

Engineering Tasmania

September 2011



ENGINEERS AUSTRALIA
Tasmania Division

Newsletter of Engineers Australia, Tas Division - Royal Engineers Building, 2 Davey Street Hobart
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PRESIDENT'S REPORT



It has been a busy month with Australian Engineering Week, the release of Engineers Australia's National Reconciliation Action Plan (RAP), and earlier, the launch of our Parliamentary Support Program. I would first of all like to thank all of those involved in running the events over Australian Engineering Week. We had a very good program of activities across the state for both the public and the profession, and based on

the level of attendance, it was a great success.

The prelude to the week was the Gala dinner at Wrest Point to announce the Engineering Excellence Awards and our Individual Awards. It proved to be a very enjoyable night with Robyn Moore as Master of Ceremonies and over 200 people in attendance. You can see some of the photos taken on the night on pages 3 and 4. All our winners are featured <http://www.engineersaustralia.org.au/tasawards> and I wish them all the best for the National Awards which will be announced in Canberra on 23 November. I would also like to thank our sponsors Transend, Acutel Consulting, GHD, Midson Traffic and SKM for making the event possible.

As part of Engineers Australia's national Reconciliation Action Plan (RAP) committee I was honoured to attend the launch of our national RAP for 2011-2015, in Sydney, on 9 August. Through our Strategic Plan and Code of Ethics, we have emphasised our commitment to "use our members' knowledge and skills for the benefit of the community to create engineering solutions for a sustainable future."

The RAP details steps and priorities that we will undertake at both a national and divisional level to assist in achieving Indigenous equality and to help build positive relationships between Indigenous and non-

Indigenous people. The key themes of the RAP are relationships, respect and opportunities.



The RAP Launch in Sydney

I encourage you to view the RAP and read our Statement of Commitment to Indigenous Australians at <http://www.engineersaustralia.org.au/rap/>

We have had a very good response to the invitation to participate in our Parliamentary Support Program (PSP) which was launched at the end of July.



The PSP Breakfast Launch attendees

The thirteen parliamentarians who are now part of the program are:

We thank our
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President's Report cont

Senator the Hon Eric Abetz,
Ms Elise Archer MP,
Senator the Hon David Bushby,
The Hon Craig Farrell MLC,
Mr Michael Ferguson MP,
The Hon Ruth Forrest MLC,
The Hon Michael Gaffney MLC,
The Hon Vanessa Goodwin MLC,
Senator the Hon Stephen Parry,
Ms Jacqueline Petrusma MP,
The Hon Sue Smith MLC,
Ms Rebecca White MP, and
Mr Peter Gutwein MP.

By participating in the PSP these parliamentarians have demonstrated a willingness to engage with our profession, and a genuine interest in gaining a deeper understanding of engineering issues, as they relate to their portfolios and constituencies, and in particular as they pertain to critical infrastructure. I recognise and applaud them for that. Each of these parliamentarians has been allocated two senior engineers from within the Division to act as points of contact with the engineering profession.

We were particularly honoured to have Senator the Honourable Eric Abetz, The Hon Craig Farrell MLC, The Hon Vanessa Goodwin MLC and Ms Jacqueline Petrusma attend our PSP launch event. They showed a genuine interest in the issues of concern to our profession and actively engaged with their nominated engineers and our members in general. If we can generate this level of interest and engagement from all of our PSP participants then the program will be a great success and hopefully of real value to all involved.



Craig Maxwell Farrell has been a

member of the Tasmanian Legislative Council representing the seat of Derwent for the Australian Labor Party since 2011.

Craig was elected to the Legislative Council in a by-election on 7 May 2011 following the resignation of Michael Aird in 2010. He also serves as a councillor and Deputy Mayor of the Derwent Valley Council, and was an electoral officer in the New Norfolk office of Federal MP Dick Adams. He is President of the Derwent Valley Railway Preservation Society.

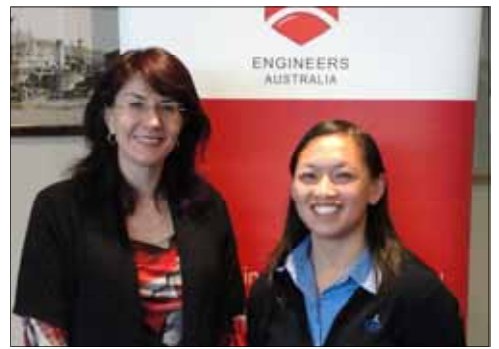
In the 1980s, Farrell hosted *The Cartoon Company*, a Saturday morning cartoon on TasTV, with a costumed character called "Boss Poss". From the 1990s he was variously a television sales executive and real estate representative.



Vanessa Goodwin has been a member of the Tasmanian Legislative Council representing the seat of Pembroke Derwent for the Liberal Party since August 2009.

Vanessa is a criminologist and lawyer who has worked for the Department of Police and Public Safety. She has previously worked as an Associate to the Chief Justice of the Supreme Court of Tasmania, as the Public Affairs Officer for the local Australian Hotels Association branch and as a research assistant for the Tasmanian Governor.

She has a PhD in Law from the University of Tasmania, a Master of Philosophy (Criminology) from the University of Cambridge, and a Bachelor of Arts and Bachelor of Laws from the University of Tasmania.



Jacquie Petrusma has been a member of the Tasmanian House of Assembly representing the seat of Franklin for the Liberal Party since April 2010.

Jacquie was born in Launceston, and worked as a registered nurse before becoming involved in politics.

She has four children and holds a Bachelor of Commerce (Marketing).



Eric Abetz has been a member of the Australian Senate representing the State of Tasmania for the Liberal Party since February 1994.

Eric was educated at the University of Tasmania earning degrees in Law and arts in 1981 and was a barrister and solicitor before entering politics. He was Tasmanian State President of the Liberal Party 1990-1994. He is currently Leader of the Opposition in the Senate

Abetz was Parliamentary Secretary to the Minister for Defence 1998-2001 and was Special Minister of State from January 2001 until 2006. He was Minister for Forestry from a reshuffle of the Howard ministry in January 2006 until its defeat at the 2007 election .

He is currently the Shadow Minister for Employment and Workplace Relations and Leader of the Opposition in the Senate

Greg Walters, FIEAust CPEng EngExec



VALE
David Sugden, HonFIEAust CPEng AO
(31 January 1920 – 18 July 2011)

Born on 31 January 1920 in York, Western Australia David began his career in 1938 as a Cadet Engineer with the Public Works Dept of WA. He moved to Tasmania to work on the massive Hydro system, soon overseeing plant and 700 operators.

He continued with a number of appointments within the Hydro-Electric Commission of Tasmania and whilst there he was instrumental in introducing the Commission and subsequently Australia to Machine tunneling. In 1967 David began a long and internationally recognised consultancy career. Notably he had significant involvement with both the Robbins Company of Seattle, USA and Terratec Asia Pacific, Australia.

David was a driving force behind the successful design of mechanical full-face rock excavation machinery over a number of years, resulting in the forging of countless tunnels all across the world. He continually showed a commitment to innovation and design throughout his career, often custom making machinery to solve problems that arose and for which no existing devices were available or appropriate. As a result of this attitude, David was listed as the inventor of over 40 patents.

To quote Tony Peach, former Director, Terratec Asia Pacific and National Chairman, Australasian Tunnelling Society “His commitment to business associates is best described by the following anecdote. As Plant Engineer for the HEC he was instrumental in ordering a piece of machinery from a small USA company that was at the forefront of the technology. Literally the month the order was placed, the founder of the company was killed in a plane crash. David went to USA and supervised the small remaining team of engineers to enable the son and heir of the company’s founder to complete college. The machine was delivered to the HEC in Tasmania, and went on to complete several production records. Subsequently David resigned from the HEC and was hired by the USA company as a special consultant and held that position until 1998 when the USA company was sold.

A major event that effected the general public in the city of Melbourne, but was basically unreported, relates to the machine that was excavating the Melbourne Underground Rail Loop (MURL) during the mid 1970’s. The machine failed for a multiplicity of reasons. David conceived of a solution to counteract the majority of the problems and the machine, after the installation of new and modified components, eventually went on to complete the excavation

process successfully, thereby saving the contractor and the Victorian taxpayers significant costs. I doubt that any of the thousands of commuters that ride on MURL every day know anything of the saga!”

David also worked in hydraulic transmissions and with the help his partner, Ken Dixon designed a new kind of hydraulic motor suitable for the construction industry. These hydraulic motors with their transmissions gained a Certificate of Merit of the Prince Phillip Prize for Australian design in 1973.

Some of the other Honours and Awards he received included: 1985 – Award of Merit, Institution of Engineers, Tasmania Division for significant contributions to the design of hard rock tunnel boring machines which have enabled the successful execution of many tunneling projects both in Australia and overseas; 1996 – Allen Neyland Award, The Australian Underground Construction and Tunnelling Association (AUCTA) this was the inaugural Award; 2001 – Presented the Sir Victor Burley Lecture, “Tunnel Borers, Violins and Other Adventures”; 2002 – An Officer of the Order of Australia (AO); 2003 – AGM Michell Award for Mechanical College for his contribution to Australian Mechanical Engineering; 2006 – Honorary Fellow, Engineers Australia.

In 2006 David completed compiling a book of mathematical models on the Performance Predictions of the Hard Rock Full Faced Tunnelling Boring Machines.

David’s most unusual project was the development of a new kind of violin. The object of the exercise was to convert the low-cost student instrument available for teaching to an instrument on which it would be possible to teach the student the full range of techniques necessary.

David changed the design of the violin radically so that it could be made using modern high production machinery with precision interchangeable components enabling teaching institutions to maintain their instruments at low cost. His new violin is essentially made of plywood or its modern equivalent with flat back and belly and without the baroque decorations of the traditional instruments.

David leaves behind his five sons, Robert, Michael, Chris, Nigel and John and his wife Margaret who has been his support now for many years.

Geoff Harper
Division Director

2011 ENGINEERING EXCELLENCE AWARDS GALA DINNER - 29 JULY



2011 ENGINEERING EXCELLENCE AWARDS GALA DINNER - 29 JULY



CONGRATULATIONS/ WELCOME

Members joining, rejoining
or upgrading

FELLOWS

Philip Cantillon, FIEAust
Barry Cash, FIEAust CPEng
Phil Gee, FIEAust CPEng

MEMBERS

Amila Gunadasa, MIEAust
Induruwe Hemanthi, OMIEAust
Dusan Nikolic, MIEAust
Robert Reid OMIEAust

GRADUATES

Lingxiao Situ, GradIEAust

STUDENTS

(StudIEAust)

Sam Calvert
Xiang Choo
Richard DePaoli
Anish Dherai
Jose do Campo
Stuart Ednje
Alison Farquhar
Corey Gould
Nathan Morey
Thomas Novaes
James Osler
Benjamin Price
Yoshitaka Sagawa
David Skinner
Thomas Stares
Denis Wall
Scott Whitmore

UPGRADING MEMBERS



BARRY CASH,
FIEAust CPEng

Barry Cash graduated from the Tasmanian College of Advanced Education in 1977 with a Bachelor of Engineering (Civil). Since then he has completed a Post Graduate Diploma in Management from Deakin University and a Company Directors Diploma from the *Australian Institute of Company Directors*.

His career began on the West Coast of Tasmania as a construction engineer with the Hydro Electric Commission where he gained experience and understanding of large scale construction.

From there Barry made the move to the Rivers and Water Supply Commission (RWSC) where he spent 17 years, finishing as an Engineer Manager. As a young engineer Barry worked in municipal water and sewerage design assessment work, river improvement scheme design, construction and management, internal water supply design and contract management and irrigation and farm dam advice.

In the first of many restructures which have played significant parts in his career, Barry was promoted to Senior Engineer (Municipal and Drainage) and transferred to Hobart with the RWSC. Again the role centred on aspects of water and sewerage schemes along with the development and management of its river improvement and drainage schemes. It was here Barry's move

into management began as he oversaw the Commission's three urban water businesses, one rural water business, and seven river improvement and drainage businesses.

His growing expertise in the field of water and wastewater field enabled him to represent Tasmania at a national level on the Water Technology Committee (WTC) of the Australian Water Resources Council. His time on the committee included the period when, in conjunction with the National Health and Medical Research Council, it developed and published an early version of the Australian Drinking Water Guidelines.

In the mid 1990's reform was again on the agenda and Barry returned to Launceston to establish and manage a stand-alone business unit to operate the RWSC's three urban water businesses. Ultimately it would result in the creation of Esk Water Authority, which in 1997 took over operation of the bulk water assets in the Tamar Valley. Initially as the authority's General Manager and later as its CEO, Barry created an organisation consistently recognised as being very successful

When the Tasmanian Government reformed the state's water and sewerage industry Barry was appointed as the CEO of Ben Lomond Water, one of three regional corporations which took over the provision of water and sewerage services in each of the regions. A significant challenge has and continues to be to build a company capable of achieving regulatory compliance at the same time as becoming economically sustainable. This has included the development of a range of planning and compliance documents and to develop the financial and technical capacity deliver an extensive capital expenditure program.





**PHIL GEE,
FIEAust CPEng**

Phil graduated from the University of Tasmania in 1981 with a Be and from Curtin University with MBA. He has also completed post graduate studies in management and transport planning & traffic engineering. He was awarded the IEAust Tasmania Division, Fred Brough Memorial Prize in 1985 for his paper on the design and construction of the Launceston Civic Square.

Phil's first job as a graduate was with Steel Mains Pty Ltd providing supervision and quality control on the fabrication of two coal fired boilers for the Cascade Brewery. He considers helping ensure the sustainable flow of quality beer from Australia's oldest and most iconic brewery as one of his greatest contributions to society.

Phil worked in various roles in local government for 12 years and as Senior Engineer for the Hobart Regional Water Board for seven years. Early in his career he was involved in a range of road and traffic design, hydraulic design, structural design, flood protection systems and network analysis of hydraulic and traffic systems. He subsequently undertook a number of senior management roles with responsibilities for infrastructure planning, asset and maintenance management, budgeting, project implementation, program management, policy development, construction management, business development and marketing. During this time Phil served on the Urban Water Research Association's Research Advisory Committee for seven years.

Since 1999 Phil has worked with consulting firm **pitt&sherry**, initially

as a Senior Project Manager then Business Development Manager - Tasmania he now has the role of National Marketing Manager. As a consultant, he has been responsible for a wide range of projects and developed an expertise in strategic infrastructure asset management. Phil worked on the Auditor General's working group for road valuation and was the ACEA's representative on the IPWEA Tasmania Division Asset Management Reference Group. More recently Phil managed the due diligence study into the performance of Tasmania's water industry in respect to its infrastructure management and its regulatory compliance with respect to the environment and health.

Phil has been involved with the Institute of Public Works Engineers since 1994 having served as State President and National Board member and is currently on the Board of the Foundation for the Advancement of Municipal Engineering, Tasmania.

A keen surfer and founder of the Old Farts Surf Co., Phil is married to Christine, a teacher, and they have a son, Cameron who is completing a Masters in Exercise physiology at UQ.



**INDURUWE HEMANTHI,
OMIEAust**

Hemanthi completed her National Diploma in Engineering Science (NDES) in Technicians Training Institute Sri Lanka in 1996. She joined Sri Lanka Telecom Limited (SLT) as a civil engineering draftsman in August 1996. Sri Lanka Telecom Limited is the

government owned telecommunication utility in Sri Lanka. During her 14 years stay in SLT, she was attached to the network planning division and had been involved in many different types of engineering projects and construction works. The network planning division of SLT is responsible for carrying out of the planning new systems/networks as well as necessary modifications to the existing assets (i.e – buildings, overhead and underground cable network and tall steel lattice towers). Hemanthi's work scope mainly involved activities such as site inspection visits and collecting details/measurements, preparation of new drawings/plans for proposed construction or updating of existing drawings/plans for proposed modifications of existing buildings, preparation of layout drawings of overhead and underground telecommunication cable networks and assembly drawings of tall steel lattice antenna towers. All drawings/details were prepared in an AutoCAD work environment in either 2D or 3D drawings as appropriate.

She has worked as a freelance draftsman (on a part time basis) for engineering consultancy companies and has been involved in different engineering construction projects such as hydro power schemes, high voltage transmission lines and grid substations and residential/non-residential buildings. Hemanthi has achieved great work experience on both structural as well as architectural drawing works from the above jobs.

In last August 2010, Hemanthi came to Australia with her family and currently worked as a civil draftsman person in Enerfab Engineering Services Pty Limited, Melbourne. Hemanthi is married to Rohana, an engineer at Entura (Hydro Tasmania) and they have one child, an 11 year old daughter who is studying at Montagu Bay primary school.



Dr Peter Greenwood HonFIEAust CPEng EngExec

“Reflections from 20 Years of Rewarding Volunteer Service”

During a conversation with Geoff Harper about how long I have been involved with Engineers Australia, it turned out to be 20 years this September. Geoff asked me to write an article about how I came to be in Tasmania and my involvement locally, nationally and internationally.

My engineering journey started with the Central Electricity Generating Board in England which educated and trained me in the 1960s, as a transmission engineer and later as an engineering scientist in the industry's research labs. They encouraged membership of the Institute of Electrical Engineers (IEE) and supported me as Chair of the local Graduate and Student section in Yorkshire.

Colleagues at the labs encouraged attendance to IEE lectures in London, which was a lively scene with all the engineering and research in and around the city. Memories of these days were brought back to me, when many years later, I paid several visits to Arup's London offices to give presentations to Engineers Australia's UK Chapter.

After some years of lab research and field-testing in the U.K. my interests gradually changed to management and education. An opportunity arose to go to Papua New Guinea, so after much family debate, we went to help build the Electrical Engineering Department at the University of Technology (UNITECH) in Lae. It was a campus university housing about 1,000 students and 1,000 families, on a big old coconut plantation.

When I arrived there were three students in the second year of their degree with the labs still to be equipped.

The first electrical power graduate, who was also a very good Aussie Rules

player, later went on to successfully manage the Electricity Commission.

When I left, it was bigger than engineering at UTAS and, at the time, better equipped with a reasonable research effort. Working in the tropics was very different from the lab in Surrey.

Engineers Australia had a branch in PNG but tactfully withdrew with PNG's independence, in 1975. But the foundation left behind helped the formation of the Institution of Engineers PNG. There were some members of IET and IREE. Our students could join the IEEE, so I did too. Engineers Australia continues to help IEPNG and has a current interest in several Pacific island nations.

UNITECH was isolated but well connected. We received on-going help from Engineers Australia and we had many engineering contacts around the world in universities and industry. We had links with Reading and Edinburgh in the UK, the Indian Institute of Technology in Delhi, University of the Philippines, QUT, UTAS, and Melbourne. Professor Jack Woodward who hired me and went to Auckland and Professor Hugo Messerle, from Sydney Uni who was a strong supporter of UNITECH were my mentors.

The UNITECH and its Maths Learning Centre also had considerable help from the Higher Education Research unit at Monash. We also played a technical and educational role in PEACESAT, a satellite education project for Pacific Islands and rim countries.

I ended up as Head of Electrical and Communication Engineering and Dean of Engineering. On sabbatical in Scotland, I did a Masters Degree in management science, which led to my involvement nationally in government planning for education and training. Looking for another career change and a settled life for our teenage kids, I searched for a job in academia or back in industry.

The Hydro-Electric Commission in Tasmania hired me in 1983 as Electrical Investigations Engineer, giving me further training in senior management, governance and life under the Corporations Law. I became Assistant Chief Electrical Engineer (Development) and then Executive Manager Business and Corporate Planning.

Just before I joined Engineers Australia in 1991 the HEC was preparing for commercialisation and possibly privatisation. Like many others, in an outcome difficult to understand, I worked myself out of a job. I didn't seem to fit into the future plans of the Board at the time. So I became a consultant in strategic planning and project evaluation.

A “mate” asked me if I was interested in joining Engineers Australia and being on the Committee, which “only met once a month and didn't have a lot to do”. Sound familiar? I fell for it, though I wasn't exactly naive having been very active in learned societies since my student days. I was the founding Chair of the Tasmania Centre of the IEE (later the IET) not long after I came to Tasmania in 1983 and on its IEE Australasian Regional Board when I joined Engineers Australia, so I had some preparation for what happened.

In 1991, Engineers Australia CEO Bill Rourke sent a very nice letter welcoming me to the Institution saying that Council had appointed me as a Fellow. I also learned that the Division actually wanted me to join the succession plan for future Division Presidents.

I started my rapid learning about Engineers Australia by rotating around a few sub-committees and getting involved in a number of exciting projects. We wanted to stimulate Young Engineers and Women in Engineering, encourage interest in engineering in high schools and I had to learn about the office full of powerful staff and grey haired office bearers in Canberra.

Dr Peter Greenwood HonFIEAust CPEng EngExec

“Reflections from 20 Years of Rewarding Volunteer Service”

Fate played a trick on me twice which resulted in me being both Tasmania Division President for two years in 1995 and 1996 and then National President in 2002 and 2003.

In Tasmania in 1994 Tim Burbury was President designate before me when he became State Manager of GHD which delayed his Presidency so I was asked to do it a year early. Tim's business commitments were still heavy a year later so I did a second term.

Tim intervened a second time in my Engineers Australia career. During his Presidency, Engineers Australia approved a new Constitution and Council structure. There was to be an inaugural meeting and election of office bearers. The referendum had been divisive and implementation was going to be difficult. Tim asked me to attend for the Division because of my previous Council experience, to help support the changes. That was in 1998 and I was in my last year in the Division system.

I went, was persuaded to stand for Council and joined an experienced refreshing team of new Councilors. They were an unforgettable group to work with, very effectively setting Engineers Australia on its new path with a carefully crafted strategic plan. I later followed several impressive people from that group, as National President.

When the jobs were handed out in 1998 I wanted and got National Vice President Communications, which later became Communications and Policy. Council appointing me as its representative on the Board of EMedia, Engineers Australia's subsidiary company that publishes the Engineers Australia magazine and the Transactions. Later, in 2004 Council appointed me to chair the Board.

In 2002 after two years as National Deputy President responsible for the International Committee and two strategic plans, Congress appointed me National President.

The two main jobs of the National President were to Chair Council which

had the roles and responsibilities of a Company Board including Strategy, Solvency and senior staff and Chairing Congress, the representative body of Engineers Australia.

The second job is to lead Engineers Australia and the profession in various forums and undertake visits nationally and internationally. Council nominated me to the Chair of the Washington Accord (an International agreement accrediting engineering degrees) in 2002 in a period of change when we created a Secretariat, then nominations by Hong Kong Institution of Engineers followed by IPENZ.

In Darwin in late 2002 on an Engineers Australia visit (two weeks before I was to hand over to National Deputy President Dr John Wager, an eminent Mechanical Engineer from Perth), I had a phone call. John had been taken ill and his doctors had advised him not to take on the Presidency. This was tragic because John and I had worked closely together so I knew how much he wanted the job and what he was hoping to do.

My wife was understanding and supportive (and long-suffering). Congress voted for me to do a second term and the Immediate Past President, Dr Martin Cole also agreed to continue.

It was one of the many privileges as an Engineers Australia office bearer, to pay visits over a number of years to our Chapters in Singapore, Kuala Lumpur, Hong Kong and an emerging group in China. What lively and passionate members with loyalty to Engineers Australia through their university education, as well as to their National Institutions. It was a revelation to many in Engineers Australia to find out we had thousands of members overseas who were not Australian expatriate workers but Australian graduates resident in their own countries.

Among the memorable things were:

- Awarding the President's Prize to all YEA Office Bearers in 2002 and

an outstanding Engineering Officer, Rob Williamson the year after,

- Being part of Barry Grear's election team for the World Federation of Engineering Organisations (WFEO) Presidency,
- Speaking to, I'm told, an audience of 5,000 Young Engineers from around the world at World Engineering Congress 2008 in Brasilia,
- The amazing people and sights you meet and see on Presidential visits,
- Holding the Chair of the Washington Accord during a very important formative period,
- Chairing EMedia particularly during the GFC, leaving with a lot of regret but with an excellent successor.



Peter meeting Australia's Dr Andy Thomas, AO HonFIEAust CPEng who is an aerospace engineer and NASA astronaut

20 years have gone by and I'm still working for Engineers Australia. Last year, I left EMedia after 12 years, 6 as Chair. I'm presently Engineers Australia's representative to WFEO and an Executive Council member. I follow my interest in communications and governance but also the energy and education committees.

In 2 year's time most things will come to an end. It will be very difficult to give up the friends and colleagues I have worked with over the years, but I'll still be a retired member of the Tasmania Division.

A lot of people helped me along the way and I thank them all.

EDUCATION & INDUSTRY MANAGER

dpointing@engineersaustralia.org.au
Tel: 6234 2228



*David Pointing,
MIEAust*

Education portfolio

August turned out to be a very busy month for the Education portfolio thanks to the many interesting events across Tasmania for our extended “Engineering Week”.

I had the privilege of attending the Excellence Awards Dinner as the start of my Week, a great opportunity to meet Members and to join in acknowledging the diversity and high quality of engineering work undertaken over the last two years. It is encouraging to see that several of the award winning companies and organisations are participating in our work place mentoring program for Year 10 students (the Engineering Initiative), confirming that we are providing inspiring examples of engineering activities to these potential engineers of the future. Similarly I note that two of the three winners of the individual awards (Michael Sylvester and Ron Bessell) are also acting as mentors in the Program, and that Jane Sargison has made her own significant contributions to the recruitment and education of future engineers.

Later in the Week I attended a “Taster Day in Engineering” in Launceston, organised by the Education Department for students that are interested in engineering careers but who were not selected for the Engineering Initiative. In addition to visits to educational institutions, the students received from Rod Neville an informative and inspiring tour of engineering works within the city, including the flood levy systems.

Mother Nature gave a timely reminder to the students later in the month about the importance of such engineering activities in protecting

parts of Launceston. Rod’s tour has inspired me to create a more formal tour product for each of the 4 regional centres that highlights local engineering activities and concepts and is suited for delivery by volunteer speakers to school groups. This will be integrated into the substantial revisions planned for the Engineering Initiative, and I will seek expressions of interest and contributions from you all later in the year.

I turned my journey to Launceston into a roadtrip across the north (all the way to Port Latta) to visit mentors from the Engineering Initiative and to seek their feedback on the program. I greatly enjoyed my first ever visit to Burnie and enjoyed meeting Members at the Engineering Week networking evening on the Friday night, complementing a similar YEA event earlier in the week in Hobart.

With all 32 students in the Initiative underway with their mentoring, I am now looking at the broader portfolio of educational activities that Engineers Australia members are involved in and exploring how we can most effectively and efficiently contribute. I attended, for example, the Tasmanian finals of the Science and Engineering Challenge in Devonport earlier in the month and was inspired by the enthusiasm and intelligence of the students. Similarly I was impressed with the talents and motivation of students at the Robocup Junior southern region competition on 21 August, and highly encouraged by the success of many girl teams in the competitions.

Take note that the Australian finals of the Robocup Junior competition

will be held in Hobart at the University of Tasmania on 24 & 25 September (see www.robocupjunior.org.au for details, but be there about 2pm if interested!).

I’ve also attended Careers Expos and met with individual teachers and organisations such as the Science Teachers Association, and am currently working on a mind map of the key engineering education related activities and stakeholders within Tasmania.

Industry portfolio

I will soon take on the additional responsibility of Industry Manager for Tasmania, working as part of the National Industry Team. This is the first time that this role will be based in Tasmania rather than serviced out of Victoria.

At the time of printing I am preparing to travel to Canberra for a meeting with the whole Team and to learn the ins and outs of this new job, but basically my role will be to support members in understanding and pursuing Chartered Status (working in collaboration with the National Assessors).

I aim to link up with the visit of the National Assessor (Bob Law) in September.

David Pointing, MIEAust

SCIENCE & ENGINEERING CHALLENGE - STATE FINAL

We thank our Sponsors:



Tuesday, 9 August saw eight schools from all around Tasmania converge on the Devonport Sports Stadium for the State Final of the Science & Engineering Challenge.

The keenness of the 250 students was demonstrated by everyone ready to start 30 minutes before schedule and the University of Newcastle organisers commenting that they had never started a Challenge day so early !!!

The day saw the students competing in eight activities being: Bio-Bot, Confounding Communications, Who gets the Water, Future Power, Flight of the Navigator, Puff Puff Golf, Eco-Habitech and Gold Fever.

After a long, highly competitive and enjoyable day Launceston Christian School were announced the winners by just 10 points over Calvin Christian School (Black) and they will now both represent Tasmania at the National Grand Challenge in Wangarratta in October.

Many thanks to our major sponsors: the Minister for Education and the University of Tasmania and to all the volunteers from Rotary, Engineers Australia members and industry representatives who made the day possible.

SUPER CHALLENGE RESULTS		
1	Launceston Christian School	1,722.84
2	Calvin Christian School (Black)	1,712.65
3	Huonville High School	1,689.90
4	Riverside High School	1,660.00
5	Queechy High School	1,604.87
6	Mackillop College	1,561.78
7	Calvin Christian School (Red)	1,472.37
8	Devonport High School	1,375.58

The President,

Greg Walters FIEAust CPEng Eng Exec

invites you to attend the



ENGINEERS
AUSTRALIA
Tasmania Division

2011 ALAN BURN MEMORIAL LECTURE

DECHLAN ELLIS, FIEAust CPEng



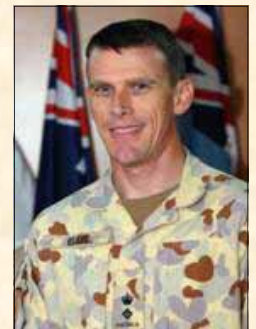
Dechlan is currently Sinclair Knight Merz's manager for buildings and infrastructure in South East Australia responsible for leading 360 staff delivering consulting services to transport infrastructure, Defence and social infrastructure clients. Since joining SKM, Dechlan has held roles including client management responsibility for the Australian Department of Defence and project management of the \$623M HNA Edinburgh Defence Precinct Facilities Project in Adelaide. Dechlan was appointed as a Senior Associate with SKM in 2007 and is past member of the Board's Risk Committee, and a past Chairman of the Australian Society for Defence Engineering, Victoria.

Dechlan joined Sinclair Knight Merz in March 2005 after a distinguished 20 year career in the Australian Army. He retired at the rank of Lieutenant Colonel having held a range of regimental and command appointments in the Royal Australian Engineers, including command of the 21st Construction Squadron and operational service with the United Nations in southern Lebanon and Israel. He also served in Army Headquarters, 3rd Combat Engineer Regiment, 6th Engineer Support Regiment and 12th Chief Engineer Works in Mendi, Papua New Guinea. He has experience as a Project Manager and Project Director within Corporate Services and Infrastructure Group and the Defence Materiel Organisation. He is a graduate of the Australian Defence Force Academy, the Royal Military College, Duntroon and the Australian Command and Staff College.

Dechlan was recalled to active service in September 2009 and completed a 6 month tour of duty on operations in Afghanistan and the Gulf States. He was the inaugural Chief Engineer in Joint Task Force 633 on OPERATION SLIPPER responsible for engineer support to all Australian forces in the Middle East Area of Operations.

“CONTRIBUTION OF MILITARY ENGINEERS TO HUMANITARIAN AND RECOVERY OPERATIONS”

Contrary to traditional notions of 'peace' and 'war' being mutually exclusive, military engineers work across a full spectrum of operations. This spectrum encompasses humanitarian and disaster relief engineering through to armed conflict and the recovery operations that follow as nations transition to peace. Drawing on his experiences as an engineer working in remote Aboriginal communities, in Pacific Island nations and more recently in Afghanistan and the Gulf States, Dechlan will explore the contribution that military engineers make in this Year of Humanitarian Engineering.



HOBART

DATE: Monday, 10 October 2011
TIME: 5.30 for 6.00pm
Finger Food provided
PLACE: Old Woolstore Theatrette
1 Macquarie Street, Hobart
RSVP: Catherine 6234 2228
creading@engineersaustralia.org.au

DEVONPORT

DATE: Tuesday, 11 October 2011
TIME: 5.30 for 6.00pm
2 Course meal - \$15 EA Members
- \$25 Non Members
PLACE: Gateway Inn
16 Fenton Street, Devonport
RSVP: Catherine 6234 2228
creading@engineersaustralia.org.au



**ENGINEERS
AUSTRALIA**
Tasmania Division

NATIONAL ASSESSOR'S VISIT TO TASMANIA

BURNIE – Wednesday, 21 September 2011

UTAS, Burnie Campus, Room TBA
5.30pm

LAUNCESTON – Thursday, 22 September 2011

JMG Offices, 49-51 Elizabeth Street, Launceston
4.30pm

HOBART - Saturday, 24 September 2011

Royal Engineers Building, 2 Davey Street, Hobart
10.30am

COMBINED

**HOW TO GAIN CHARTERED STATUS &
HOW TO WRITE A CAREER EPISODE**



**ENGINEERS
AUSTRALIA**
Tasmania Division



Bob Law, one of Engineers Australia's National Assessors assigned to Tasmania, will be visiting the State in September and conducting three presentations on:

- how to gain Chartered Status
- how to write a career episode (CER);
- provide feedback on draft career episodes that you have written;
- answer any queries in relation to the Professional Development Program;

These presentations aim to convince you that writing CERs are not such a daunting task as you may have first thought !

There will be time at the end of each session for Bob to answer individual questions on a "one to one" basis.

Bob is one of the people who will assess your career episodes and your engineering Practice Report, so please take this opportunity to come and meet him in person and ask any questions that you may have.

Bob's functions as a National Assessor include:

- To assess applications for Chartered status
- To facilitate Professional Interviews for those applicants whose written submissions are satisfactory
- To assist potential candidates with their applications by personal advice and by the convening of workshops
- To liaise with Industry to ensure the structured career development of engineering graduates on the road to Chartered
- To advise and assist engineering graduates in the structuring of their careers

To register, please contact Catherine Reading on 6234 2228 or creading@engineersaustralia.org.au by no later than Friday, 16 September 2011 as light refreshments will be served.



YOUNG ENGINEERS

*Sandra Thaow, MIEAust CPEng
Chair,
Young Engineers Tasmania*

new minds
new ideas.



The first week of August was Australian **Engineering Week** – a week to promote the contribution that the engineering profession makes to society and the important role that engineers play on a global and local scale. I had the good fortune of attending a few of the events held prior to and during Australian Engineering Week by various Engineers Australia groups and was pleased to see the events well attended by members of the profession and public. I would like to thank all the people that assisted in organising these events and congratulate them on a job well done.

August was also the grand final of the **Science and Engineering Challenge, State Final** which was held in Devonport. I would like to congratulate all the schools that participated in State Final and Launceston Christian School and Calvin Christian School (Black) on their success at the event. Both teams will now progress to the National Grand Challenge in Wangarratta in October.

Although this news is now a month old as the winners of **Engineers Australia's Excellence Awards** and **Individual Awards** were announced in last month's Engineering Tasmania, I would like to congratulate all the finalists and nominees on their fantastic submissions.

I would particularly like to acknowledge the winners of the Individual Awards: Dr Jane Sargison, Ron Bessell and YEAT's own Michael Sylvester. All were incredibly worthy winners with some fierce competition for the awards. Congratulations to you all.

Future events: YEAT are currently in the process of organising a **Chartered Professional Engineering (CPEng) Status Forum** on **Wednesday, 2 November** (refer to advertisement in next column) to provide an opportunity for professional engineers currently undertaking their CPEng or

thinking about undertaking their CPEng to come along and listen to an industry panel's thoughts on CPEng. YEAT will also be launching the a CPEng Network initiative to link engineering professional undertaking CPEng together to provide a support and information sharing network.

Also, Bob Law one of EA's National Assessors will be visiting Tasmania during September to present workshops in Burnie, Launceston and Hobart on **"How to gain Chartered Status/How to write a Career Episode"**.

We are fortunate that he has offered to present the Hobart workshop on a Saturday morning so that those with family commitments have an opportunity to attend. **Please refer to page 13 for further details.**

**Sandra Thaow, MIEAust CPEng
YEAT Chair**

Chartered Status

ADVANCE NOTICE

Come to a
**Chartered Engineering Forum
and voice YOUR opinion**

**Wednesday, 2 November 2011
Commencing at 5.15pm**

**"To be or not to be....
A Chartered Engineer"**





REPORT ON CASUAL NETWORKING NIGHT 2 August 2011

The first week of August saw Engineers Australia hosting Australian Engineering Week. YEAT's contribution in South of the State was to host a casual networking event.

Unlike previous "speed" networking events, there was no "when the music stops you must move".



particular order) SKM, Nyrstar, Gandy and Roberts, Aurora, Transend, Engineers Australia, TasGas and UTAS.



Visitors from the mainland also joined in with representation from Defence Force Recruiting. They had spent two days in the State, talking to both UTAS and AMC, and kindly donated the lucky door prize.

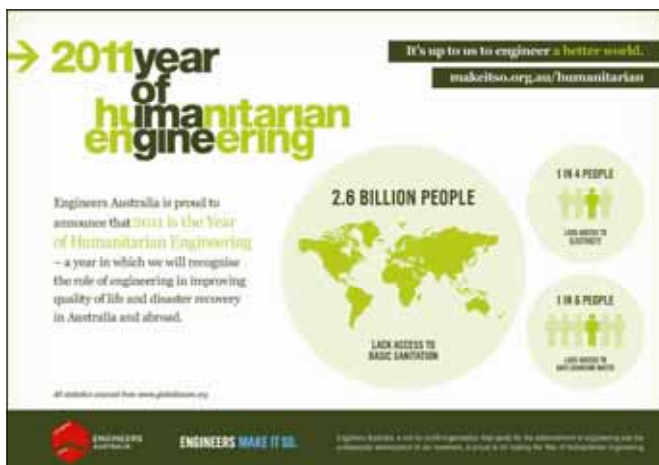
Instead there was the good old fashioned kind of networking: a relaxed conversation with the person who next to you, followed by a conversation with someone else you happened to bump into as you wandered off to find another drink or slice of pizza. The challenge set at the beginning of the evening was to meet at least two people you didn't know. For the fifty-something people who gathered at the Metz on that first Tuesday of August it wasn't an issue.

There were representatives from many businesses around town, including (but not limited to and in no

It was particularly encouraging to see the number of University students who attended the event (approximately 60% of attendees).

They took the opportunity to mingle socially with both Lecturers and qualified professionals, asking about what it was like to be an engineer in the "real world". The night was a great success, with many people still at the venue well after the official closing time of the event.

Your next challenge: attend the next EA event (networking or otherwise) and meet more people from around town.



Volunteers provide invaluable support within Engineers Australia

Voting for vacant **Division Committee**, **College Board** and **National Congress** positions for 2012 will open from Monday 3 October, 2011 – 5:00pm (AEDT) on Friday 28 October, 2011.

For details about the election process visit the website at www.engineersaustralia.org.au/elections

www.engineersaustralia.org.au/elections



Nyssa Muir, GradIEAust

WOMEN IN ENGINEERING

Women in Engineering, Tasmania
Attract. Support. Develop. Celebrate.
Our mission is to increase the participation of women in the engineering profession and allow our members' aspirations to flourish.

Events

Chartered Status Workshops

Bob Law, a National Assessor will be visiting Tasmania from **Wednesday, 21 September to Saturday, 24 September**. If you are interested in gaining Chartered Status, please do not miss out on this opportunity. **Refer to the advertising flyer on page 13 for more information**

Corporate Games

The WIE Tas Committee (in conjunction with CELM) has organised a seminar by Dr Mark Toner and Gunilla Burrowes which will explore the difficulties of working in male-dominated industries. This seminar is kindly sponsored by Aurora.

- Date:** Wednesday, 28 September 2011
- When:** 6pm onwards
- Venue:** The Woolstore Theatre, Hobart.
- Cost:** \$20 for non-members, **FREE** for EA members & Aurora employees.

The seminar shall be followed by drinks & finger-food and an opportunity to network. See advertising flyer on page 18

Nyrstar Technical Site Visit



Project presentation and quick tour/overview of the Casting Process

- Date:** Early October 2011 - Date to be confirmed
- Time:** 11:30am start until 1:30pm including a light lunch and opportunity to network

PPE will be required

More info: Further details to follow

VIC/TAS 2011 NAWIC Awards for Excellence



This awards night promises to be an inspiring and exciting chance to see the amazing projects women have contributed to in 2011.

- Where:** NAWIC Awards Dinner Savoy Ballroom, Grand Hyatt Melbourne.
- When:** Friday, 7 October 2011.
- Time:** 6.30 pm (for 7.00 pm)
- Dress Code:** Lounge Suit / After 5
- Cost:** Members \$150, Non-Members \$170, Students \$120, or a table of 10 \$1,600
- More info:** <http://www.nawic.com.au/>

News

ICWES16

With the success of the ICWES15 conference, the dates of the next ICWES conference has already been set! These Yanks sure don't muck around with their conferences as it will be in LA, California on 20 - 25 October 2014. How's that for forward planning! It will also be combined with SWE14 (The Annual Conference for Women Engineers). These conferences are big business in the USA regularly attracting up to 5000 women! Imagine the lunch queue...

Weekend Australian Newspaper Article

On 13 August, the Weekend Australian published an article titled 'Women Hold Key to Skills Shortage'. We knew this already, however it's nice to see it published in the mainstream media. The reporter interviewed the WIE national president, Michelle Shi-Verdaasdonk who stated that, "it's a three-tiered problem; not enough girls are signing up to do engineering at university in the first place; retention rates are low with many qualified female engineers leaving the workforce after having children; and not enough women are progressing into leadership roles."

With forecasts Australia's resources industry will be short of 26,000 workers by 2013, women could be the answer to tackling the skills shortage. Attraction and development initiatives are required to obtain more WIE, however, these are often far and few between.

Reflection

Tales from the ICWES15 Conference

A couple of months ago (July that is), I was fortunate enough to be able to attend the ICWES (International Conference for Women Engineers & Scientists) in sunny Adelaide. Despite being seen as bit of a 'fluffy girl's conference', my employer graciously allowed me to attend. As well as meeting women engineers from all around the world (Africa, Japan, Kuwait etc) it was a very inspiring & educational conference.



Key note speech by Mrs Janet Holmes à Court, from John Holland Group, Australia

There was a good mixture of innovative technical presentations and gender research presentations. My favourite presentation was from Dame Prof Jocelyn Bell Burnell from Oxford University Astrophysics in the United Kingdom. Apart from her cool accent (she hails from Ireland) she is an amazing astrophysicist who is known for discovering the first pulsars. Her presentation titled 'Reflections of a Female Astronomer' was engaging, humorous and very interesting.

As well as the ICWES conference being held in Adelaide, that weekend after the conference, the Australian WIE National Committee meeting was held. Here, all the national representatives from all the WIE committees around Australia meet to discuss progresses against strategies and programmes to attract, support and develop WIE.

Much was discussed and there are many projects underway, two examples of these are;

- Publication of a national 'Go Girl' brochure to be handed out at schools to encourage girls in high-school to study engineering at Uni.
- Development of PPE that is 'fit for work' as it was found that PPE is designed for men. PPE that is too big or doesn't fit is a safety hazard.



WIE National Committee meeting



Two of the four Tassie attendees at the ICWES conference; Jess Andrewartha & myself

Quote of the month

"Well behaved women rarely make history"

Laurel Thatcher Ulrich

Women in Engineering Committee Members:

Meredith McQueen, Fiona Evershed, Erin Jackson (nee Driscoll), Cassandra Blazely, Nyssa Muir and Sarah Kube.

Email: wietas@gmail.com



ENGINEERS
AUSTRALIA
Tasmania Division

**Improve your career prospects
by understanding
the game**

Mark and Gunilla will discuss the problems engineers may face in the workplace and suggest a set of skills which you can develop to understand the following:

- Male & female differences in decision-making, communication and assertiveness
- The unwritten “rules” of the organisational game we are playing as employees
- Leadership skills to increase your personal power, and
- How to “play” the game to enhance your career prospects.

DATE: Wednesday, 28 September 2011
TIME: 6.00pm for a 6:15pm start.
VENUE: The Old Woolstore Theatrette, 1 Macquarie Street, Hobart.
COST: EA Members & Aurora Employees **FREE**, \$20 for non-members
RSVP: To Catherine Reading 6234 2228 or creading@engineersaustralia.org.au



Dr Mark Toner, FIEAust CPEng EngExec is a former CEO of Kvaerner Australia (now Jacobs E&C Australia), which was a successful but extremely male-run organisation. He is a management consultant and company director. He has developed a new argument for more women in engineering based on personality types in the engineering profession.



Gunilla Burrowes, FIEAust is Deputy Chair of Engineers Media, a past National Vice-President of EA and a company director. Active over many years in Women in Engineering programs, Gunilla helped instigate EA’s successful theme for 2007: The Year of Women in Engineering. She and Mark are members of EA’s National Committee for Women in Engineering Advisory Board and EA’s National CELM (Centre for Engineering Leadership and Management) Board. They run a gender consultancy business, Gender Matters.

Sponsored by:



ENGINEERS
AUSTRALIA
Tasmania Division

CELM Tasmania



The key purpose of CELM is to enhance professional opportunities for members of Engineers Australia by developing, recognising and promoting their ability to participate in and lead business, innovation and change.

The Tasmania Branch of the
Concrete Institute of Australia invites you attend

Concrete Quality Control

Monday, 26 September, 2011

5.30 pm - registration,
6.00 - 7.30 pm presentation & discussion
Salamanca Inn, 10 Gladstone Street, Hobart

It is contended that existing published standards relating to quality control, mix design and specification have been made irrelevant by the revolution that has occurred in all aspects of concrete technology. Quality control has to date used 28day strength as a criterion with supervising authorities determining whether concrete is acceptable. This is far too late to avoid expensive rectification. It is now clear that control action needs to be based on early age results and is best accomplished by the concrete producer being in charge of QC. Mix design now has to contend with a large variety of cement replacement materials, new admixtures, diminishing supplies of natural sand and the fact that a large proportion of future concrete will be self-compacting. Specification has to be of required properties rather than prescribed proportions and concrete producers must be allowed and encouraged to develop their own standard mixes and arrangements with selected suppliers of materials. This technical evening covers the three key areas of quality control, mix design and specification. It is a must for all involved in the production and use of concrete as the next few years are going to be a time of change and learning.

PRESENTER

KENNETH DAY

Ken Day has enjoyed a long and distinguish career in concrete. He has been a consulting structural engineer, a university lecturer, a precast and prestressed concrete producer and a general investigator and legal expert witness of defective concrete. He is an expert in mix design, quality control and specification. A leader in the field of statistical quality control for concrete and in computerising mix design and QC in his Conad program he gained the reputation as a rebel for originating ideas ahead of their time. Ken a founding member of the Singapore Concrete Institute and an Honorary Member of the Concrete Institute of Australia.

Register at
<https://events.concreteinstitute.com.au/tas11qualitycontrol>

HERITAGE MEETING

DATE: Thursday, 29 September 2011

TIME: 7.30pm

PLACE: Royal Engineers Building
2 Davey Street, Hobart

TONY HOPE

Tony Hope is an author who lives in Hobart. On returning to his birthplace in Hobart in 2000 he began researching some of Hobart's colourful history.

Being a geologist, an obvious place to start the research was the Salamanca Quarry first worked by convicts from 1830.

Tony is a professional geologist with over forty years experience working in Australia and overseas.

Tony's presentation will appeal to persons of many ages and hopefully create a renewed interest in the fascinating history which abounds in Hobart's Sullivan's Cove, Battery Point and Salamanca Place over the past two hundred years.

“A QUARRY SPEAKS”



The illustrated talk covers a period in Hobart's history from 1803 to the present, concentrating on people and activities which made the areas of Sullivan's Cove, Battery Point and Salamanca what they are today. The quarry at Salamanca and adjacent reclaimed land, wharfs, warehouses and industries are outstanding examples of the contribution of the ingenuity and engineering skills of Hobart's pioneers.

RSVP: Catherine on 6234 2228 or
creading@engineersaustralia.org.au

CALENDAR 2011

For up to date information on these and other events,
please visit www.engineersaustralia.org.au/tasevents

SEPTEMBER

Wednesday 14 - Northern Suburbs Railway Action Group - Community Information Session - 7.00pm - Glenorchy Civic Centre - For further information call 6233 2617 or 0437 967 786

Wednesday 21 - CHARTERED STATUS WORKSHOP - BURNIE - Bob Law (National Assessor) - **FREE SESSION** - 5.30pm - UTAS Burnie Campus, Room TBA - Light Refreshments provided - RSVP to Catherine Reading 6234 2228 or creading@engineersaustralia.org.au (Refer to page 13)

Thursday 22 - CHARTERED STATUS WORKSHOP - LAUNCESTON - Bob Law (National Assessor) - **FREE SESSION** - 4.30pm - JMG Offices, 49-51 Elizabeth Street - Light refreshments provided - For catering purposes, RSVP to Catherine Reading 6234 2228 or creading@engineersaustralia.org.au (Refer to page 13)

SATURDAY 24 - CHARTERED STATUS WORKSHOP - HOBART - Bob Law (National Assessor) - **FREE SESSION** - 10.30am - Royal Engineers Building, 2 Davey Street - Tea & Coffee provided - RSVP to Catherine Reading 6234 2228 or creading@engineersaustralia.org.au (Refer to page 13)

Monday 26 - Concrete Institute of Australia - Concrete Quality Control - Presenter: Kenneth Day - 5.30pm to 7.30pm Salamanca Inn, 10 Gladstone Street, Hobart - EA Members \$44.00 - Register at <https://events.concreteinstitute.com.au/tas11qualitycontrol> (Refer to page 19)

Wednesday 28 - Joint CELM & Women in Engineering - (Sponsored by Aurora Energy) - Corporate Games - Dr Mark Toner, FIEAust CPEng EngExec & Ms Gunilla Burrowes, FIEAust - 6.00pm for 6.15pm start - Old Woolstore Theatre, 1 Macquarie Street, Hobart - EA Members & Aurora staff **FREE** - Non Members \$20.00 - **ALL WELCOME** - Registration & Pre-Payment Essential to Catherine Reading at 6234 2228 or creading@engineersaustralia.org.au by no later than Wednesday, 21 September 2011 (Refer to page 18)

Thursday 29 - Heritage - A Quarry Speaks - Tony Hope (Author & Geologist) - 7.30pm - Royal Engineers Building, 2 Davey Street, Hobart - RSVP to Catherine Reading at 6234 2228 or creading@engineersaustralia.org.au (Refer to page 19)

OCTOBER

Monday 10 - ALAN BURN MEMORIAL LECTURE - HOBART - Dechlan Ellis, FIEAust CPEng (SKM Pty Ltd) - **Contribution of Military Engineers to Humanitarian and Recovery Operations** - Old Woolstore Theatre, 1 Macquarie Street - 5.30 for 6.00pm - Light refreshments available - **FREE SESSION** - RSVP to Catherine Reading 6234 2228 or creading@engineersaustralia.org.au (Refer to page 12)

Tuesday 11 - ALAN BURN MEMORIAL LECTURE - DEVONPORT - Dechlan Ellis, FIEAust CPEng (SKM Pty Ltd) - **Contribution of Military Engineers to Humanitarian and Recovery Operations** - Gateway Inn, 16 Fenton Street - 5.30 for 6.00pm - 2 Course meal \$15 EA Members or \$25 Non Members - RSVP to Catherine Reading 6234 2228 or creading@engineersaustralia.org.au (Refer to page 12)

ADVANCE NOTICE LATE OCTOBER:

Tuesday 25 - Geomechanics - Anticipating Engineering Properties and Behaviour from Geological Knowledge - Alan Moon (Senior Principal, Coffey Geotechnics) - 5.30 for 6.00pm - UTAS Sandy Bay Campus, Main Engineering Lecture Theatre 201 - No RSVPs required

Wednesday 26 & Thursday 27 - EEA 2 DAY COURSE - Risk & Liability Management - Salamanca Inn - 8.30am to 5.00pm - **HOBART** - \$792 (EA Members) - \$990 (Non Members) - Download registration form at www.engineersaustralia.org.au/tasevents

Thursday 27 & Friday 28 - EEA 2 DAY COURSE - Developing Your Management Expertise - Salamanca Inn - 8.30am to 5.00pm - **HOBART** - \$792 (EA Members) - \$990 (Non Members) - Download registration form at www.engineersaustralia.org.au/tasevents

**16th Engineering Heritage
Australia Conference
Hobart, 13 - 16 November 2011**

Registrations are now open.
Full information on the website
Register on line at
www.cdesign.com.au/ehac2011