

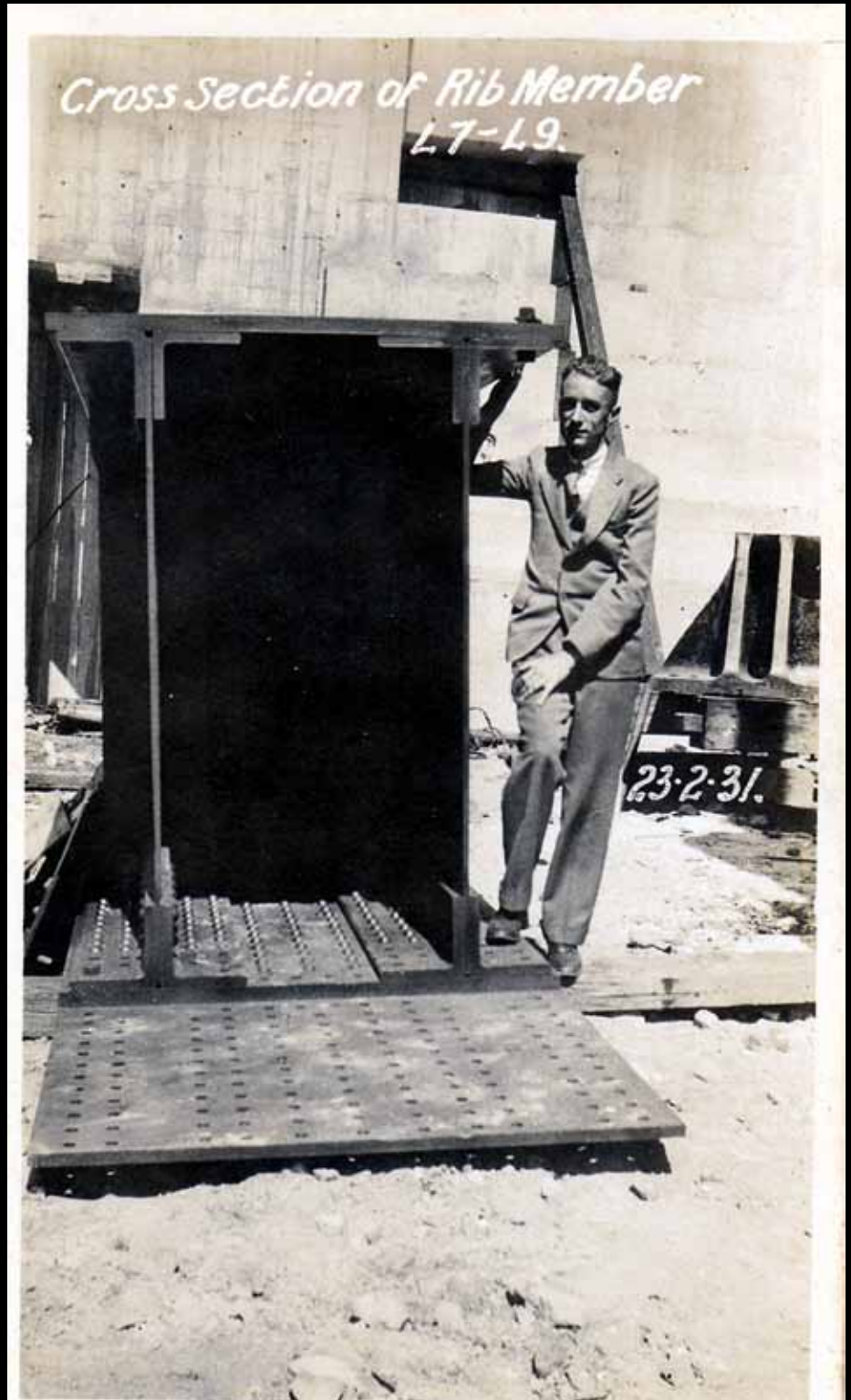
90

ENGINEERS AUSTRALIA 90th ANNIVERSARY
Looking forward. Looking back.

Engineering Queensland News

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Engineering Queensland News

Management Committee

- Division President (Chair) **Mr Andrew Chapman**
MIEAust
- Deputy President **Mr Michael Brady**
MIEAust CPEng
- Immediate Past President **Mr Michael Ganza**
MIEAust CPEng
- Executive Director **Mr Ian McEwan**

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Content of this newsletter was correct at the time of printing. Please check the website for the most up to date listings of events and programs.



Every year in the first week of August we celebrate Engineering Week. It is a week where we try to highlight to the community the diversity of our great profession. On Wednesday 5 August we hosted the Engineering Week lunch where the Premier, the Honourable Anna Bligh, was our guest speaker.

We were able to hear directly from the Premier about the plans for the short, medium and long term development of the state. It also provided us with the avenue to speak directly to the Premier about the need to maintain the high levels of investment in infrastructure. This is imperative to ensure that the economic growth of this state is unconstrained whilst also providing improvements to the community's standard of living.

This event was supported by all the division's sponsors and it was great to be able to recognise the significant contribution that they make through financial support of engineering activities that can be brought to the members at lower rates. Special acknowledgement goes to platinum sponsors Leighton Contractors and Queensland Department of Transport and Main Roads for their support in 2009.

We also used this event as an opportunity to announce the top 30 engineering achievements in Queensland over the past 150 years (listed on page five), as part of the Engineering Wonders of Queensland program. The publication for this initiative is to be launched at the Hawken Address on 13 November 2009.

The engineering achievements that have made the shortlist have played an important role in the development of the state over the past 150 years, and to the communities which have grown as a result of these accomplishments. It is this function that we are trying to promote to the community, that the engineering profession has played a defining part in Queensland's past development and will continue to do so in the state's continued progress.

PLATINUM SPONSORS



GOLD SPONSORS



SILVER SPONSORS



It is indeed fitting that Thiess, a Queensland company that has been synonymous with Queensland's development and growth over half that period, has agreed to be the partner sponsor for the Engineering Wonders of Queensland initiative.

We have a very important part to play in the state's future through the work that we, as a profession, do daily. We hold the keys to overcoming some of the greatest challenges going forward (energy security, water security, transport and movement, health, etc). We therefore have a responsibility to work with governments and the community to discuss our path forward and will continue to do so.

We should be proud of our great profession in all that we do because it has a remarkable impact on society, community and the economy! I therefore encourage you to celebrate our achievements and help raise the profile of Engineering.

Until next time.
Engineer your future!

Andrew Chapman
2009 President, Queensland Division

Cover image

For our last edition for 2009, we have chosen an image of a young Harold Davies at the construction site of the Sydney Harbour Bridge. Co-founder of Cardno in 1945 and part of the team that built the Sydney Harbour Bridge, Mr Davies' recent passing at the age of 105 marks the end of the remarkable life of an inspiring engineer. See page 15 for a tribute. Images kindly provided by the Davies family.

Engineering Success with Premier Anna Bligh

On Wednesday 5 August, Engineers Australia hosted the third 2009 instalment of our Engineering Success series of corporate events at the Brisbane Convention and Exhibition Centre.

Master of Ceremony, Channel 7 journalist Ben Davis, welcomed guests by offering an alternative perspective on the engineering elements of sport. A word from the Queensland Division President, Andrew Chapman, then kicked off proceedings, followed by a presentation from Martin Albrecht on the upcoming publication, *Engineering Wonders of Queensland*. Featuring the top 150 engineering achievements in Queensland's 150 years, with a special feature on each of the top 10, the publication is to be released at the Hawken Address on Friday 13 November 2009.

Premier Anna Bligh began her presentation by acknowledging the contribution the engineering industry has made to Queensland's development. She stressed the importance of optimism for the future in the current economic climate and highlighted Queensland's resilient economy when compared to other states.

The Premier spoke about the Queensland Government's infrastructure program, drawing attention to key upcoming projects such as the Gold Coast Rapid Transit project, Pacific Motorway Upgrade and expenditure in health (Prince Charles, Gold Coast and Robina hospitals to be upgraded this financial year) reaching an estimated \$18 billion worth of activity.

Bligh went on to recognise the importance of these projects for employment in Queensland, with emphasis placed on the provision of jobs for skilled workers in the engineering field. The Premier acknowledged that any future skills shortages in Queensland, resulting from workers seeking employment overseas or interstate, could provide problems for the state further down the track when the economy strengthens.

Also touched upon was her recognition of the value in partnering schools with the engineering community to build interest in the profession. The Premier mentioned the low level of new apprenticeships being taken on by organisations (about 7,000 less apprentices in engineering and construction in 2009) and the government's intentions to approach companies to form a strategy to increase these numbers.

The Premier later accepted questions from the audience, and Robert Matchett from the Centre for Engineering Leadership Management asked the Premier about leadership and which key attributes engineers should embrace to drive engineering into the future. Premier Bligh offered the advice 'Always have a vision of where to take the organisation next. Have an agenda that moves forward and the courage to deliver it.'

Thanks to all who attended another great Queensland Division event. We video-streamed the event so all those who were unable to attend could have an opportunity to hear the Premier's address to Engineers Australia members and stakeholders. To view *Engineering Success with Anna Bligh*, please visit our website qld.engineersaustralia.org.au.



Left: Premier Anna Bligh acknowledged the contribution of engineering to society and spoke about the Queensland Government's infrastructure program.



Left: Martin Albrecht talks about the *Engineering Wonders of Queensland* publication to be released in November.



Far left: Engineers Australia Corporate Relations team Taylor Hunter and Christine Seaman



Left: Master of Ceremony, Channel 7 journalist Ben Davis

New chartered and fellow members

Congratulations to the following members who have recently gained fellow status:

Dr Paul Wilson	FIEAust	Mr Paul Martin	FIEAust CPEng
Mr Peter Dunks	FIEAust CPEng (Ret)	Mr Ted Wheal	FIEAust CPEng
Mr James Kwok	FIEAust CPEng	Dr Jose Ramon Lopez-Roldan Otaduy	FIEAust

We would like to congratulate the following members who have recently gained chartered status:

Mr Wajahat Ali	MIEAust CPEng	Dr Raymond Hope	MIEAust CPEng
Mr David Borg	MIEAust CPEng	MAJ Andrew Hutchinson	MIEAust CPEng
Mr Pierre Botha	MIEAust CPEng	Mr Stuart Jones	MIEAust CPEng
Mr Michael Brice	MIEAust CPEng	WGCDR Anthony Kepczyk	MIEAust CPEng
Dr Sean Brady	MIEAust CPEng	Mr Rabi Kundu	MIEAust CPEng
Mr Andrew Catto	MIEAust CPEng	Mr John Lawrence	MIEAust CPEng
Dr Gavin Chadbourn	MICE MIEAust CPEng	Mr Michael Lees	MIEAust CPEng
Mr Song Chai	MIEAust CPEng	Mr Simon Levy	MICE MIEAust CPEng
Miss Jennifer Charlesworth	MICE MIEAust CPEng	Dr Seyed Mahini	MIEAust CPEng
Mr Tomasz Cichosz	MIEI MIEAust CPEng	Mr Gairik Majumdar	MIEAust CPEng
Mr Christopher Darbyshire	MCIBSE MIEAust CPEng	Mr Brendan McAuley	MIMechE MIEAust CPEng
Mr Javier Del Mundo	MIEAust CPEng	Dr Benjamin McGarry	MIEAust CPEng
Mr Bo Dolman	MIEAust CPEng	Mr David Mason	MIEAust CPEng
Mr Christian English	MIEAust CPEng	Mr Derek Millar	MIEAust CPEng
Mr Jamie Fellingham	MIMechE MIEAust CPEng	Mr Stephen Millington	MIMechE MIEAust CPEng
Mr Edgar Ferrer	MIEAust CPEng	Mr David Moore	MIET MIEAust CPEng
Ms Pamela Fines	MIEAust CPEng	Mr Joo Ng	MIStructE MIEAust CPEng
Dr Abhiram Gopinath	MIEAust CPEng	Mr Richmond Nichols	MIEAust CPEng
Mr Leigh Graham	MIEAust CPEng	LT Keyurkumar Patel	MIEAust CPEng
Mr Stephen Hale	MIEAust CPEng	Mr Guy Porter	MICE MIEAust CPEng
Miss Heather Hirst	MIEAust CPEng	Mr Junbo Qian	MIEAust CPEng
Mr Marcus Holford	MICE MIEAust CPEng	Mr Gurjit Singh	MIEAust CPEng

ENGINEERING EXCELLENCE AWARDS

Friday 2 October 2009

Brisbane Convention and Exhibition Centre

Tickets available now:

Engineers Australia Members	\$175.00 incl GST
General Admission	\$195.00 incl GST
Corporate Table (10 persons)	\$1,850.00 incl GST

Contact Engineers Australia, Queensland Division
Telephone 07 3832 3749
Email qldEvents@engineersaustralia.org.au



Engineers - Watch This Space



Above: The winning team from the International Space Settlement Design competition held last month at the Johnston Space Centre, Houston, Texas. The Australian members are in the light blue long sleeve shirts in the middle of the group.

For the past three years, the Queensland Division of Engineers Australia has arranged technical experts, mentors and judges for the finals of the Australian Space Station Design Competition held over three live-in days at University of Queensland's St Lucia Campus.

Following the Australian finals, 14 students from three Queensland schools were in the winning team of 30 students at the International competition held at NASA's Johnson Space Centre, Houston, Texas.

These winning-team students were from St Laurence College, All Hallows School and St Aidan's School

Since 2005, in excess of 30% of all students who participated in the Australian competition continued their tertiary education in engineering, science, maths and medicine.

More information is available at ausspacedesign.org.au

Engineering Wonders of Queensland

Engineers Australia, in partnership with Thies, is developing a publication featuring the top 150 engineering achievements in Queensland since becoming an independent state 150 years ago. This free publication will have a particular focus on the top ten projects and systems announced at the Hawken Address on 13 November 2009.



Here is a glimpse of the top 30...

- | | |
|---|--|
| <ul style="list-style-type: none"> Mount Morgan mine and rack railway State railway network (coal network) Tinaroo dam and irrigation system Somerset dam Bundamba advanced waste water treatment plant SEQ water grid UQ hyshot scram jet engine Story bridge Gateway bridge Pacific motorway M1 Brisbane to Gold Coast Brisbane busways Mt Isa mines Burdekin rail road bridge, Ayr Brisbane sewerage system State road network | <ul style="list-style-type: none"> Telecommunications systems Cane harvester developments Burdekin Falls dam Walkers of Maryborough Electricity grid Wivenhoe dam Gladstone industrial complex Port of Brisbane Fisherman Island development Brisbane airport Coal mines and ports Thargomindah lighting by artesian generator Kuranda railway Toowoomba Range railway Oil refineries Sugar network |
|---|--|

...can you guess the top 10?

Information for technologists and associates

A chartered status workshop, specifically directed at technologists and associates, was recently conducted and was well attended. The workshop demonstrated the procedure and the benefits to gaining chartered status.

Chartered status assists technologists and associates in showing their commitment to professional competence and development to current or future employers. The status is maintained through 150 hours, every three years, of self assessed Continuing Professional Development.

The Queensland Division Committee has established a working party to review situations where the Professional Engineers Act is affecting engineering technologists and engineering associates. As its first challenge, the working party will consider concerns raised by engineering technologists and associates that the Act is currently being used for purposes not intended for it (e.g. authorities using the RPEQ as the sign-off requirement of work that is within the scope and competence of an engineering technologist or associate). In most situations these are works being performed under prescribed standards including engineering standards issued by those authorities.

The Government of Western Australia, in association with Engineers Australia, have released a discussion paper titled 'The Regulation of Engineers in Western Australia'. The paper cites the Queensland Professional Engineers Act as an appropriate model. One of the questions asked by the paper is the inclusion of technologists and associates in any register. Public comment is sought by 30 September 2009.

For a copy of the discussion paper and the chartered status handbook (pictured right), visit qld.engineersaustralia.org.au

Mal Mathie
Chair of Engineering Associates
Hari Krishnan
Chair of Engineering Technologists

For more information

Contact the Queensland Division
Telephone 07 3832 3749
Email qld.engineersaustralia.org.au



OUR PEOPLE CARE ABOUT THE ENVIRONMENT, AND THEY'RE ALWAYS LOOKING FOR WAYS TO SHOW IT.



Learning workshops for structural engineers

A series of learning workshops will commence in September of this year. The workshops will be aimed at helping structural engineers make the transition from university graduate to professional structural engineer.



The workshops will educate engineers on the overall structural design process. From project conception through to delivery with a focus on understanding the client needs, conceptual design, selection of the appropriate design scheme and production of the finished detailed design – an area of learning that is often difficult for universities and consulting organisations to provide.

Each workshop topic will focus on a particular structure type including highrise buildings, highway and pedestrian bridges, as well as water retaining structures and silos.

These workshops form a key aspect of Engineers Australia's commitment to providing engineers with practical, challenging, and highly relevant CPD.

For specific details of the learning workshops, visit the Engineers Australia website qld.engineersaustralia.org.au

Podcasts and video streaming of previous presentations can be viewed at qld.engineersaustralia.org.au. This includes the presentation by the Structural College's 2009 Eminent Speaker, Professor Keith Crews who discussed sustainability of infrastructure and the role played by structural timber.

Left: Professor Keith Crews (left), the Structural College's 2009 Eminent Speaker, accepting a certificate of appreciation from Rob Heywood, the Queensland representative of the Structural College Board.

MAKE IT SO MY CAR CAN FLY LIKE A PLANE

Make it so. With these three words we will show all Australians that the engineering team make things happen. The Make it so campaign aims to change the way Australians think and talk about engineering.

Visit Makeitso.org.au, join our campaign, and Make it so.



ENGINEERS
AUSTRALIA

Exciting times to be an engineer

The annual Central Region Engineering Conference (CREC) was held at CQUniversity in Rockhampton on 14-15 August 2009. More than 100 engineers from the area attended the event, which examined regional sustainability and hoped to inspire local solutions to global problems.

The Minister for Public Works and ICT, the Hon Robert Swarten (pictured below), gave the keynote address in which he remarked that these were exciting times to be an engineer, particularly with opportunities for involvement in renewable energy and sustainability projects.

Minister Swarten expressed pride in the government's commitment to a wide range of renewable energy industries, including wind power, solar, solar thermal and geo-thermal.



Above: The Hon Robert Swarten was the keynote speaker at the conference

With a diverse program of topics, CREC09 sessions included:

- power
- transport and industries
- energy and the environment
- advanced resources technology
- sustainable development
- climate change
- sustainable management of resources.

Technical presenter Simon Orton, from the Centre for Engineering Leadership and Management (CELM), said there was no perfect age for engineers to become leaders, as long as they had relevant professional development. Simon spoke of the difference between being a 'leader' and a 'manager' but concluded by saying that a combination of both could be a 'potent force when working in harmony'.

International expert on sustainable development, Alex Zahnd, was the guest speaker for the conference dinner. Alex had spent the past 13 years working as a volunteer in Humla, Nepal, as Project Director for Rural Integrated Development Services, performing sustainable electrification of impoverished villages in the Himalayans.

Other speakers included:

Ian McLeod
Chief Executive Ergon Energy

Professor Elizabeth Taylor AO
Pro-Vice Chancellor and Executive Dean of the Faculty of Sciences, Engineering and Health, CQUniversity

Professor Scott Bowman
Vice-Chancellor of CQUniversity.

Special thanks to the CREC09 sponsors: Ergon Energy, Department of Transport and Main Roads, Cardno, and CQUniversity.

Congratulations to the Rockhampton Local Group for such a successful conference! Special mention goes to the organising committee for their significant efforts towards coordinating this excellent event.



Ipswich Local Group presents:

SOUTHERN ENGINEERING CONFERENCE 2009

INFRASTRUCTURE INVESTMENT FOR A NEW ECONOMY

Saturday 17 October 2009

Proposed program
8.30 am to 4.00 pm

University of Southern Queensland

The Southern Engineering Conference aims to provide a forum for the sharing of information, experiences and ideas to prepare for a changing economy.

For more information contact:
Engineers Australia
Queensland Division
Telephone 07 3832 3749
Email qld@engineersaustralia.org.au

Left: Building 37, CQUniversity, Rockhampton. This beautiful campus was the venue for CREC09.

Thanks to the CREC09 sponsors:



The Northern Engineering Conference - 50 Years Ago



Above: Engineers attending the 1959 meeting in front of the old Cairns City Council offices.

Visit the Groups page on qld.engineersaustralia.org.au for the full article, further photographs and a list of members featured in this photograph.

In the years following World War II, there was a high level of engineering activity to overcome the lag in infrastructure. 'Annual Joint Meetings' were held by the Cairns and Townsville local groups of Engineers Australia. At these meetings, papers were presented and inspections were arranged to cover projects of interest.

In due course, the Mt Isa and Mackay local groups joined the circuit and soon, members from Papua New Guinea (then an Australian Territory) were in attendance. The annual meeting in June 1965 was actually held in Port Moresby and was a well-attended success.

In recent times the 'Annual Joint Meeting' was renamed 'Northern Engineering Conference' and continues to flourish, 50 years on, drawing a good attendance each year.

Summary of *The Northern Engineering Conference 50 Years Ago* by Norm Traves.

The 2009 Northern Engineering Conference is to be held at Mackay Entertainment and Convention Centre on Thursday 5 to Saturday 7 November 2009.

For more information contact the Queensland Division on 07 3832 3749 or qld@engineersaustralia.org.au.

ADVERTISEMENT

Busways open for business

Brisbane's Northern Busway, from the Royal Children's Hospital to Windsor in the inner-north, and the Eastern Busway, from Eleanor Schonell Bridge to the South East Busway at Buranda, are open for business.

Queensland Minister for Transport Rachel Nolan welcomed thousands of Brisbane residents who took the opportunity to walk these busways at two community open days before bus operations began.

The Northern Busway features a 1.2km elevated bridge structure running parallel to Bowen Bridge Road, with a new station at the Royal Brisbane and Women's Hospital. The station features environmentally sustainable features including four water tanks with capacity for 184,000 litres of water, and solar panels capable of producing 12 kilowatts of power to supply back to the electricity grid. Design of the station also incorporated natural ventilation and lighting as part of the environmentally sustainable design. Commuters will be able to monitor the amount of power produced and water usage on a large display panel.

The 2.1km Eastern Busway includes a 640m long tunnel, making it the longest busway tunnel in Australia. The tunnel passes just six metres under the heritage-listed Boggo Road Gaol.



Ms Nolan said the Eastern Busway includes a new station at Princess Alexandra Hospital and the new Boggo Road busway station located adjacent to the Park Road rail station.

"The Boggo Road busway station provides a link to the Park Road rail station as well as the upcoming Boggo Road Urban Village currently under construction. From this location, commuters can change modes of transport and catch a train to the city, the Brisbane Airport, Gold Coast, Beenleigh or Cleveland.

"The state government has invested \$564 million in these projects to provide more frequent and reliable bus services to better connect people and places," she said.

Busways make it easier and therefore more appealing for people to use public transport as an alternative to private vehicles. Construction of the next section of the Northern Busway from Windsor to Kedron and the Eastern Busway from Buranda to Main Avenue at Coorparoo are underway and due for completion in 2012.

Photograph: Paul Schmidt.



Young Engineers Australia talk about their generation



Young Engineers Australia held a generation and gender exchange event with Women in Engineering, a personal tax information session for end of financial year and the Entrepreneur's workshop for Engineering Week with the Innovation Sub-Committee.

Gen2X (Gender and Generational Exchange) was held at the Clovelly Estate Cellar Door on 25 June and brought together engineers from different generational backgrounds.

Guests joined in commenting on a generational wall, listened to a very humorous debate and spent time networking with their colleagues. The night proved to be both fun and informative as it gave a chance for everyone to provide insights into how the profession has changed throughout the years. The comments on the generational wall posters focused on stereotypical trends and attitudes. The highlight of the evening was the debate that 'Technology has made Engineering Easier'.

Special thanks must go to the Women in Engineering for their support in making this event a success, and our debaters: Geoff Haigh, Cohan Drew, Alistair Pinkard, Jamie Mullen, Simon Orton and Leanne Bond.

Anthony Ponti of Fahey & Ponti spoke to a large group of enthusiastic young engineers wanting to learn more about personal tax. He presented us with very useful information on how to assess our own tax deductions, understand the tax value of investments and other important guidelines around doing your tax return.

The Entrepreneur's Workshop was a truly inspiring event where Mark Harvey (CM Capital), Alistair Smith (Davies Collison Cave) and Bob Waldie (Chairman and CEO Opegear) spoke about the opportunities, pit falls, legal and financial issues of making your idea a commercial reality. Bob captivated the audience with his enthusiasm and success stories.

Please contact the Queensland Division on 07 3832 3749 or email qldevents@engineersaustralia.org.au to book a table or for any enquiries about this event.

Melanie Fatseas
YEAQ Chair

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KNOWLEDGE



INNOVATION



VALUE

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The Women in Engineering group have been busy...



The Women in Engineering (WIE) group has been busy in recent months. In June we joined with Young Engineers Australia Queensland group and CELM for the GEN2X debate and networking night as mentioned in the Young Engineers Australia article on page ten.

At the end of July, the WIE group held their first technical session with Terri Butler from Maurice Blackburn Lawyers presenting Employees Rights and Responsibilities. The topics discussed included parental leave and the eight key issues to look out for in an employment contract such as restraints of term and redundancy entitlements. This excellent information and presentation will be video-streamed on the Engineers Australia Queensland website so make sure you have a look and know your rights before you need to and save yourself from a costly or stressful situation.

During Engineering Week, WIE held a Trivia and Networking Night at the Chalk Hotel in Woolloongabba. The Trivia night is fast becoming a popular annual fixture on the WIE calendar and this year was no different with over 60 participants. As well as general trivia, this year an engineering round was introduced which really stretched the knowledge banks.

Flyers have gone out for the Women in Ground Engineering evening being held jointly with the Australian Geomechanics

Society on 17 September at Engineering House and The Mill Hotel. Four female geotechnical engineers will be presenting on various topics with networking over drinks and nibbles afterwards. You do not need to be female or a geotechnical engineer to come along and hear from these talented engineers, so please support them and attend this unique event. Generous industry sponsorship means this event will be free to attend.

Don't forget that you can contact the committee on wieqld@engineersaustralia.org.au with any ideas, suggestions and feedback.

Kristina Schaeffer
WIE Chair



Above: The organisers, debaters and judges of the Gen2X evening at Clovelly Estate

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New Farm Power House

New Farm Powerhouse, a performing arts centre in a Brisbane's inner-city suburb started its life in 1926 as New Farm Power House, it was derelict from 1971 to 1990 and was transformed into a performing arts centre in 1994.

Soon after its formation from numerous Shire Councils, the Brisbane City Council established this 'cathedral' type building to house a coal-fired electricity generating plant to supply Brisbane Tramways. The plant also provided electricity to consumers in the Greater Brisbane area but excluding the CBD.

Engineering Aspects:

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- Chain-grate boilers with steam pressure of 300psi
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- Electricity to Tramways was converted to Direct Current (DC) at various Tramway substations.
- Reactors were provided to connect between power station busbars to limit fault currents.
- Condenser cooling was provided by river water



Top: Interior view of the New Farm Power House, New Farm, Brisbane, 1942

Above: New Farm Power House, as seen from the Brisbane River, ca. 1950

Images courtesy of John Oxley Library, State Library of Queensland.



bsm@qube.151 CRICOS No.00213J Courtesy of Llewellyn Davies Yeang, QUT Adjunct Professor Ken Yeang

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Bligh Tanner joins PDP

Congratulations to Bligh Tanner for joining Engineers Australia's Professional Development Program (PDP). The organisation's participation in the PDP will give a structured program to mentors and participants to focus on areas of development and progress their skills. The program will also allow Bligh Tanner to strengthen the knowledge and confidence of their teams and their workplace environment.

For more information about the Engineers Australia PDP, please contact Megan Purdy on mpurdy@engineersaustralia.org.au



Above: Chris Tanner (Director and Principal Environmental Planning Engineer), David Hamlyn-Harris Director and Principal Water and Environmental Engineer) and Ciara Commins (Civil Engineer) of Bligh Tanner

Future-proofing Australia

Rising to the challenge of climate change

32nd ATSE National Symposium 16 - 17 November 2009 Sofitel Brisbane Grand Central

Focussing on the potential of current and future low emission technologies and other greenhouse gas abatement strategies. Four large emissions sectors will be addressed including electricity generation, transport, the minerals industry and land management.

Special rates for Engineers Australia members:

\$600 before 30 September incl GST

\$700 from 1 October incl GST

Contact ATSE to register:
Telephone 03 9864 0908
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Harold Davies

MBE HonFIEAust CPEng

1903 - 2009

The passing of Harold Davies at the age of 105 on 12 July 2009 marks the end of the life of a remarkable engineer.

Mr Davies was part of the team who created an Australian icon, the Sydney Harbour Bridge, and co-founder of global professional services firm, Cardno.

He completed a Bachelor and then a Masters degree in Civil Engineering from Sydney University and was regarded by his private and business associates as a man of great integrity, intelligence and professionalism.

In 1945, following the end of World War II Mr Davies and fellow engineer, Gerry Cardno established Brisbane-based engineering consultancy Cardno & Davies.

Mr Davies is attributed to have designed the first canal layout plan for canal developments on the Gold Coast, with particular emphasis on flood-proofing the region. In the mid 1970s he was awarded an MBE for services to the Australian engineering industry and took great pride in receiving the award from the Queen Elizabeth II at Buckingham Palace.

Engineers Australia recently planted a tree in Mr Davies' honour at the Canberra International Arboretum and Gardens. The tree planting is in recognition of individuals who have delivered conspicuous service to the Australian people through the engineering profession.

Mr Davies is survived by his wife of 48 years, Carmel, their three children, John, Geraldine and Claudia, six grandchildren and two great grandchildren.

Below: A young Harold Davies on the Sydney Harbour Bridge



Robin Black

FIEAust CPEng

1940 - 2009

Engineers Australia mourns the recent passing of Robin Black, a Queensland member who made major contributions to the profession over a period of more than 45 years.

Mr Black's association with Engineers Australia began when he became a student member at the end of his first year as an undergraduate. A fellow by the time he passed away after a battle with leukemia, Mr Black spent the 11 years since his retirement endowing Engineering Heritage with his enthusiasm, energy and wit.

Born in Ashgrove in 1940, Mr Black graduated BE (Civil) from the University of Queensland (UQ) in 1962. His engineering career was concentrated on hydrology and hydraulics and included working on the Mareeba-Dimbulah project, where he reported to Henry Hannan, grandson of the Hannan of Kuranda railway fame.

At Mareeba, he met a CSIRO tobacco research officer named Robyn who was later to become Mrs Black.

Mr Black served as lecturer at the Queensland Institute of Technology for a number of years. In 1972, he completed a Master of Engineering Science at UQ and was appointed Senior Lecturer, the position he held until his retirement. He performed as assistant head of Department coordinating course development, notably Associate Diploma, Graduate Diploma and Master of Engineering Science.

An articulate and entertaining lecturer, communicator, and author of several papers, Mr Black is well known and highly regarded throughout Queensland's engineering academia.

In recent years, Mr Black's illness restricted but did not dull his lifelong enthusiasm for engineering history and heritage. Engineers Australia celebrates his achievements and gives thanks for his commitment to the profession.



Contract Management Training

September - November 2009

Practical courses presented by experienced industry practitioners that can answer your questions

Courses provide CPD points consistent with guidelines of Engineers Australia

Month	Days	Location	Course Title
SEPTEMBER	18	Townsville	Contract Negotiation Fundamentals
OCTOBER	6-7	Gladstone	Contract Administration - Works
	8	Gladstone	Preparing Scopes of Work & Specifications
	27-28	Sydney	Advanced Contract Management for Superintendents
	29	Sydney	Decision Making & Writing for Superintendents
NOVEMBER	4-5	Brisbane	Contract Administration - Works
	6	Brisbane	Advanced Contract Management - NEW
	24-25	Melbourne	Advanced Contract Management for Superintendents
	26	Melbourne	Decision Making & Writing for Superintendents
	27	Melbourne	Contract Negotiation Fundamentals

Discounts apply to members of Engineers Australia

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Continuing Professional Development and Corporate Events 2009

To view upcoming Engineers Australia Queensland Events please visit qld.engineersaustralia.org.au

Date	Topic	Speaker/s	Venue	Host
21 September	Short Course: Time Management	TBA	TBA	Engineering Education Australia
22 September	Barcaldine: Understanding the Amendments to the Professional Engineers Act (2002)	Ms Clare Murray, Registrar, Board of Professional Engineers	Department of Transport and Main Roads	Engineers Australia
23 September	Emerald: Understanding the Amendments to the Professional Engineers Act (2002)	Ms Clare Murray, Registrar, Board of Professional Engineers	Australian Agricultural College	Engineers Australia
25 September	Becoming a Chartered Member Seminar	Mr Mike Garret, QLD Assessor	Engineering House Brisbane	Engineers Australia
30 September	The use of estimating software in the construction industry	Mr Rodney Nagel	Engineering House, Brisbane	Innovation Sub-Committee
2 October	Engineering Excellence Awards	NA	Brisbane Convention and Exhibition Centre	Engineers Australia
7 October	Learning workshops on structural engineering: Water Retaining Structure	TBA	Keays Room Engineering House	Structural Branch
12 October	EEA Short Courses: Mentoring Skills	TBA	TBA	Engineering Education Australia
14 October	Learning workshops on structural engineering: Highway Bridge	TBA	Engineering House, Brisbane	Structural Branch
15 October	Precast Concrete Floor Systems in SEQld	Mr Ruiwen Kong and Mr Colin Ginger	Engineering House, Brisbane	Structural Branch
21 October	Engineering Success Breakfast Series	TBA	Sebel City Gate	Engineers Australia
21 October	EEA Short Course: Risk Management	TBA	TBA	Engineering Education Australia
23 October	Becoming a Chartered Member Seminar	Mr Mike Garret, QLD Assessor	Engineering House, Brisbane	Engineers Australia
26 October	Sustainability Assessment Policy Plans and Projects (2 days)	Dr Jenny Pope and Dr Angus Morrison-Saunders	Engineering House, Brisbane	SSEE
4 November	Learning workshops on structural engineering: Water Retaining Structure	TBA	Engineering House, Brisbane	Structural Branch
4 November	EEA Short Course: Project Management Practice Course - Module 5 - Managing Project Quality, Communication & Risk	TBA	TBA	Engineering Education Australia
13 November	Hawken Address	TBA	Customs House	Engineers Australia

Presentation times and dates are subject to change - please check website for up to date information.

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The Hawken Auditorium is located at Engineering House, 447 Upper Edward Street, Spring Hill, 4000.