environmental design problems set out by the Engineers Without Borders National Competition Challenge. The problems asked students to find solutions to help remote Aboriginal Communities living in south western Queensland in partnership with Kooma Traditional Owners Association Incorporated.



Winning students with David Hooper (centre).

The Winners of the "Best Oral Presentation" and judged by David and Michael were: Joshua Cahill, Piers Hardwich, Scott McCormack, James Passfield with their project on Water Management System – a simple way to distribute drinking water to the local community and also recycle grey and black water.

Each student received a \$100.00 gift voucher from the University of Wollongong Book Store.

*Elaine Bailey, Regional Co-Ordinator
Illawarra/Sutherland Region*

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- Social media programs and systems

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- Surgical instruments & drug delivery devices
- General healthcare products & services

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Electrical and ITE Branch Students Prize Night

The Electrical and ITE Branch of Sydney Division organised Student prizes night on Tuesday 30 Nov 2010, where the top 2010 final year Electrical and IT students from each Engineering Faculty within Sydney Division's geographic area, as selected by the relevant faculty, are presented with a Certificate of recognition. In this annual event the Branch also invites the winner of the National Professional Electrical Engineer of the Year (NPEEOY) Award to address the young graduates. Mr Ken Brown, General Manager/ System Management, Western Power, the 2010 NPEEOY Award winner, was the eminent speaker on the night. The Award is one of the prestigious awards presented by the National Electrical College Board of Engineers Australia for an outstanding senior electrical engineer member of the College who would be a good role model for younger members of the profession.

The Branch invited the speaker and the student winners for dinner and will also present a monetary award to each student winner at the individual award night of each Engineering Faculty during 2011.

The 2010 Student Winners are:

- Adrian Denis Bradd, Electrical Engineering, University of Western Sydney;
- Christopher Kindinger, Computer Engineering, University of Western Sydney;
- Yu Feng Lai, Electronics and IT Engineering, Macquarie University;
- Adrian Brian Ratter, Electrical Engineering, University of New South Wales;
- Rachpon Kalra, Computer Science & Engineering, University of New South Wales;

- Jensyn Luc, Software Engineering, University of Technology Sydney;
- Jessica Kleinberg, Electrical Engineering, University of Technology Sydney; and
- Amy Dee Fu, Electrical Engineering, Sydney University.



Yu Feng Lai, Jensyn Luc, and Amy Dee Fu. Also shown in the group photo are: Ken Brown, the 2010 NPEEOY award winner and Gohulan Markando and Amal Hanna, the organisers of the event.

Industry Relationship Manager Sydney

Late last year, Elana Huthnance commenced at the Sydney Division as the Industry Relationship Manager. In this role, she works with a variety of organisations that have a commitment to developing career pathways for their engineering staff as well as engineering capacity within their organisations.

In most cases, these organisations, in partnership with Engineers Australia, implement a Professional Development Program (PDP). The PDP is a structured and supported pathway for engineering staff to achieve Chartered Status, providing opportunities for continuous assessment and feedback.

Engineers who have achieved Chartered Status have not only met internationally benchmarked competencies in engineering practice and recognisable status in the industry and broader community, but have access to national registration and government-legislated preferential insurance cover.

Organisations that are involved in the PDP have found that engineers who have achieved Chartered Status require less supervision and are able to take on more professional responsibility; are more confident and display greater leadership skills; and have globally transferable recognition and enhanced career opportunities both within their organisation and beyond.

Elana comes to Engineers Australia with over ten years experience working with membership organisations in the health sector. Most recently she worked for the Pharmacy Guild of Australia national office, coordinating the roll out of a number of national programs across the network of 5,000 community pharmacies.

For more information about the Professional Development Program and Engineers Australia PDP partners, contact Elana by email on ehuthnance@engineersaustralia.org.au or by phone on 02 9410 5618.



Elana Huthnance

Abigroup WIE Christmas Luncheon

The WIE hosted the Abigroup WIE Christmas Luncheon on 22 November 2010 at the American Club. This event was well attended by 80 attendees from engineering consultants and contractors. The guest speaker at the luncheon, Dr. Nancy Jan Davis, is a former American astronaut very inspirational.

Her career is in no-doubt extremely challenging and amazing. Even though she was the only woman in the engineering class, and a minority woman engineer at NASA, she achieved her goals and got selected to join two space flights as the mission specialist, and the third flight as the commander.

She started her presentation by mentioning her education from Bachelor to Doctorate Degree in Mechanical Engineering. This has shown the importance of basic qualification and knowledge in advancing in her career. She had emphasised on the importance of persistence in reaching her goals. She had seized the opportunities to talk to the astronauts and asked questions when she worked with NASA as an engineer.

She was declined twice for the application to become an astronaut, at which there were 5000 applicants and about 128 applicants were interviewed and only a handful were selected. Dr Davis had to go through three years of basic training and specific training prior to the space flights. She had the opportunity of working with scientists with different cultural backgrounds and disciplines from Japan and Russia to complete the flight missions. It's amazing to see the photos of her activities and experiments in the space shuttle and the pretty pictures of Australia taken from space.

After three space flights, Dr. Davis knew that she wouldn't be an astronaut for much longer as the work was very demanding. She started to take management courses and looked for management positions. She had also sought advice from the people who had walked the career path that she wanted – the managers at NASA. She was then assigned to the NASA Headquarters as the Director of the Human Exploration and Development of Space (HEDS), Independent Assurance Office for the Office of Safety and Mission Assurance.

Then she was transferred to the Marshall Space Flight Centre and took up positions as Director of the Flight Projects Directorate. After the Columbia accident, she was appointed the Head of Safety and Mission Assurance at Marshall where she assured the safe return to flight of the space shuttle. Dr. Davis retired from NASA in 2005 and she is currently the Vice President and Deputy General Manager with Jacobs Technology at Marshall.

Honeywell Engineering Summer School (HESS) 5-10 December 2010

The Honeywell Engineering Summer School is an Engineers Australia Sydney Division initiative supported by Honeywell, NSW 'Engineering' Universities and participating Rotary Districts, and this year was hosted by the University of New South Wales. The Honeywell Engineering Summer School has been sponsored by Honeywell for 13 years. The major aim of the summer school is to give NSW and ACT high school students a better understanding of what engineering is and how it works in every day life, and the ability to visit engineering universities to aid in their selection of university.

With an estimated shortfall of 25,000 engineers by 2012, the Summer School is a resource to ensure that young people have engineering in the forefront of their minds when looking at career options.

The 2010 Honeywell Engineering Summer School brought together 103 Year 11 students from across NSW and ACT. 80% of the students were from regional areas. Half of the students are funded or partly funded by Rotary and High Schools. The students are accommodated at the Sydney University Village, Newtown, and mentored for the week by live-in houseparents, themselves Engineering students from the host university – The University of New South Wales who also facilitated the Farewell Dinner at the Roundhouse during the week.

During the week-long program the Summer School students met and interacted with professional engineers employed by government, private companies, researchers and academics from a wide range of engineering backgrounds. They gained valuable insight into career opportunities available to men and women in engineering. Their visits to industry provided a valuable opportunity to gain first hand experience in the role of professional engineers in a wide range of activities, including the management of major projects. The student's learnt about the role of professional engineers in society and different disciplines within engineering.

HESS 2010 students attended lectures and demonstrations at the University of New South Wales (Host University); University of Sydney; University of Technology, Sydney; University of Western Sydney; and University of Wollongong.

Site visits included Honeywell; Cochlear; RTA Iron Cove Bridge; ResMed; TransGrid; Bluescope Steel; RAAF Base; and Penrith Sewage Treatment Plant.

Another significant program inclusion was the Careers evening where students had the opportunity to meet and talk informally with a broad range of engineers. Guests included – Maryam Khajeh, President Sydney Division; Jonathon Lindsay, Arup; James Bencke, ResMed; Michael Bewley and Gary Caldarola, Cochlear; Andrew Botros, Expressive Engineering; Elizabeth Sim and Michael Kolos, RTA; Blair Oliver, Vibropile; Ben Ricketts, Hyder Consulting; and James Leigh, AECOM.

In response to the Survey Report question of "do you think you will go on to study engineering", the response was overwhelming with 92% responding YES, with civil engineering identified as the discipline the majority of the students wish to study at university followed by biomedical.



Students and BlueScope in Wollongong.

Each year HESS becomes increasingly more popular, and therefore more difficult for students to gain and secure a placement in the program. Applications are open in May, with brochures sent to all NSW and ACT High Schools, participating Rotary Clubs, and advertised on the Engineers Australia Sydney Division website.

Our sincere thanks are extended to Honeywell for their sponsorship, Rotary Clubs for their financial assistance to many of the students, the participating Universities, the people who made the site visits possible, Careers Evening guests, and last but certainly not least, the live-in houseparents from University of New South Wales – without their hard work and dedication the program would not be possible, and the students who all contributed in making HESS 2010 a wonderful success.



Student of the Week, Erin Wilson and Sydney Division President Maryam Khajeh.



Connecting Engineering Women

Join WIE – Sydney for our

International Women's Day Launch

Thursday 10th March 2011

6:30pm

Venue: Arthouse Hotel

275 Pitt St, Sydney

For further info contact:

sydneywie@engineersaustralia.org.au

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: Selected electronic technical presentations are available to download online at 'E-Learning' located on the Sydney Division website.

FEBRUARY

Thurs 17 Risk Engineering Society (NSW) & Safety Institute of Australia (NSW)

"OHS Risk Management Strategies for Contractor Management"
Sydney Water Corporation,
1 Smith Street, Parramatta
07:00 to 09:30
Contact: natadmin@sia.org.au

Thurs 17 Mechanical Branch

"The Smart Relief Valve"
Auditorium
18:00 for 18:30 to 21:00
Contact: Geoff Stone
Email: geoffrey.stone@yahoo.co.uk

Fri 18 Engineers Australia Sydney Division

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

Sat 19 Engineers Australia Sydney Division

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

Wed 23 Toastmasters, Sydney Division

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

Thurs 24 Joint Electrical Branch – Engineers Australia, IET, IEEE

"UBO Wireless"
Auditorium
17:30 to 21:00
Contact: Allan Sangster
Email: allan.sangster@gmail.com

Thurs 24 Nuclear Engineering Panel – Four Societies' Meeting

"Geothermal Energy – Current State of Play and Developments"
Hamilton Room, Trade & Investment Centre, Industry & Investment NSW Lvl 47, MLC Centre, 19 Martin Place Sydney
17:30 for 18:00 to
Contact: Denis Cooke
Email: denis@decoa.com.au

MARCH

Wed 2 Joint Institutions IMarEST & RINA

"Technical Presentation"
Auditorium
18:00 for 18:30 to 20:00
Contact: Graham Taylor
Email: graham.taylor@tech@gmail.com

Wed 9 Toastmasters, Sydney Division

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

Thurs 10 Nuclear Engineering Panel Joint Seminar

"Advanced Nuclear Power Systems for Long-term Energy and Climate Security"
Auditorium
17:30 to 20:00
Contact: Tony Irwin
Email: tonyirwin@bigpond.com

Tues 15 Centre for Eng. Leadership and Management

"Leadership the fatal flaw"
Auditorium
17:30 for 18:00 to 19:00
Contact: Victor Prados-Valerio
Email: sydneycelm@engineersaustralia.org.au

Thurs 17 Mechanical Branch

"PPP Trains-Sustainability in Design"
Auditorium
18:00 for 18:30 to 21:00
Contact: Andrew Lowe
Email: AndrewLowe@ShelstonIP.com

Tues 22 Water Engineering Panel

"Groundwater Surface Water Interactions"
Auditorium
15:30 to 17:30
Contact: Grantley Smith
Email: g.smith@wrl.unsw.edu.au

Wed 23 Nuclear Engineering Panel

"Australia's Nuclear Choices"
Auditorium
17:30 for 18:00 to 19:30
Contact: Don Higson
Email: higsond@bigpond.net.au

Wed 23 Toastmasters, Sydney Division

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

Thurs 24 Joint Electrical Branch – Engineers Australia, IET, IEEE

"Smart Grid"
Auditorium
17:30 to 21:00
Contact: Allan Sangster
Email: allan.sangster@gmail.com

Tues 29 Civil and Structural Engineering Panel

"Gateway Upgrade Project"
Zenith Theatre, Corner Railway & McIntosh Streets, Chatswood
17:30 for 18:00 to 19:30
Contact: John Nichols
Email: JohnN@ccaa.com.au

Wed 30 Joint Institutions IMarEST & RINA

"Technical Presentation"
Auditorium
18:00 for 18:30 to 20:00
Contact: Graham Taylor
Email: graham.taylor@tech@gmail.com