



ENGINEERS AUSTRALIA 90th ANNIVERSARY  
Looking forward. Looking back.

# Engineering Queensland News

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FITTERS

ERIC

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JERRY

FRED.



ENGINEERS  
AUSTRALIA  
Queensland Division

## 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**  
Deputy Director **Ms Katrina Shears**

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

## 2008 Hawken Address Review

Engineers Australia and Gold Sponsor Maunsell AECOM welcomed Air Vice-Marshal David Dunlop, CSC, as the keynote speaker at the 2008 Hawken Address Awards Dinner held on Friday 21 November at the Customs House in Brisbane. Air Vice-Marshal Dunlop presented the topic 'The F-111 An Ongoing Engineering Challenge' which highlighted historical moments and the trials involved in the creation and maintenance of these truly remarkable feats of engineering.

This prestigious black tie event is held annually to honour the memory of Professor R.W. Hawken.

Professor Hawken was a member of the teaching staff at the University of Queensland for over 35 years and occupied the Chair of Engineering and the office of Dean of the Faculty continuously for almost 29 years. He played a prominent part in the founding of the Institution of Engineers, Australia.

Announcements were made for inductions into the **Queensland Engineering Hall of Fame**, the **Queensland Engineering Technologist** and **Queensland Engineering Officer of the Year** and the **Eric Brier Memorial Award**.

### Congratulations to the following award recipients:

**Inductee to the Hall of Fame 2008**  
Emeritus Professor Mat Darveniza AO

Professor Darveniza is an internationally recognised electrical engineer specialising in lightning protection, high voltage and insulation technology, power system engineering and electromagnetic fields.



Inductee to the Hall of Fame Emeritus Professor Mat Darveniza (Right). Award presented by Tom Baxter (Left), Chair of The Hall Of Fame.

**Past Eminent Inductees to the Hall of Fame**  
Sir Charles Barton (1907 – 1986)  
Julius Kruttschnitt (1885 – 1974)

**2008 Queensland Professional Engineer of the Year**  
Alan McLennan

Alan is the Director of Alan McLennan Strategic Services, an Engineering Consultancy Company specialising in Infrastructure Project Delivery. (Turn to page 5 to read more on Alan McLennan)

**2008 Queensland Engineering Officer of the Year**  
Malcolm Mathie

Mal graduated from the Queensland Institute of Technology with a Certificate in Instrumentation and Control Systems in 1978. During his career he maintained electrical measurement standards to ensure the accuracy of Electricity Meters and designing specialist measurement systems required by the Electricity Distribution Industry.

Mal is currently the chair of Engineers Australia Queensland Division Engineering Associates and State representative on the Associates National committee.

**2008 Australian and Queensland Engineering Technologist of the Year**

William (Bill) Pickering

Bill began his career as an apprentice electrician and graduated from Darling Downs Institute of Advanced Education with an Associate Diploma in Electrical Engineering in 1987. He went on to complete a Bachelor of Technology Degree, (with distinction, Faculty of Engineering Prize and Dean's Commendation – Outstanding performance) at USQ in 1995. (Turn to page 11 to read more on Bill Pickering)

**Eric Brier Memorial Award**

Don Fry AO

Don is the Owner and Chairman of AIMTEK, a large Engineering firm based in Cairns that specialises in research, development, design, manufacture and project management for a range of products for the Aerospace, Industrial, Mining and Marine Industries.



Eric Brier Memorial Award winner Don Fry AO

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## Engineers Australia 90th Anniversary

In keeping with the Engineers Australia 90th Anniversary celebrations this year, Engineering Queensland News will be featuring historical engineering imagery on the front cover of each issue. This edition features *Bridge fitters posing on the framework of the Story Bridge, Brisbane, ca. 1939* Courtesy of: John Oxley Library, State Library of Queensland.

Engineers Australia, Queensland Division would like to invite members to send in any interesting historical imagery or stories relating to engineering in Queensland. Images may be featured in the April, June or September editions. Please send to Christine on [Cseaman@engineersaustralia.org.au](mailto:Cseaman@engineersaustralia.org.au).

## 2008 Annual General Meeting Review

The 89th Annual General Meeting, sponsored by WorleyParsons was held on Friday 5 December at the Novotel in Brisbane. The event recognised and acknowledged the significant contribution of Michael Ganza's Presidency, the inauguration of the new Queensland President Andrew Chapman and the introduction of the 2009 Queensland Division Committee.

Members who received Fellow status in 2008 were also recognised. Congratulations to Kenneth McCarthy, Director of McCarthy & Partners who received his Fellow status on the night. Fellow is a distinguished level of membership above the grade of Member. In 2008, 31 members attained Fellow status in Queensland. This level of membership is awarded to leaders in the engineering profession who have made a major contribution to the science or practice of engineering. Fellow is assessed by a panel of peers and holds great honour in the engineering profession.

The event also recognised two Queensland Engineers Australia members who were the Queensland Award recipients of the Sir John Monash Award, Katie Quinn and Timothy O'Shea. This award is presented to eight outstanding Australian citizens graduating from Australian Universities to enable them to undertake postgraduate study abroad at the world's best Universities, appropriate to their field of study.

Congratulations also to Geoff Haigh FIEAust CPEng, Don Muir FIEAust CPEng and Richard Morgan FIEAust CPEng, who were each presented with an Engineers Australia Medal. This medal recognises meritorious service at the Divisional level by an individual or group in the pursuit of Engineers Australia's goals.

Engineers Australia would like to thank those who generously donated Christmas gifts for the children at The Ronald McDonald House Charity. The Charity was delighted by the large number of gifts donated and sincerely thanks all those that made Christmas 2008 extra special for the children.



2009 Division President Andrew Chapman (Left) with Immediate Past President Michael Ganza



Sir John Monash Award Winner, Katie Quinn



Kenneth McCarthy (Right) is presented with Fellow certificate by Immediate Past President Michael Ganza.

## A Word from the Queensland Division's new Executive Director, Ian McEwan

It is wonderful to return to Queensland Division in the Executive Director capacity. My first impression is that the Division is very vibrant, with many active groups and individuals supporting the organisation throughout the State.

Thank you to all members who continue to drive and support their profession through actively participating in a voluntary office bearer position. This leadership is vital to ensure that the standing of the engineering team is maintained and enhanced.

I look forward to working with and supporting all members throughout the Division in what promises to be a very challenging year. I encourage you to contact me directly if you wish to raise any issues or suggestions on how Engineers Australia can strive to reach the next level.

## Queensland Division Staff

2009 welcomes some new faces to the Queensland Division Office. As well as Ian McEwan (Executive Director) and Megan Purdy (in role of Industry Manager). We also welcome Jessica Roberts (Finance and Administration Officer) and Christine Seaman (Corporate Events Coordinator).

With a slight restructure of roles within the Division Office, we hope to provide the best possible support to Engineers Australia members and make 2009 a highly productive and successful year.

## QLD Branch has a new Industry Manager



Hello everyone, my name is Megan Purdy and I am the new Industry Manager for Queensland. I have joined EA with over 13 years experience in various training, development and practice management roles.

As the Industry Manager, I am responsible for the Professional Development Program (PDP) which is a structured program to help you acquire and develop the competencies required to achieve Chartered Status. This is also a gateway to RPEQ.

Participation in a PDP is open to all engineering practitioners employed in all fields, types and sizes of enterprise.

I look forward to getting out over the next couple of months and meeting more members of Engineers Australia and talking about the benefits of becoming a Chartered Engineer.

**"Looking forward. Looking back."** The first Council of the Australian Institution of Engineers met on the 20th and 21st October 1919. In 1920 William Henry Warren, Challis Professor Engineering at the University of Sydney was elected first President.

*The founding fathers wrote "It is impossible to conceive what possible changes will have taken place in our great Commonwealth when the time comes to record the Jubilee of the greater institution ... it can surely be hoped that, at that future date the Institution of Engineers, Australia, will occupy as important a place in the Commonwealth structure as the parent body, the Institution of Civil Engineers, London, does in Great Britain." (Transactions Vol 1).*

The first headquarters was established in Sydney, presumably based on weight of numbers, and in 1968 the commencement of establishing a new headquarters building in Canberra marked the 50th Anniversary of the Institution of Engineers Australia.

Executive Director	Ian McEwan
Deputy Director	Katrina Shears
Customer Service Officer	Lauren Moon
Finance & Admin Officer	Jessica Roberts
Membership Manager	Julie Sawyer
Membership Officer	Daniel Seguin
Membership Officer	Alicia Machin
Industry Manager	Megan Purdy
Corporate Relations Manager	Lorena Nelson
Corporate Relations Assistant	Karla Smith
Corporate Events Coordinator	Christine Seaman



I firmly believe that 'Engineering' is the greatest profession in the world. We as engineers apply creativity and innovation in everything we do. With that creativity and innovation we have provided and continue to provide improvements in the economy, the community and the world. It's in tough economic times that engineers and the engineering profession have been called upon time and time again to deliver major infrastructure works to help stimulate the economy and employment. It's in these periods that some of our greatest achievements and contributions to the community, the economy and our well-being have occurred through the creativity and innovation of the engineering profession-Sydney Harbour Bridge, Story Bridge, Snowy Mountains Scheme to name a few.

This will be the case again in this current financial crisis as both the Federal and State governments reinforce their commitment to investment in economic infrastructure to ensure we remain competitive and to provide a stimulus for business and the community. Engineers have a major role to play in this: both within government and private industry through the delivery (planning, design and construction and maintenance) of the works.

One of our goals is to engage with the communities in which we work in a more constructive manner. As a profession we don't always communicate what we do well to the community and how we do it. We need to engage with the community so that they understand the value that we as a profession have made, continue to make and how we can help to shape the future.

In this, Queensland's 150th year we will take the opportunity to engage with the local community through local schools, community groups and the media to highlight the value and contribution that we have made to Queensland's development and the standard of living that the community enjoys today. To achieve this we are going to undertake a program to identify, collate and publish information regarding the great engineering achievements in Queensland's 150 years. Stuart Lister has convened a committee to oversee the development of this program and we will be relying on all members of the profession, local groups and sub-groups/ technical societies to assist with the identification of these "Wonders of Queensland Engineering".

To qualify, these achievements/ accomplishments of Queensland engineering must have made a contribution to the local community and/ or the state's economy and have included challenges on the engineering, budgetary and personal sides.

Our intent is to highlight the value that we, as a profession, have made to the community and the state over the past 150 years. This will then enable us to further engage with the community, government, schools etc on how we can continue to contribute to the future and that we- the engineering fraternity- hold the keys to the major challenges facing the community and Queensland into the next 150 years including:

- Climate change and the management of this as well as other environmental challenges
- Transport – how we get around, what modes, what infrastructure- new motive power and mechanical systems
- Manufacturing etc
- Water
- Buildings and sustainable living
- Energy and power

Until next time – enjoy the challenge!!

**Andrew Chapman**

2009 President, Queensland Division

## Engineers Australia – My Organisation

'My Organisation' is a newly created marketing brochure designed to provide useful information about Engineers Australia.

The brochure, which was developed as a result of Engineers Australia's Strategic Marketing Review, provides information on areas including; membership, products and services, professional recognition, volunteering, growing your network and advancing your career. Copies are available from the Queensland Division.

The brochure will be sent to all existing members in 2009.



## Australia Day Honours

Engineers Australia would like to congratulate the following Queensland Division members for their outstanding achievements.

**Dr Ian George Cameron AM, FTSE FICE FIAMA  
HonFIEAust CPEng FASCE**  
**Award: Member of the Order of Australia**

For service to civil engineering, particularly in the area of bridge construction, to dispute resolution, and to professional and community associations.

**Warren Edward Day PSM, FIEAust CPEng**  
**Award: Public Service Medal**

For outstanding public service in the fields of engineering and disaster management.

**Victor Alan Doig OAM, MIEAust CPEng**  
**Award: Medal of the Order of Australia**

For service to surf lifesaving through the promotion of new resuscitation methods, and to engineering.

**Dennis Stanley Wogan PSM, FIEAust CPEng**  
**Award: Public Service Medal**

For outstanding public service to the road design and construction industry.

## Nominate an influential engineer

Nominations are invited for Engineers Australia magazine's list of **Australia's Top 100 most influential engineers**.

[http://www.engineersmedia.com.au/magazines/ea/top100\\_08/index.html](http://www.engineersmedia.com.au/magazines/ea/top100_08/index.html)

Candidates should be engineers who are currently influential through their leadership positions or through their engineering expertise. The aim is to recognise engineers who are leaders of their community but whose engineering background is not often well known. It is not meant to be a historical list.

The list will be published in the June issue of Engineers Australia magazine.

**Nominations can be sent by email to [dgeorg@engineersmedia.com.au](mailto:dgeorg@engineersmedia.com.au) or fax 02 9438 5934.**

In the case of engineering leadership, the nomination should state the size of the company in terms of total staff and annual revenue and responsibilities.

For engineering expertise, the nomination should state the work through which the nominee is considered influential.

The deadline is 20 March. Inquiries can be made on **02 9438 1533**.

## 2008 Queensland Professional Engineer of the Year - Alan McLennan



Queensland Professional Engineer of the Year Alan McLennan (Right). Award presented by 2008 Division President Michael Ganz.

Brisbane based Engineer Alan McLennan has been declared the 2008 Queensland Professional Engineer of the Year. This award is presented annually to an engineer whose professional excellence and involvement in community affairs sets them apart as an example for other engineers to follow. The awardee is automatically nominated as a candidate for the National award in Canberra.

Alan has had extensive experience in the development and management of alliance contracting throughout Queensland and is regarded as a leader in this field. He is director of Alan McLennan Strategic Services specialising in Infrastructure Project Delivery.

In recent years Alan has been involved in a range of major projects including the Gateway Upgrade Project; Ipswich Motorway alternatives; Brisbane Airport Access project; Tugun Bypass project; Airport Link Tunnel project and Bruce Highway projects in North Queensland.

Alan spent 36 years from graduation from the University of Queensland in 1964, primarily with the Queensland Department of Main Roads. He was Executive Director (Transport Technology) of Queensland Transport from 1996 – 2000.

In 1998, Alan was awarded the Public Service Medal for outstanding public service to road building technology. Throughout his professional Engineering career, Alan has been an active member of Engineers Australia and proved to be an excellent role model and mentor for young engineers. Alan has actively participated in community service primarily through the Association of Apex Clubs.

## Congratulations to our Chartered Members

Engineers Australia Queensland Division would like to congratulate the following members who have recently gained chartered status:

Mr Peter Probert	MIEAust CPEng
Mr Robert Crook	MIEAust CPEng
Mr Devesh Tewari	MIEAust CPEng
Mr Sivapragasam Chandrasorupan	MICE MIEAust CPEng
Mr Angel Vargas	MIEAust CPEng
Mr Kenneth Fong	MIET MIEAust CPEng
Mr Samir Omran Mousa Ali	MIEAust CPEng
Mr Yih Chung Wong	MIEAust CPEng
Miss Jennifer Shu	MIEAust CPEng
Mr Gary Gibson	MIEAust CPEng
Captain David Patterson	MIEAust CPEng
Mr Patrick Gunn	MIEAust CPEng
Miss Alyssa Muche	MIEAust CPEng
Mr Carson Care	MIEAust CPEng
Mr Michael White	MIEAust CPEng
Mr Johnny Lau	MIEAust CPEng
Mr Ardy Setiawan	MIEAust CPEng
Dr Michael Barry	MIEAust CPEng
Mr Andrew Cantamessa	MIEAust CPEng
Mr John Cranley	MIEAust CPEng
Mr Christopher Donnelly	MICE MIEAust CPEng
Mr Derek Andrew Freeman	MIEAust CPEng
Mr Malcolm Robert Busby	MIET MIEAust CPEng
Mr Bruce Stuart	MIEAust CPEng
Mr Christopher James Stagg	MIEAust CPEng
Mr Chong Shun Lau	MICE MIEAust CPEng
Mr Douglas Thomson	MIET MIEAust CPEng
Mr Lu Li	MIEAust CPEng
Mr Kingsley Nicholas Chapman	MIEAust CPEng
Mr Bill Terrance Thew	MIEAust CPEng
Mr Robert James Dagnall	MCIBSE MIEAust CPEng
Mr Scott Rackley	MIEAust CPEng
Mr William Davidson	MICE MIEAust CPEng
Mr Kenneth Carl Fergusson	MIET MIEAust CPEng
Mr Simon Roland Warren	MIMechE MIEAust CPEng
Mr Robert Pattie	MIET MIEAust CPEng
Ms Michelle Phillipson	MICE MIEAust CPEng
Miss Ching Wan Karen Oj	MICE MIEAust CPEng
Mr Stuart Wilson	MIMechE MIEAust CPEng

## Congratulations to our Fellow Members

Engineers Australia, Queensland Division would like to congratulate the following members who have recently attained status of Fellow:

Mr Kenneth McCarthy	FIEAust CPEng
Mr Gary Bendell	FIEAust CPEng
Mr Gary Russell	FIEAust CPEng
Dr Richard Taylor	FIEAust CPEng

Mr Brian McMahan	FIEAust CPEng
Mr Alastair Moffat	MIMechE FIEAust CPEng
Dr Rob Heywood	FIEAust CPEng
Mr Casey De Pereira	FIEAust CPEng
Mr Hemant Joshi	FIEAust
Mr John Edwin Gooding	FIEAust
Mr Miro Bradicich	TFIEAust

## New Leader of Australia's Peak Engineering Body



Melbourne-based civil engineer Peter Godfrey, has taken-up the leadership of Australia's peak professional body as National President of Engineers Australia (EA). Godfrey's twelve-month

term as National President of Engineers Australia follows that of Julie Hammer AM.

Born in 1956 in Melbourne and raised in country Victoria, Godfrey came to engineering because he enjoyed maths and science at school. "I have never regretted my choice to become an engineer and I have had some fantastic experiences and continue to be in awe of what engineers, technologists and associates can achieve.

While he is very conscious of the need for more promotion of engineering as a career of choice, he is equally aware of the critical need to ensure that the education sector enables school children to take-up subjects that will open up such a career - Godfrey graduated from Melbourne University in 1979.

"However, without more effort by governments to provide access for students to the fundamental subjects of maths and science in schools the

opportunity to expand Australia's professional engineering skills base will be remain severely inhibited."

With Australia already struggling with an estimated shortage of 28,000 engineering professionals- a figure that could double over the next decade, irrespective of the global credit crisis - Godfrey will be presiding over one of the biggest campaigns EA has ever undertaken to raise the profile of engineering in the community and promoting the profession as a career choice. "At a time when both economic and environmental challenges need strong support from within Australia's own resources, it is essential that strategies and actions to grow our own professional engineering skills base are put very much in the forefront of public awareness, government policy decision-making and corporate sector priorities."

"Also, with the 90th anniversary of Engineers Australia in 2009, we are planning to increase attention by celebrating the achievements of the past and generating excitement for the future of the profession," he said.

Another priority area for Godfrey will be ensuring that Engineers Australia continues to widen opportunities for members, regardless of location, to access information that will encourage them to continue their life-long learning that is fundamental to the status and excellence of the profession.

"Engineers Australia will continue to expand the means by which our entire engineering team can have access to technical information and professional development opportunities, no matter whether they are based in cities or in regional centres or remote places," Godfrey said.

### Engineering Queensland Newsletter Call For Content

We need your contribution of topical and interesting articles to share with the rest of the Queensland Engineering fraternity. Let us know if you have any exciting news/projects happening in Queensland. Articles need to be a maximum of 300 words in length and photos must be sent in a jpg format.

The content deadline for the April edition of the newsletter is the 9th March 2009. For a copy of the Advertising Guidelines and Deadlines for 2009 or for more information contact

**Karla Smith on 07 3832 3749 or email:  
ksmith@engineersaustralia.org.au**



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EcoNomics

We have pleasure in introducing the Division Committee who were inducted in December 2008 at the Annual General Meeting held at the Novotel in Brisbane (also see page 3).

The role of the Division Committee is to collate issues of relevance to further the collective objectives of the profession with stakeholders including Government and the Community in driving outcomes for the Engineering Profession in Queensland and contribute towards achieving National Objectives. As such, Portfolios have been created and each Division Committee member is assigned to a specific Portfolio which represents different Sub-Committees, Branches, Local Groups and Societies associated with Engineers Australia as seen below;

Portfolio Area	Responsible Committee Members	Communications Group
Public Role and Professional Standing	Stuart Lister Andrew Chapman	Electrical Branch, ITEE Branch; Electrical Energy Society of Australia Honours and Awards Committee, Excellence Awards
An Inclusive Professional Team	Hari Krishnan Dennis Wogan	Engineering Associates Australia; Engineering Technologists Australia, Membership; Australian Society for Defence Engineering
Youth Appeal	Elizabeth Schofield Richard Morgan	Women in Engineering, Young Engineers Australia Railway Technical Society of Australia, Transport Panel
Chartered Status	Don Muir Randeep Agarwal	Board of Professional Engineers, Heritage Panel Risk Engineering Society, Society for Building Services
Continuing Professional Development	Suzanne Burow Geoff Haigh	Water Panel, Society for Sustainability & Environmental Engineering, Professional Development; Environmental Branch
International Reach and Influence	Sam Fernando Stephen Goh	Mechanical Branch, Maintenance Engineering Society of Australia; Quality Panel, Innovation Sub-Committee; Materials Society
Internal Communications	Philip Atherton	Chemical Branch; Education Linkages; Biomedical Branch; Management Panel
A Capable Organisation	Michael McVeigh	Structural Branch, Australian Earthquake Engineering Society, Civil Branch, Society for Fire Safety
Finance	Michael Ganza	Division Financial Reporting, Australasian Tunneling Society, Australian Geomechanics Society
Governance – Regional	Mike Brady Andrew Chapman	CELM, Local Groups
Governance – Central	Andrew Chapman	Policy sub-committees, National Office
Engineers Australia Congress	Geoff Haigh Richard Morgan Sam Fernando	Reports from congress, Proposals for Congress

### Objective 1. Public role and professional standing.

To achieve increased recognition of the profession and leadership contribution we make to public policy and national wellbeing.

### Objective 2. An inclusive professional team

To create an ethos where each current and potential member, and each member of staff, feels that their contribution will be valued on its merits, and their needs understood, regardless of their professional or personal background.

### Objective 3. Youth Appeal

To increase the number of young Australians developing careers in engineering and technology.

### Objective 4. Chartered Status

To increase acceptance that the award of Chartered status of our members for their competence is assured measure of continuing professionalism in engineering.

### Objective 5. Continuing professional development

To expand the avenues available to our members for education and learning through their careers, so they may equip themselves better for professional success and strengthen national engineering capabilities.

### Objective 6. International reach and influence

To extend and strengthen our achievements and esteem around the globe, in the interests of our members and the profession.

### Objective 7. Internal communications

To build stronger relationships and shared sense of purpose among all our members and staff through more effective communications.

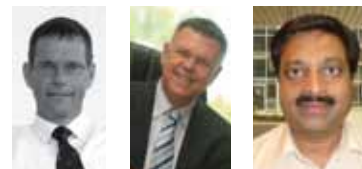
### Objective 8. A capable organization

To harness our complex structures and systems into a more coherent and transparent enterprise for both members and staff.



### 2009 Division Committee

From Left: Michael Ganza, Hari Krishnan, Elizabeth Schofield, Mike Brady, Suzanne Burow, Philip Atherton, Andrew Chapman, Dennis Wogan, Sam Fernando, Don Muir, Geoff Haigh, Stephen Goh and Stuart Lister.



### Additional Members (absent from group photograph)

From Left: Michael McVeigh, Richard Morgan and Randeep Agarwal

## Queensland Water Treatment Plant Wins National Environmental Engineering Excellence Award

The Bundamba Advanced Water Treatment Plant (AWTP) – Stage 1A submitted by Thiess Pty Ltd and Black & Veatch, has won the 2008 Australian Environmental Engineering Excellence Award at the 2008 National Engineering Excellence Awards ceremony in Canberra. The gala dinner was held in November at Parliament House and celebrates the accomplishments of some of the finest engineering companies and individuals in the world. The awards represent the pinnacle of engineering excellence – the embodiment of innovation, creativity and tenacity.

Each year the National Excellence Awards Judging Panel consider the winners of Division and Society Awards for an Australian Engineering Excellence Award. Thiess and Black & Veatch were entitled to enter the Bundamba project into the National Awards as they were the winners of the Project Management Excellence Award category in Queensland.

The design, construction and commissioning of the Bundamba project as the first of three such plants in SE Queensland is part of the \$2.5 billion Western Corridor Recycled Water Project, the largest water recycling project in the Southern Hemisphere.

The plant, located in Ipswich, produces 20ML per day of purified recycled water, which has previously discharged into the nearby river a lower quality effluent. This alliance project, including 16km of 800mm pipelines, was designed, constructed and commissioned in less than ten months to international standards using the highest quality materials, equipment and technology.

Congratulations to the teams from Thiess and Black & Veatch for their outstanding achievement.



Gus Atmeh from Thiess accepts the National Award on behalf of the Alliance.



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Main Roads – Connecting Queensland  
www.mainroads.qld.gov.au

 Queensland Government  
Department of Main Roads



## Young Engineers Australia



The Young Engineers Australia, Queensland (YEAQ) committee are planning for a fabulous 2009. Engineers Australia is celebrating their 90th anniversary this year, in line with the theme "Looking Forward, Looking Back". What an exciting time for young engineers as we are the

future of this profession, we are the "Looking Forward" part. We have the opportunity to lead the way on what the next 90 years will be like for Engineers Australia.

Let me introduce myself, my name is Melanie Fatseas and I am the YEAQ Chair for 2009. I am an electrical engineer who recently started working for EnGenY Management and Resourcing. I am really excited to be part of EnGenY as it is a business owned and operated by our staff. We believe in empowering engineering generations, and facilitate flexible working arrangements that suit the lifestyle of each individual, including semi-retired baby boomers, Gen-X parents and the travelling Gen-Y. When I'm not in the office you will find me at the driving range, playing touch footy, out to dinner, at the pub, on a ski holiday... or at a YEAQ event!

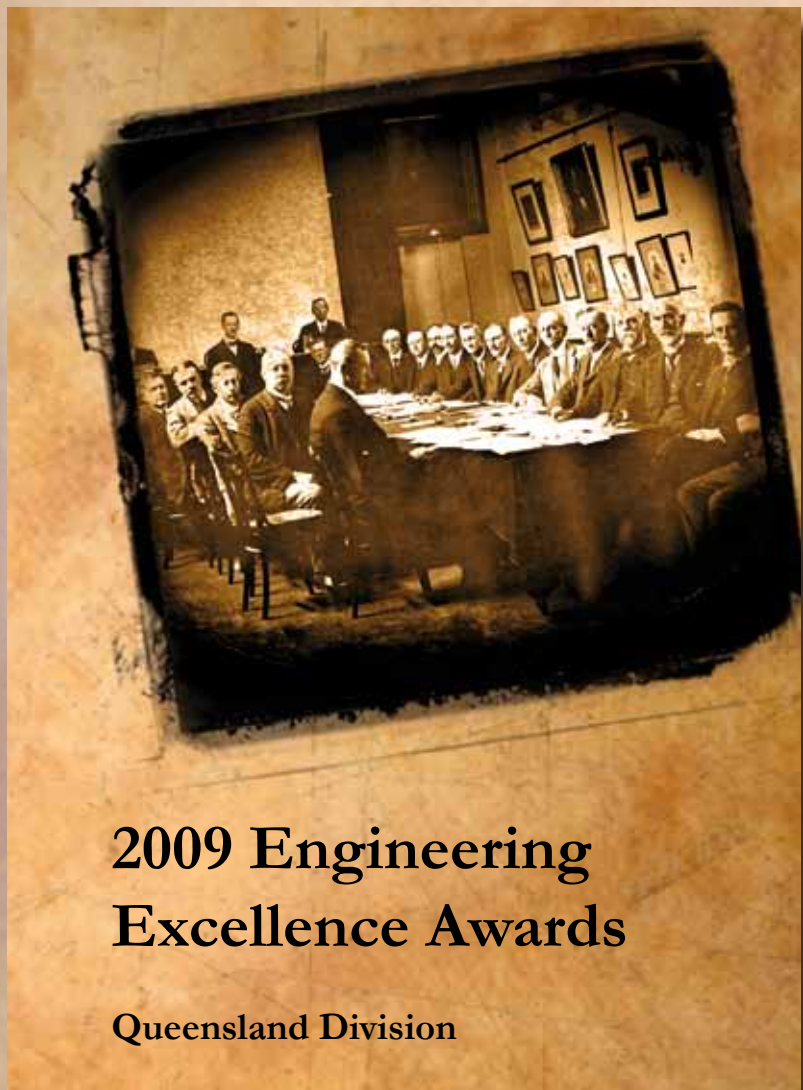
YEAQ events are a great way to meet others in industry, expand your professional networks and most importantly have fun. Some of the events planned for 2009 include: our annual gala ball, generational exchange event, technical presentations on a range of topics and site visits.

### The 2009 YEAQ committee:

- Melanie Fatseas of EnGenY Management and Resourcing Chair
- Catherine Harrington of BP Vice Chair
- Alastair Pinkard of Energex National Representative
- Peter Lugg Secretary
- Renukha Nadarajah of Hyder Consulting Treasurer
- Tim Dettrick of University of Queensland Website Co-ordinator

If you would like to contact us or to be on our distribution list please email: [yeaqldcomm@engineersaustralia.org.au](mailto:yeaqldcomm@engineersaustralia.org.au)

Melanie Fatseas  
Chair YEA-Q



# 2009 Engineering Excellence Awards

## Queensland Division

# Call for Project Entry

Engineers Australia - Queensland Division is pleased to invite entries for the 2009 Engineering Excellence Awards.

### Important Dates

<b>Friday 22 May 2009</b>	Final date to register your intent to enter
<b>Tuesday 30 June 2009</b>	Final date to pay entry fee
<b>Thursday 30 July 2009 5pm</b>	Final date and time for lodgement of submission to the Queensland Division Office
<b>Friday 2 October 2009</b>	Excellence Awards at the Brisbane Convention and Exhibition Centre

We recommend you consider a nomination for the 2009 Engineering Excellence Awards so that you too can take your place as one of Queensland's engineering achievers and be recognised as a leader in your field.

Entry Forms are available from the Division office or alternatively can be accessed online at [www.qld.engineersaustralia.org.au/excellence](http://www.qld.engineersaustralia.org.au/excellence)

For further details or to request an information booklet, contact the Division office on (07) 3832 3749.

## Towards a Sustainable Future

Sinclair Knight Merz (SKM) has reinforced its commitment to sustainability in its 2007-08 annual review.

Launching the review, Paul Dougas, SKM CEO, said, "Sustainability is about responding to inter-related economic, social and environmental issues in creative ways. And the current economic crisis does not mean the environmental crisis has gone away."

The review includes detailed emission reduction targets, following a commitment from Mr Dougas to cut SKM's GHG emissions by 30 per cent per capita by 2011.

"This is an enormous challenge, but we remain committed and will work hard to meet this goal," said Mr Dougas. "We will not purchase offsets until we have reduced emissions as much as possible."

To set the targets, SKM put significant effort into measuring its carbon footprint, using in-house expertise to assess aspects of its business, from air travel to building efficiencies.

## Sustainability in Projects

At the same time, it's through the diverse range of projects with its clients that SKM expects to make the greatest impact.

Examples of SKM's application of sustainability principles include:

### Dampier Port Upgrade, Western Australia

Pilbara Iron (a subsidiary of Rio Tinto Iron Ore) appointed SKM as engineering, procurement and construction management (EPCM) contractor for a \$US1.4 billion expansion of its Dampier port facilities. With a focus on long-term sustainability, this included embedding energy conservation principles, recycling plant water, protecting the local environment, conserving the cultural heritage and safety.

### Skilled Park Stadium, Queensland

SKM applied innovative thinking and sustainability design principles across both structural steelwork, building services and transport management to deliver Skilled Park, a 27,000-seat stadium in Queensland. Skilled Park was delivered ahead of time and under budget.

This unique project demonstrates sustainability in several ways, including water conservation, smart lighting, open design, sustainable materials and innovative transport solutions.

## Social Sustainability

The review also highlights the company's range of social sustainability initiatives, including SKM's programs with various community groups to make a positive and enduring impact.

The activities featured in the report include a project that provides fresh water for Balinese villages, SKM's close relationship with Beacon Foundation and the innovative Something Concrete project. Using pre-cast concrete technology, the Something Concrete project tackles the dual issues of indigenous youth unemployment and a lack of public housing in Western Australia's East Kimberley region.

To view SKM's interactive 2007-08 Annual Review, visit: <http://www.skmconsulting.com/2007-08AnnualReview/>



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Leighton Contractors continues to grow based on its quality of people, commitment to excellence and its successful integration of sustainability into its everyday business and operations. Its strong commitment to the principles of sustainability has seen Leighton Contractors make innovative progress in this field.

## Sustainability highlights in 2008-2009

- The Green Square North Tower project was the first commercial building in Queensland to be awarded a Six Star Rating from the Green Building Council of Australia
- The Green Square South Tower project applied rigorous environmental standards in building construction and created an equally high quality working environment for the building occupiers. It's wide variety of ecologically sustainable initiatives saw the project awarded Engineers Australia's 2008 Queensland Excellence Award for both the Environment and Sustainability categories and the Queensland EPA Award for Sustainability in the Built Environment
- The Bruce Highway Upgrade – Uhlmann Road to Caboolture project trialed and implemented a number of environmental innovations, unique to the industry, improving environmental outcomes and while doing so, received widespread industry recognition winning the 2008 Queensland Master Buildings Innovation in Environmental Management Award

Visit [leightoncontractors.com.au](http://leightoncontractors.com.au)  
to view our sustainability report, Sustain.

# Connell Wagner

## Women In Engineering



Welcome to a new year for Women In Engineering QLD Division. My name is Kristina Schaeffer and I will be your WIE Chair for 2009.

With 2008 well and truly now behind us, we would like to acknowledge the support of our sponsor Connell Wagner. Without their continued support it would not be possible to hold WIE events such as the highly successful Corporate Breakfast held in November with over 200 attendees.

The keynote speaker at the breakfast was Else Shepherd, Chairman of Powerlink Queensland, who drew on her many years in the engineering industry as an electrical engineer and innovator to give a thoroughly enjoyable presentation titled "Challenging Picasso". Else's first love was not electronics but the aesthetics of bridges and architecture and she went on to introduce the audience to the fascinating relationship between beauty and mathematics. Who knew that all it took for an engineer to create works of beauty as seen by the rest of society was a ratio that contained a little number known as phi.

The Brisbane and Townsville based WIE committees are busy preparing a calendar of events for the year ahead, which will include more opportunities for female engineers to present and share their experiences with the engineering community. We will be looking to do this in collaboration with the technical societies as well as with other groups with a shared interest. We will also have a number of networking opportunities, professional development workshops and be assisting with other events such as career days and workshops to promote engineering to the younger generations.

We are also looking at holding a number of sessions during the year dealing with work-life issues, such as career breaks and your rights and responsibilities in the workplace when having a family, issues that are relevant to both men and women. So do not be put off by the name, every man and woman is welcome to attend our events!

Kristina Schaeffer  
WIE Chair 2009

## Student Project Award Winner

Congratulations to Griffith University Bachelor of Engineering and Business graduate Shelly Cook, who has won the 2008 Association of Consulting Engineers' Australia (ACEA) National Award for the best student project.

Engineers Australia Queensland member Shelly, 23, was awarded the Student Project Award for her thesis on developing an integrated project management framework to assist in the quality management of engineering projects. Her research revealed that quality management and assurance tools associated with the consultancy industry had been largely overlooked, especially in the planning and design phase of engineering projects. This provided Shelly with a valuable motive to develop an integrated project management framework which would benefit the industry.

Shelly is now working as a civil engineer for GHD at their Gold Coast office has been involved in many projects including the Pacific Motorway Transit Project- Springwood to Daisy, Gold Coast Highway Upgrade and the Surfers Paradise Traffic Management Scheme- Stage 2. Shelly chose engineering as a career while still at highschool as she always liked, math, physics and design.

## CN Barton Medal 2008

Congratulations to Julie Lovisa, a fourth year Civil and Environmental engineering student at James Cook University, who has taken out the prestigious CN Barton Medal for 2008.

Engineers Australia Queensland member, Julie, won the award presented by JCU's School of Engineering for her thesis entitled Behaviour of Reinforced Sand Foundations.

The CN Barton Medal is awarded each year to the best student thesis across the six disciplines: Mechanical, Electrical and Computer Systems, Chemical and Civil & Environmental.

The student with the best thesis from each discipline is chosen to present their work to a panel of industry experts and is judged on presentation and content.



Julie pictured second from the left with other CN Barton Medal finalists at the Awards.

## Queenslander William Pickering Awarded 2008 Engineering Technologist of the Year Award

Queensland Engineering Technologist William (Bill) Pickering has been declared the 2008 Engineering Technologist of the Year at the Australian Engineering Excellence Awards gala dinner held at the Great Hall of Parliament House in Canberra last November.

The Engineering Technologist of the Year Award is presented to an engineering technologist who has demonstrated competence and significant achievement in community affairs and understanding of the role and purpose of the engineering profession with society and proficiency in the use of communication skills.

Bill is a Technologist Fellow of Engineers Australia and a member of the National Consultative Committee of Engineering Technologists. Bill's career commenced as an apprentice electrical fitter and has developed a long and distinguished career. He has a Bachelor of Technology Engineering with Distinction and became a Chartered Engineering Technologist in 1998. Bill has been a very active member of the community serving as a Justice of the Peace for over 30 years. He has served on numerous hospital and community based boards, was an elected member of the Hinchinbrook Shire Council and continues to commit his time to many community based events and activities.

Bill was awarded the 2008 Queensland Engineering Technologist of the Year Award at the 2008 Hawken Address.



Queensland and National Engineering Technologist of the Year Mr Bill Pickering with 2008 National President Julie Hammer

## EXPRESSION OF INTEREST

The Board of Professional Engineers of Queensland is currently inviting submissions by Registered Professional Engineers (RPEQs) who may be interested in conducting investigations into complaints about Registered engineers on behalf of the Board.

**For enquiries please contact the Registrar of the Board on (07) 3224 6032.**



## Creating Your 'A Team'

### ROBERT WALTERS

The recent ups and downs of the global market have played havoc with the engineering market. Whether you believe this is just a hiccup or will have longer lasting effects, it's never been more important to employ the best people in the market, writes Adam Harris - Manager Mining, Engineering & Operations in Robert Walters' Brisbane office.

Late last year I met with the Global Projects Commercial Manager of a large mining house. As has often been the case recently, the conversation turned to market conditions and which projects would proceed and which would be put on a 'go slow' and staffed accordingly.

Importantly, the manager was looking for key staff, because as he put it "now is when we get our A team". What he meant was as the market slows a little, he's in the perfect position to recruit the best of the best because he has to. He will continue to recruit various project managers and engineers but won't be settling for b-grade candidates. Now more than ever he needs a team that is 100% on the game and making the best possible decisions.

This concept flows through to the various Engineering, EPCM and Contractors that supply this organisation. The manager in question will only use the best of the various suppliers available. Since that meeting I've heard a similar theme repeated throughout the market -everyone is putting the best possible teams together to ensure they are the ones winning the contract and not their competitors.

As an example I was recently engaged to find a very specific and senior design engineer for a global design firm. The manager in question wants the very best candidate for this role as they will be a key member of the team involved in winning tenders. After commencing the assignment, doing the research and approaching a number of prospective candidates I found at least three other similar sized competitor design houses looking for exactly the same role, for exactly the same reason.

2009 will prove to be an interesting year with many challenges for everyone involved in the greater engineering space. Now is more crucial than ever to have the best team of professionals running your business, working innovatively and presenting your tenders. This is a great thing for businesses that have retained the very best people over the past few years and will present a significant challenge for those trying to attract their 'A Team'.

For more information on how to find your A candidates and the current market or sourcing strategies, contact Adam Harris on (07) 3032 2218.

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Dianne can be contacted on:  
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- Map 3D GeoSpatial
- Autodesk 3Ds Max Essentials
- CostX Essentials
- Autodesk Inventor Essentials
- AutoCAD Mechanical Essentials
- AutoCAD Electrical Essentials

## Changes to the Professional Engineers Act (2002)

On 1 July 2008, the Queensland Professional Engineers Act was amended with a series of changes impacting on the provision of professional engineering services in Queensland.

As a professional engineer in Queensland, it is your obligation to be aware of your responsibilities in relation to these changes. You are encouraged to seek the necessary legal advice if you are unsure of how these changes to the Professional Engineers Act (2002) relate to your personal situation.

**Below is a summary of the changes to the Act:**

Engineers Australia and AusIMM were approved as Assessment Entities and will assess the qualifications and competencies of applicants for registration under the Queensland Professional Engineers Act (2002);

Any person carrying out "professional engineering services" must be registered unless they are working under direct supervision of an RPEQ who is responsible for the services. (Refer Part 7, s115, pg 81);

A person carrying out "professional engineering services" must do so in their area of engineering eg. Electrical engineering, unless they are working under direct supervision of an RPEQ who is responsible for the services. (Refer Part 7, s115, pg 81);

The amended Act contains a revised definition of "supervision" as follows: "a person carries out professional engineering services under direct supervision of a registered professional engineer, only if the engineer directs the person in the carrying out of the services and oversees and evaluates the carrying out of the services by the person". The onus is placed on Supervisors to ensure that the "professional engineering services" are conducted in a professional and competent manner. (Refer Part 7, s115, pg 81);

The definition of "Professional Engineering Service" was revised in respect to work undertaken according to a "prescriptive standard". A "prescriptive standard" is a document that states procedures or criteria for carrying out a design, or a construction or production activity, relating to engineering. The amended Act provides that where a professional engineering service involves work carried out in accordance with a prescriptive standard, does not require advanced scientifically based calculations, and that part of the service is not required to be undertaken by a registered person. (Refer Schedule 2, s7, pg 105);

In line with the changes to the Act, The Board of Professional Engineers of Queensland has amended the Code of Practice to make further provision as to what constitutes adequate supervision of professional engineering services. A copy of the Code of Practice can be obtained from the BPEQ website [www.bpeq.qld.gov.au](http://www.bpeq.qld.gov.au)

Over many years there has been some misconception about what the Queensland Professional Engineers Act (2002) covers. The following may assist to clarify this position:

The Act provides for the registration of professional engineers to practise engineering in Queensland.

The Act covers all "professional engineering services" whether or not they are performed for government agencies or private organisations;

Any professional engineering services provided by construction contractors and government agencies are also subject to the provisions of the Act;

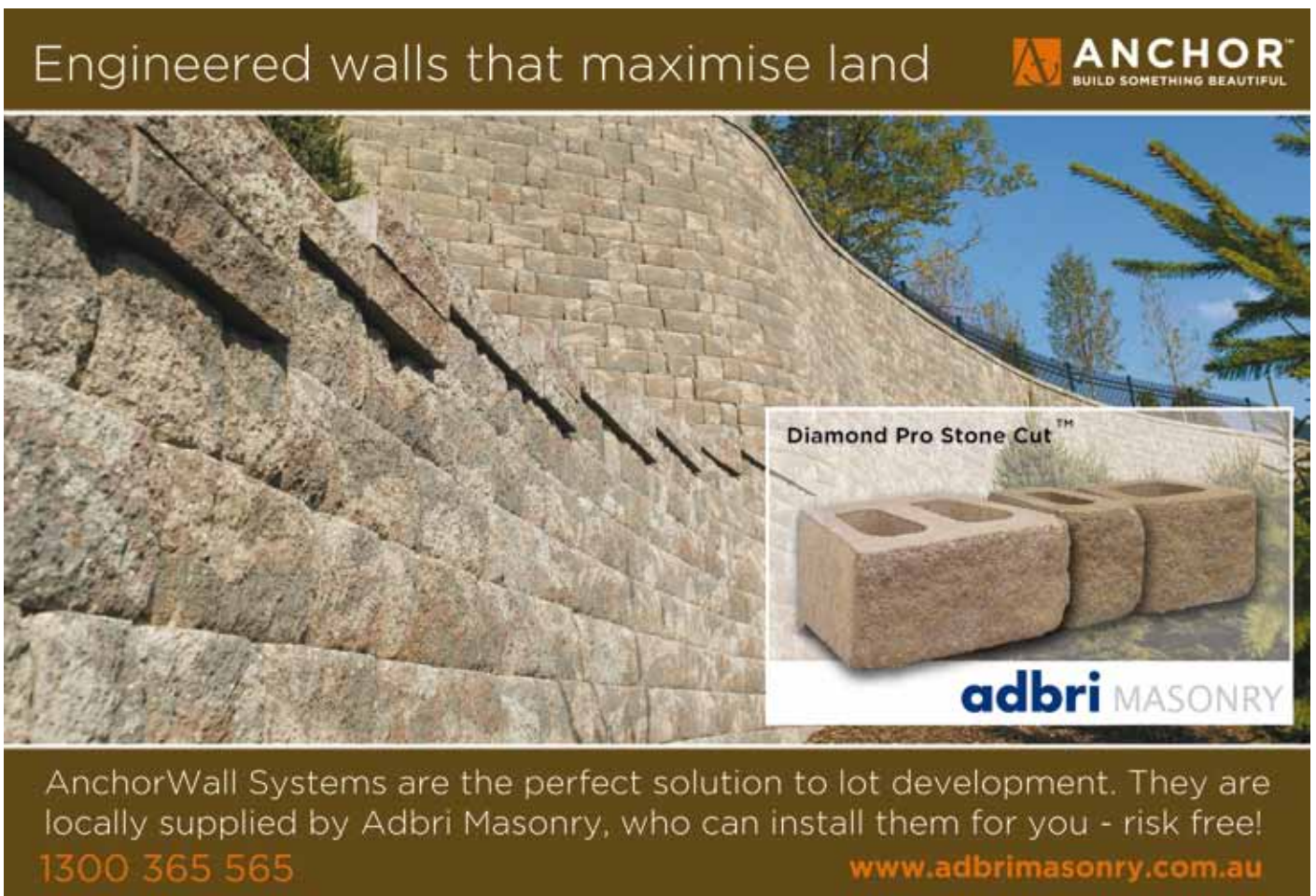
The provision of professional engineering services in the mining sector is covered by the Act;

Engineering companies (or Engineering Units of major Corporations) can no longer be registered;

Registration is personal - the registered professional engineer takes personal responsibility when they declare that they are competent to undertake supervision of an engineering service.

For further information about The Board of Professional Engineers of Queensland or the Professional Engineers Act (2002) please visit the BPEQ website [www.bpeq.qld.gov.au](http://www.bpeq.qld.gov.au)

For further information about undertaking an Assessment of Qualifications and Competencies for registration as a professional engineer in Queensland (RPEQ) please visit [www.engineersaustralia.org.au/quicklinks/registration.cfm](http://www.engineersaustralia.org.au/quicklinks/registration.cfm) or contact the Queensland Division on (07) 3832 3749.



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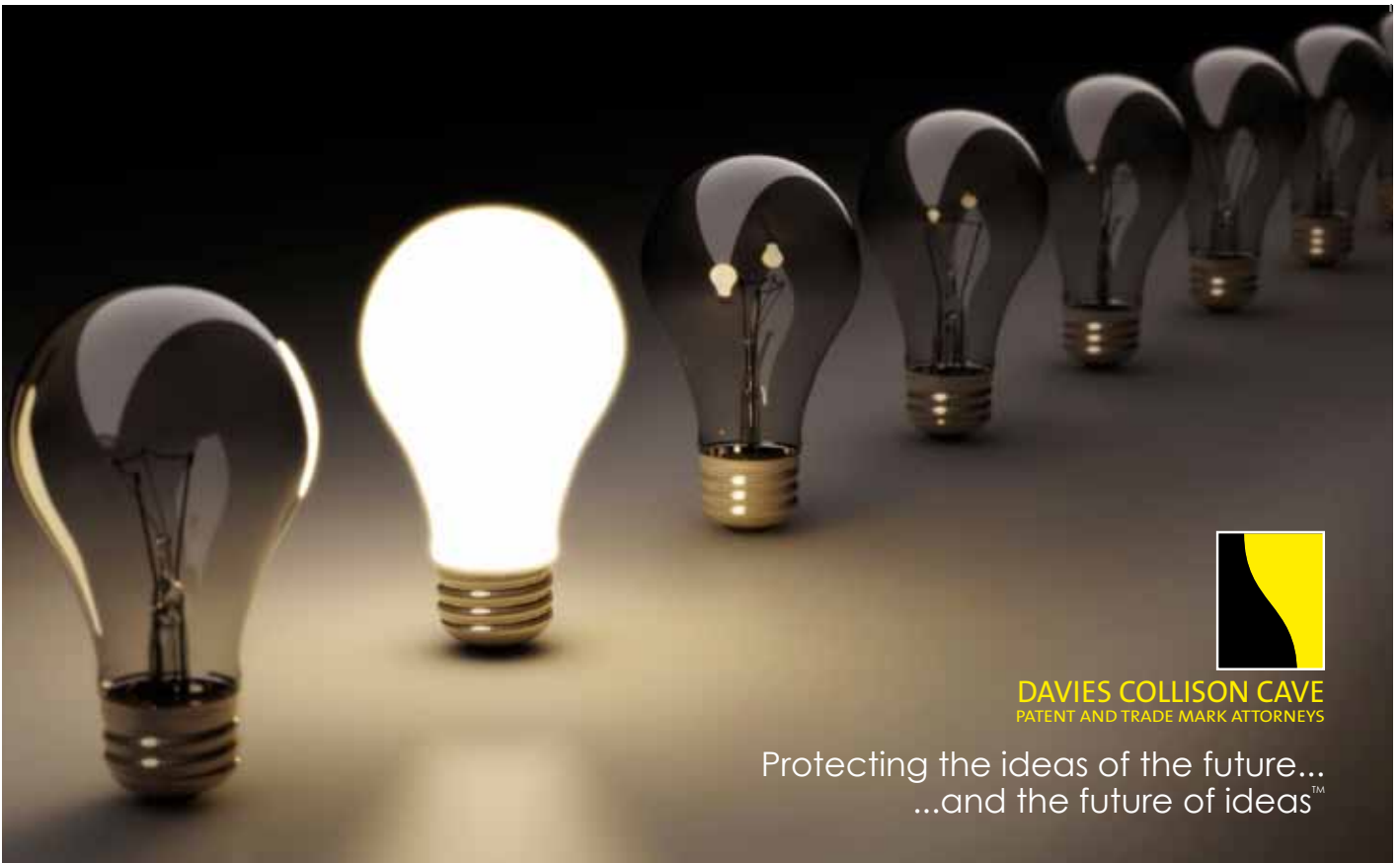
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**It is with sadness that we note the recent passing of the following key engineering figures:**

**Sir Bruce Watson AC, FTSE (1928 - 2008)**

A Queensland born and educated Professional Electrical Engineer, Sir Bruce spent his formative years working in the power supply industry in Tasmania, for the Hydro-electricity Commission, then in Townsville, where he joined MIM's Copper Refineries in 1956. He was appointed MIM chief executive officer in 1981 and chairman in 1983.

Sir Bruce, a notable member of Engineers Australia, was inducted into the Queensland Engineering Hall of Fame in 2004 and was made Honorary Fellow in 2006. He is survived by his wife, Lady June Watson, two daughters, a son and four grandchildren.

**Dr. Clive Charles Wood (1927 - 2008)**

Dr Wood studied and acquired degrees in both Civil Engineering and Science (Geology) from the University of Sydney, and a PhD in soil mechanics in the UK. In 1969, Clive moved to Brisbane to Coffey and Hollingsworth where we worked until setting up his own business in 1978 which ultimately merged with GHD in 1982.

He was a leader in the geotechnical engineering profession and in semi-retirement he enjoyed sharing his experiences with engineering students as a part-time lecturer at the University of Queensland. He is survived by his wife, four children and eight grandchildren.

**Eminent Professor Raymond Leslie Whitmore, AM HonFIEAust CPEng (1920 - 2008)  
Queensland Division President 1982**

Professor Whitmore formed the first engineering heritage panels, initially in Queensland and then nationally in 1976. His guiding hand helped to lay sound foundations for the identification, recording, assessment and conservation programs developed and used by Engineers Australia.

He wrote 39 heritage-related papers, authored six books and edited four more. His research and assessment skills were widely sought by a range of organisations. He was a key member of Engineering Heritage Australia's Plaquing Committee (judging panel) for 18 years. He will be remembered as an honourable scholar and a dedicated professional.

**Dr. Norm Sheridan (1924 - 2008)  
Queensland Division President 1971**

Born in Rockhampton, Norm started his career as an apprentice fitter and turner at the Racecourse Sugar Mill. Some three years later he was invited to join the University of Queensland lecturing and working in the Thermodynamics Laboratory. By 1954 he had successfully completed a Degree in Mechanical Engineering with first class honours and then went on to complete an MSc in Thermodynamics in the UK.

Norm was an active member of Engineers Australia for many years. One who will be remembered by his peers in the highest respect, both as an engineer and academic, an internationally regarded world leader in his field, but most importantly as a man of honour, dignity, and distinction.

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	27	Brisbane	Preparing Scopes of Work & Specifications
MARCH	10	Townsville	Contract Management Fundamentals
	11-12	Townsville	Contract Supervisors & Inspectors Course
	13	Townsville	Preparing Scopes of Work & Specifications
	31-1 Apr	Brisbane	Contract Management for Superintendents
APRIL	2-3	Brisbane	Advanced Contract Administration
MAY	5-6	Brisbane	Contract Supervisors & Inspectors Course
	7-8	Brisbane	Advanced Contract Management for Superintendents
JUNE	9-10	Brisbane	Contract Administration—Works
	11-12	Brisbane	Tender Administration
	16-17	Townsville	Contract Administration-Works
	18	Townsville	Advanced Contract Management

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## Continuing Professional Development & Corporate Events 2009

To view upcoming Engineers Australia Queensland Events please visit:  
[www.qld.engineersaustralia.org.au](http://www.qld.engineersaustralia.org.au)

Date	Topic	Speaker/s	Venue	Host
19 February	EEA Short Course: Negotiation Skills	TBA	TBA	Engineering Education Australia
2 March	EEA & ASME Process Piping Design & Maintenance Master Class	TBA	TBA	Engineering Education Australia
10 March	Towards Sustainable Development in the Minerals Industry – Managing Impacts	Various	Mercure Hotel, Brisbane	ACMER
10 March	EEA Short Course: Contract Management	TBA	TBA	Engineering Education Australia
11 – 12 March	The Fundamentals of Acid and Metalliferous Drainage & GARD Guide Workshop	Various	Mercure Hotel, Brisbane	ACMER
11 March	Structural: Engineering Excel New Dimensions	Mr. Alfred Botros	Hawken Auditorium, Brisbane	Structural Branch
12 – 13 March	2009 Composites Australia Conference and Trade Show	Various	Hyatt Regency, Sanctuary Cove, Gold Coast	Composites Australia and the Composites CRC
12 March	EEA Short Course: Project Management	TBA	TBA	Engineering Education Australia
17 March	EEA Short Course: Creating & Managing Networks for Successful Business Relationships	TBA	TBA	Engineering Education Australia
23 March	EEA Short Course: Mentoring Skills	TBA	TBA	Engineering Education Australia
26 March	EEA Short Course: Writing Winning Technical Documents	TBA	TBA	Engineering Education Australia
14 – 17 April	20 <sup>th</sup> Australian Software Engineering Conference	Various	Courtyard Marriott Surfers Paradise Resort, Gold Cost	ASWEC

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