



ENGINEERS  
AUSTRALIA  
Canberra Division

# engineers canberra

## From the President



mean for the engineering team.

With the economy strengthening and the government still committed to fiscal stimulus spending, funding should be available for new development projects and on-going programs.

Despite the postponement of a bill for the introduction of an Emissions Trading Scheme, the government has allocated significant sums to address climate change. Climate change remains a core challenge for all of us. The government has reiterated its target range of reducing greenhouse gas emissions by between 5 and 25 per cent by 2020. In addition, the government has decided to increase the renewable energy target to 20 per cent by 2020.

As the Federal Treasurer, the Hon, Wayne Swan, MP, has just announced the 2010–2011 budget, I thought it timely to comment on what this might

We, as technology professionals, are well placed to take the lead in developing solutions to meet these challenges and to ameliorate global warming and other effects of climate change. The \$652 million for a Renewable Energy Future Fund announced in the budget will be part of an expanded \$5.1 billion Clean Energy Initiative. The purpose of the fund will be to assist in the development of large and small scale renewable energy projects and to improve and increase energy efficiency measures undertaken in industrial, commercial and residential settings. This comes on top of committed support for energy efficiency, renewable technologies and clean coal of over \$10 billion.

Canberra is already benefiting from these initiatives. As reported in the *Canberra Times* on 13 May, Canberra solar technology company Wizard Power and the ANU's Big Dish solar thermal project have received \$60 million from the Commonwealth Government to develop a solar power



plant. Funding provided in the budget will also be used for solar thermal base load power generation R&D.

For many years now Engineers Australia has been actively campaigning for better strategic planning and increased expenditure by governments on infrastructure. It is therefore pleasing to see \$5.6 billion allocated for a new infrastructure fund and \$1 billion to renew rail networks. Although more is needed, the allocation of these funds is a step in the right direction. The government also reaffirmed its commitment to a National Broadband and has made provision in the Budget for the roll-out of NBN, subject to a final response to the implementation study.

All of these infrastructure initiatives will mean more opportunities and an increased demand for members of the engineering team.

As we know, Australia faces an acute and on-going shortage of skilled labour. Engineers Australia has been active

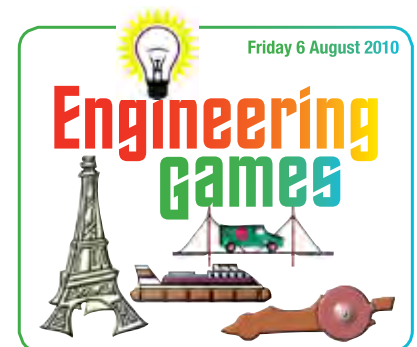
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## Volunteers sought to run the Engineering Games

Canberra Division is seeking volunteers, as well as a coordinator, for the Engineering Games sub-committee. The position has become vacant due to the retirement of our former coordinator after more than 15 years of active involvement with the games. The Engineering Games have been a highlight feature of Australian Engineering Week in Canberra Division for over 23 years and, we are keen to

continue this legacy of providing an opportunity for students, of all ages, from the ACT and region, to continue participating in a hands on school based engineering program.

If you are interested in becoming the coordinator or a volunteer on the Engineering Games sub-committee please email Colleen Mays, [cmays@engineersaustralia.org.au](mailto:cmays@engineersaustralia.org.au) or phone 6270 6519.



*From the President, continued from page 1*

in addressing this problem. The \$661 million for the Skills for Sustainable Growth strategy is a welcome addition to the funding for training and skills development, particularly in the areas identified in the budget of infrastructure projects, the resources sector, and renewable energy.

There is also increased funding allocated to health, with the likelihood of increased opportunities for our biomedical engineers and technicians, and those involved in construction.

Overall, I see exciting opportunities for the engineering team for the foreseeable future.

Led by Past President Bob Nairn, Canberra Division has a working group planning events to celebrate Canberra's centenary, now only three years away. The group would welcome your ideas on possible events and other activities. If you wish to make an input, please contact Vesna Strika, Director, Canberra Division.

I encourage you all to attend our technical meetings. Over the past few months we have had some excellent presentations, including one by Mr Fred Abbink under our Eminent Speaker program entitled: 'Survival of the Fittest: 90 Years of Dutch Aeronautics – RDT&E in a Globalising Environment'. Where possible, copies of presentation slides are placed on the Canberra Division website.

Please look at the program on the Events page of the website for upcoming events and any changes to the program.

*Denton Bocking  
President*

## ATTENTION RETIRED ENGINEERS

If you would like to be included on the mailing list for the Retired Engineers Monthly Events, please contact Colleen Mays on (02) 6270 6519 or [cmays@engineersaustralia.org.au](mailto:cmays@engineersaustralia.org.au)

## Student Prizes

### HA Jones Medal Winner

The HA Jones Medal was recently awarded to Michael Chishlom who pursued his engineering degree course with the most distinction at the Australian National University.

This award is named after H A Jones OBE, an eminent Electrical Engineer who spent the majority of his life in the Canberra region. He commenced work in 1928 as a Cadet Engineer with the Federal Capital Commission and retired in 1975 as the first Chairman of the ACT Electricity Authority, having held the appointment since 1963. As Chairman, he witnessed the demand for electrical power in the region increase fourfold, and built the infrastructure necessary to supply and to manage electricity supply in the National Capital into the future. He was awarded the OBE in 1968 for his service to the electricity supply industry.



*Michael Chishlom was presented with the HA Jones Medal by Canberra Division President Denton Bocking.*

### CIT Student Prize Winner

This award was recently established by Engineers Australia Canberra Division to give recognition to a student that showed excellence during their studies in one of the engineering disciplines at the Canberra Institute of Technology (CIT).

The recipient of the 2010 award was Tim McCulloch. Tim was an

outstanding student throughout his studies in electronic engineering. Tim not only showed excellence in his grades with 11 High Distinctions and 19 Distinctions but also in his project work. The project Tim completed was an innovative combination of switch mode power supplies and microprocessors. The complexity of

the project was above and beyond what is normally expected and produced by our students and showed his high level of understanding of electronic engineering.

We congratulate Tim on his achievements.



*(left) Tim McCulloch receiving his award from Jennifer Murray, Deputy President Engineers Australia*

## ENGINEERS AUSTRALIA CANBERRA DIVISION

# TECHNICAL PROGRAM

### CPD events for the Engineering Team

All presentations will be held at 'Engineering House', 11 National Circuit, Barton unless otherwise specified.  
For catering purposes please RSVP for all meetings to [cmays@engineersaustralia.org.au](mailto:cmays@engineersaustralia.org.au) or phone 6270 6519.  
Full details of each meeting can be found at [www.engineersaustralia.org.au/canberra](http://www.engineersaustralia.org.au/canberra) under Technical Program.

Date/time	Branch/Group	Topic	Speaker/notes
<b>JUNE 2010</b>			
<b>Thu 3</b> 5.30 for 6.00pm	Mechanical Branch	<b>Will outline the advantages of Cogeneration, also known as CHP</b> (the combined production of heat and power)	Bob Norris, Business Development Manager, Dalkia Energy Services
<b>Tue 8</b> 5.30 for 6.00pm	ASDE	<b>The Capability and Technology Demonstrator Program – Supporting Australian Defence Technology</b>	Andrew Arnold, Director CTD
<b>Tue 15</b> 5.30 for 6.00pm	ITE&E	<b>Wireless Vehicular Communications</b>	Chris Skinner, Principal, DISplay Pty Ltd
<b>Wed 16</b> 5.30 for 6.00pm	Asset Management Council	<b>Annual General Meeting</b>	
<b>Thu 17</b> 12.00 for 12.30pm	Transport Branch	<b>Public Transport and Park &amp; Ride Facilities in the ACT</b>	Kuga Kugathas, ACT Government
<b>Thu 24</b> 5.30 for 6.00pm	SSEE	<b>Description of the Proposed Electrical Vehicle Network in the ACT</b>	Geoff Zippel, Head of Deployment, Better Place
<b>Mon 28</b> 5.30 for 6.00pm	Civil/Structural Branch	<b>Delivery of a dam, value through innovation</b>	Chris Dann, Eminent Speaker, Sir John Holland Civil Engineer of the Year 2009
<b>Tue 29</b> 5.30 for 6.00pm	Technologists/Associates	<b>Presentation on Articulation for Technologists &amp; Associates</b>	Eric Hobson, Manager, Articulation Education & Assessment Engineering Australia
<b>JULY 2010</b>			
<b>Wed 7</b> 5.30 for 6.00pm	Risk Engineering Society	<b>Technical Risk Assessment</b>	Dr David Wood, Director General, Project Support, Defence Science and Technology Organisation
<b>Tue 13</b> 5.30 for 6.00pm	ADSE	<b>Performance Based Contracting (PBC) and the Implication on Engineers</b>	Dr Andrew Jacopino, Performance Based Contracting Business Manager, QinetiQ Novare
<b>Thu 15</b> 12.00 for 12.30pm	Transport Branch	<b>The Canberra Hospital Carpark</b>	Michael Goiser, ACT Health Paul Ferrari, R.D. Gossip
<b>Tue 20</b> 5.30 for 6.00pm	ITEE	<b>Gas-Fired Power Station</b>	Allan Evans, Principal I & C Engineer for the Major Development Projects Group of Origin Energy
<b>Wed 21</b> 5.30 for 6.00pm	Mechanical Branch	<b>Changes to the Building Code of Australia (BCA) 2010</b> <i>Increase the energy efficiency stringency for the BCA 2010 to:</i> <i>(i) a 6 star house energy rating for residential properties and</i> <i>(ii) A 2:1 benefit-to-cost ratio for commercial buildings classes 2 to 9</i>	Graeme Field, Department of Climate Change and Energy Efficiency
<b>Thu 22</b> 5.30 for 6.00pm	Civil/Structural Branch	<b>Project Certification 3 – Litigation &amp; the Engineer</b>	
<b>AUGUST 2010</b>			
<b>Mon 2 – Sun 8</b>		<b>Australian Engineering Week</b>	Further details on website: <a href="http://www.makeitso.org.au">www.makeitso.org.au</a>
<b>Wed 11</b> 5.30 for 6.00pm	Mechanical Branch	<b>Functional Nano Ceremics</b>	Adrian Lowe, Senior Lecturer, Department of Engineering, ANU
<b>Tue 17</b> 5.30 for 6.00pm	ITEE	<b>Smart Grid Technology</b>	Mark Amos, Director, Energy Infrastructure Policy from Energy Networks
<b>Thu 19</b> 12.00 for 12.30pm	Transport Branch	<b>REDEX Trial</b>	Speaker from Action Buses
<b>Tue 24</b> 5.30 – 6.00pm	Civil/Structural Branch	<b>Civil Infrastructure due to Natural Events</b>	Mr Mat Kimberley, AusAID

*Disclaimer: Those without email addresses should contact Colleen Mays (02) 6270 6519 to check if a Technical Presentation has not been cancelled.*

## Call for nominations

### Canberra's Engineering Hall of Fame

The Canberra Engineering Hall of Fame was established in 2002 to mark the 75th Anniversary of Canberra Division.

The intent of the Hall of Fame is to recognise the accomplishments of engineers in Canberra who have demonstrated outstanding professional achievement and have made a significant contribution to the local community. It also provides a perpetual means of demonstrating to the community of Canberra the contribution that engineering makes to the success of our city.

Details of the Hall of Fame members and their achievements are featured in a permanent display in Engineering House. Nominations for induction into the Hall of Fame are normally called every two years.

Nominations for 2010 are to be submitted to the Canberra Division Office by 30 June 2010.

Nominees must be members of the engineering team but need not be members of Engineers Australia.

Nominations should include a CV of up to two pages and a two page 'Business Case' addressing the selection criteria. Nominations are reviewed by a judging panel of eminent engineers and Canberrans.

Full Selection Criteria is at [www.engineersaustralia.org.au/Canberra](http://www.engineersaustralia.org.au/Canberra)

## Nominations invited for awards

### John Monash Medal For Engineering Heritage

This award is open to members and non-members of Engineers Australia. Nominations close on Thursday 31 August 2010.

### National Committee on Transport Engineering Transport Medal

The NCTE's Transport Medal seeks to reward and recognise outstanding individual contributions to transport in Australia. Nominations close on Friday 29 July 2010.

Additional information and selection criteria for these Awards can be obtained by emailing [engpracawards@engineersaustralia.org.au](mailto:engpracawards@engineersaustralia.org.au)

## RSPCA Hands on Deck Day

The Young Engineers Canberra Division rolled up their sleeves on Saturday 22nd May and provided hands on construction assistance to the RSPCA (ACT).

A total of 12 Young Engineers consisting of Engineering Students and Young Professional Engineers volunteered their time over the weekend to assist the RSPCA in constructing a 65m<sup>2</sup> fence enclosure and a shed.

Major engineering construction works include:

- Construction of aluminium shed with sliding door entrance/exit;
- Minor earthworks to provide a level ground for the shed to be mounted on;
- Perimeter fencing structure for the enclosure.

Minor engineering construction work include:

- Canvas screening along dog walking track.

This enclosure would essentially be used to house various animals including wildlife birds, poultry and little joeys. These are some of the many animals the RSPCA receive on a weekly basis from the public. With the enclosure and shed being completed,

the RSPCA now has proper facilities to store these animals within a safe compound.

Well done to the YE volunteers for a big contribution back to the local Canberra community.



## Young Professional Engineer of the Year Award

The winner of the Canberra Division Young Professional Engineer of the Year Award for 2010 is **Mr Simon Osenieks**.

Simon completed his Bachelor of Engineering (Honours) – Sustainable Energy Systems, Electronic Systems degree, at the Australian National University in 2007, and currently works for AECOM in their Buildings Group.

In their citation the judges made particular mention of the community work Simon has done through his involvement with Engineers Without Borders (EWB).

EWB is an organisation dedicated to assisting people in poorer countries to improve their standard of living. EWB focuses on developing the capacity of local technical communities through small scale, grassroots engineering programs to ensure that innovative, appropriate, and sustainable development projects are locally generated and driven. Typical projects include access to drinking water, sanitation, energy, basic infrastructure, waste systems, Information Communication Technology, and engineering education.

Simon has recently stepped down from the position of President of the ACT Chapter of EWB. At the time he



*Simon Osenieks receiving his award from Canberra Division President Denton Bocking.*

was President of EWB ACT, he was also the project manager for a water supply project in East Timor. This project involved supply of water and sanitation to 2000 students. His work covered:

- Managing volunteers, overseas contractors, and donor representatives;
- Developing a memorandum of understanding in both English and the local language; and

- Creating contract documents for the local contractors.
- Simon successfully overcame language and distance barriers that I am sure many of us have not had to face, and demonstrates his proficiency in communication skills. His work on this project clearly shows his dedication and achievement in community affairs, and how professional engineering skills can be used to benefit society.

**engteam.com.au**

### The Engineers Australia recruitment service

Engineers Australia can now offer members and non members of the engineering profession a recruitment service.

**Engteam.com.au** is a hybrid online recruiting system, catering for engineers, technologists, associates, graduates and students – the whole engineering profession!

The system will match you online with available vacancies posted by employers, and our consultants will provide information, answer your questions and assist in getting the very best solution for you.

Since our official launch two weeks ago, **engteam.com.au** has had over 6000 visitors to its website. In addition we have had registrations from 1500 job seekers and 50 new client registrations.

This strong response is very encouraging and trending in line with our expectations.

Why not have a look at our website, **www.engteam.com.au** ?

You can also phone us **+61 (0)3 9008 8080** and

Engineers Australia members can call on **1300 193 868**.



## 2010 DMO Generation and Gender Exchange Luncheon (Gen<sup>2</sup>X)



On Friday May 21, Young Engineers Canberra and Women in Engineering Canberra hosted the fourth

annual 2010 DMO Generation and Gender Exchange Luncheon (Gen<sup>2</sup>X) with the topic 'Leadership in the Engineering Profession'. This year's topic proved highly successful with 100 attendees representing over 20 engineering organisations and all

generations and diversity groups of the Engineers Australia membership.

The aim of the generational exchange luncheon is to bring all generations and diversity groups of the engineering profession together to discuss issues of engineering importance. It also provides a valuable opportunity to breakdown the barrier that age and position can create in the workplace bringing students, young engineers, senior engineers and fellows together in a social environment. In 2010 this aim has again been met in incredible fashion with many generational debates being held throughout the luncheon.



*Brendan Bilston, Denton Bocking and Simon Osenieks.*

Attendees were guided through their discussions by MC Andrew McKinnon, a graduate engineer from the DMO who provided fresh enthusiasm to the discussion. Group Captain Graham Edwards (Royal Australian Air Force) and Brendan Bilston (Point Project Management) presented to the audience on their perspectives on leadership and the skills that they felt good leaders displayed.

Young Engineers Canberra and Women in Engineering Canberra would like to thank all DMO for

their continued sponsorship of the Gen<sup>2</sup>X. We would also like to thank all those who attended the luncheon and hope to see you all again next year.



*(left) Bulk Water Alliance*



*100 attendees representing over 20 engineering organisations attended the luncheon*

