



ENGINEERS  
AUSTRALIA  
Victoria Division

# ev

engineers victoria

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Launch of the 2010 Victorian  
Infrastructure Report Card

2010 Engineering Expo – March

NEW Online Careers Handbook

High school students  
*Make It So* at NDY

YEA-V's new initiatives  
to support Chartered Status

**MAKE IT SO.**

# ev

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## Division Supporters 2010



Produced by  
Engineers Australia, Victoria Division  
Engineering House  
Level 2, 21 Bedford Street  
North Melbourne VIC 3051  
Ph: 03 9329 8188 Fax: 03 9326 6515  
Email: [afitzpatrick@engineersaustralia.org.au](mailto:afitzpatrick@engineersaustralia.org.au)  
Web: [www.vic.engineersaustralia.org.au](http://www.vic.engineersaustralia.org.au)

All information is correct at time of printing.

Please check the website for the most up-to-date listings of events and programs.

# A message from the State President ...



As your newly appointed State President I am pleased to advise that the 2010 Division Program has commenced with considerable vigour and enthusiasm from our new Division Committee. The

first Division Committee meeting was held on 3rd February and at that meeting newly appointed Division Committee members and former members all contributed to laying the foundations for a busy year ahead. The Division Committee includes several new faces and I am most grateful for members coming forward to add their contribution to the leadership of the Victorian Division.

In this, the Year of Engineering Leadership, it is important for us all to recognise and exalt the important leadership role that we as engineers play in our businesses, industries, institutions, and indeed the wider community, as well as the contribution of engineers in leadership in achieving the standards of living we all enjoy today. Our challenge is to promote that leadership role and ensure for the future that we can lead to *Make It So*.

With regard to the *Make It So* promotion there will be many opportunities for us all to take part in this major national initiative. We can all contribute to ensure that our communities realise the important role that we as engineers undertake to *Make It So*.

During 2010 it is my aspiration that the Victorian Division Committee and all Engineers Australia, Victorian Groups endeavour to engage more fully with our communities and to this end, a Community Engagement program for the Division Committee has been established, and the Committee members will be meeting with industry on a regular basis as part of our yearly program.

The Division Committee has an established portfolio agenda to ensure that principal issues affecting all of our members are considered, and I am pleased to advise that members of the Committee and the various portfolios are as shown in the box (top right).

I would encourage any of our members who have an interest in any of these issues to contact their Division Committee members as outlined to enable your opinions and suggestions on these important subjects to be brought to the Division Committee table.

The Board of Engineering, now under the leadership of John McIntosh, is represented

**Victorian Division Committee Community/ Industry Engagement Program**  
David Eltringham, Nick Phillips and John McIntosh

**Finance**  
Nick Phillips

**Education**  
Lucie Missen, Frank Novaco

**Continuing Professional Knowledge (CPD) and the Body of Knowledge**  
John McIntosh, Lawrence Chew and Tim Plenderleith

**Honours and Recognition**  
Mark Gregory/ Lucie Missen

**Membership Development**  
Norm Tickner and Mark Gregory

**Policy**  
Geoff Hayes and Matthew Jordens

**Engineers Australia's Year Of ...**  
John McIntosh, Geoff Hayes and Tim Steinborner

on Division Committee but the Board of Engineering will continue to pursue the important role of presenting a full program of Continuing Professional Development (CPD) opportunities to ensure that the maximum number of our members are given CPEng status. I again encourage your members to take part in this important role for Engineers Australia.

During this early part of our calendar year the Victoria Division Committee members, together with the Chairs of our Regional Groups, members of the Young Engineers Victoria Branch and the team at the Victoria Division Office were given a full briefing on issues relating to governance, policy formulation, and organisational arrangements for the Division and Engineers Australia. These meetings are of great importance in ensuring that the leaders of our various Division Groups are all incorporated into the overall team, enabling all members to gain maximum benefit from Engineers Australia.

I look forward to 2010 being a year of engagement and continuation of the major progress that our Victorian Division has made in the past years under the direction of our former Division Chairpersons and our most professional and capable Division Office staff.

In this year of Engineering leadership let us all *Make It So*.

**David Eltringham FIEAust CPEng  
State President  
[vicpresident@engineersaustralia.org.au](mailto:vicpresident@engineersaustralia.org.au)**

## MAKE IT SO I CAN MAKE MY OWN REAL BIKE OR CAR WITH BLOCKS

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](http://Makeitso.org.au), join our campaign, and Make it so.



# Launch of the Infrastructure Report Card



Engineers Australia has been drawing attention to the state of Australia's infrastructure for many years through our Infrastructure Report Cards.

The first, in 2000, was a basic Report Card on the nation's infrastructure. It was followed with a more extensive Australian Infrastructure Report Card in 2001.

We then embarked on detailed state-by-state assessments. The New South Wales and Queensland Infrastructure Report Cards were published in 2003 and 2004, and in 2005, the remaining State and Territory report cards were completed.

The State and Territory results were used to compile the Australian Infrastructure Report Card, which was launched at the National Press Club in September 2005.

The reports provide a strategic overview for government planning, and are benchmarks for the business sector and the community in judging the implications of neglecting infrastructure priorities.

We have now begun the process for Report Cards for 2010, with the first of the 2010 Reports launched in Melbourne on 3rd March.

All other State and Territory report cards will be released over the next few months culminating in the Australian Infrastructure Report Card release in Engineering Week in the first week of August.

Each Report Card contains the following chapters and sections:

Transport	Rail / Roads-National, State and Local / Ports / Airports
Energy	Electricity / Gas
Water	Potable Water / Stormwater / Wastewater / Irrigation
Telecommunications	

The Report Card's grading scheme is predicated on the principle that infrastructure policy, regulation, planning, provision, operation and maintenance are optimal if the infrastructure meets the current and future needs of the community, economy and environment in terms of sustainability, effectiveness, efficiency and equity. Gratings are based on the following scale:

Letter grade	Designation	Definition
A	Very good	Infrastructure is fit for its current and future purposes*
B	Good	Minor changes required to enable infrastructure to be fit for its current and future purposes
C	Adequate	Major changes required to enable infrastructure to be fit for its current and future purposes
D	Poor	Critical changes required to enable infrastructure to be fit for its current and future purposes
F	Inadequate	Inadequate for current and future purposes

Table 1: Grading scale. \* Defined as infrastructure meeting the current and future needs of the community, economy and environment in terms of sustainability, effectiveness, efficiency and equity.

We hope to raise the awareness of politicians, media, business and the public that infrastructure underpins the community's quality of life and that inadequate infrastructure impedes economic and social growth, and reduces environmental and societal sustainability. As well, we will be seeking to generate debate on the adequacy

of infrastructure (which includes condition, distribution, funding and timing) required to meet community needs.

**Tim Gosbell**  
**Chair, Infrastructure Report Card**  
**Committee, Victoria Division**

## The 2010 Infrastructure Report Card for Victoria

Infrastructure type	Victoria 2010	Victoria 2005	National 2005	National 2001
Roads overall	C+	Not rated	C	Not rated
National roads	C+	C	C+	C
State roads	C+	C-	C	C-
Local roads	C-	C-	C-	D
Rail	D	C- Overall D Freight	C-	D-
Ports	C+	C	C+	B
Airports	B	Not rated	B	B
Potable water	C	B Metropolitan B- Non-metropolitan	B-	C
Wastewater	B-	B Metropolitan B- Non-metropolitan	C+	C-
Stormwater	C-	C-	C-	D
Irrigation	C-	D	C-	D-
Electricity	C-	C	C+	B-
Gas	C	C	C+	C
Telecommunications	C	Not rated	Not rated	Not rated

To download a copy of the 2010 Victorian division Report Card and listen to a support of the key findings visit <http://www.engineersaustralia.org.au/ircvic>

## Spotlight on – Fire Safety Engineering



Fire Safety Engineering, believe it or not, is actually another engineering discipline. It is multidisciplinary, having substantial relationships with building services, mechanical, electrical, electronics,

chemical, structural and civil engineering, and embraces an understanding of human behaviour, regulations, codes and standards. Although the community is more fire safety conscious as a result of Black Saturday (and its recent anniversary), Fire Safety Engineers have been around for over 30 years.

So, what does a Fire Safety Engineer (FSE) do and when do you need one? FSE assist with the design of fire protection for all structures: various

buildings, silos, rockets, mines, army tanks, airplanes, trains, ships, tunnels, bridges and the like. The majority of FSEs deal principally with buildings. When the building designer proposes an alternative fire safety solution to that of the Building Code of Australia or when the relevant building surveyor decides that the proposed fire safety solution requires independent engineering review, you need a FSE. The Building Commission may also dictate when you need a FSE, for example, in working with private bushfire shelters.

The Society of Fire Safety (SFS) is a technical society of Engineers Australia that draws together individuals who are actively engaged in fire safety, to provide a national focus to the practice of fire safety engineering to reduce risk to life, property and environmental damage. There are chapters in every state of Australia and this year

the SFS will be participating in the following activities:

- the Year of Engineering Leadership 2010;
- Australian Standard draft reviews, eg. Private Bushfire Shelters;
- Having state chapter meetings, seminars and events to assist in knowledge sharing;
- and more!

For more information on FSE or to keep in touch with what is happening in fire regulation reform/development, building controls, fire research and more, contact the Society of Fire Safety by email [info@sfs.au.com](mailto:info@sfs.au.com) or check out the website <http://www.sfs.au.com>.

**Elissa Fazio MIEAust**  
**National President, Society of Fire Safety**

### Engineering for Defence

Engineers Australia's National Council has approved a new policy on engineering in the Australian Defence Force. *"Technology permeates all elements of the ADF, including its materiel, doctrine and tactics. It enables the creation of forces that are sustainable, networked and deployable, that are adaptable over their in-service life, and that excel at joint and coalition operations,"* the policy says.

*"However, technology itself cannot achieve this capability and responsiveness; it is the people, knowledge, processes and systems that have shaped the development, selection, integration and operation of technology for the ADF's purposes."*

Engineers Australia recommends that the federal government, through the ADF and the Department of Defence, *"should recognise that the strength of the ADF is achieved, in significant part, by technological capability, and that the ADF and supporting industry engineering capability is central to the achievement and maintenance of this overall technological capability."*

The full policy statement including all recommendations can be viewed under Advocacy at [www.engineersaustralia.org.au](http://www.engineersaustralia.org.au).

### Call for National Registration of Profession

Last November Engineers Australia's National Council approved a new policy on regulation of the engineering profession. The policy calls on state and territory governments to institute nationally consistent registration systems. The Council believes that the registration system should:

- be coregulatory, that is, having statutory bodies and professional associations such as Engineers Australia undertaking various roles.
- recognise chartered status and registration on the National Engineering Registers.
- be underpinned by competency assessments.
- identify engineering practitioners by broad engineering disciplines or specialties.
- have a requirement for continuing professional development for continued registration.
- include all professional engineers, engineering technologists and engineering associates who are responsible for the approval or certification of designs, specifications, systems or their implementation.

The policy statement can be viewed under Advocacy at [www.engineersaustralia.org.au](http://www.engineersaustralia.org.au). A more detailed article on the policy appeared in the February issue of Engineers Australia magazine.

### Review of the code of ethics

Engineers Australia has recently commenced a review of its Code of Ethics under the guidance of its Commissioner for Ethics and Discipline, Rolfe Hartley FIEAust CPEng Eng Exec. The last review was undertaken 10 years ago.

A driving force in the conduct of the review is a recognition that the engineering and social environments have changed in the intervening period since the last review. The key objectives of the review being undertaken by Engineers Australia will be to produce a Code of Ethics:

- comprising a simpler structure and a style more accessible to and easily understood by members, students, consumers and external stakeholders
- with better links to the demonstration of ethics competencies in chartered/registration assessments
- better reflecting contemporary engineering practice applicable to collective professional conduct, as well as to individual ethical decision-making; and which

- provide a more effective basis for disciplinary action.

A discussion draft has been developed as the basis for consultation with members and key stakeholders. We encourage all Victoria Division members to contribute to this important discussion.

To view and comment on the draft proposed Code of Ethics visit <http://www.engineersaustralia.org.au/ethics/>

## MAY 2010 LAUNCH

## ENGINEERS AUSTRALIA RECRUITMENT SERVICE



In the first half of 2010 Engineers Australia will be launching the Engineers Australia Recruitment Service, a hybrid recruitment service for the engineering profession. Semi automated with online access for both employers and applicants the service will be supported by a team of dedicated, expert consultants.

According to Engineers Australia's Director, Communication and Marketing, the new service will not only provide a cost competitive and industry driven recruitment service but it will also importantly support the recently released 2010-2015 Strategic Plan with an emphasis on career development, Chartered Status and continuing professional development.

To find out more about this new service visit [www.engineersaustralia.org.au/recruitment](http://www.engineersaustralia.org.au/recruitment) and sign up for regular updates and information prior to launch.

# Accelerate your Development – Vic CELM Mentoring Service

Are you a member of Engineers Australia and, as such, a member of the engineering team who would like to enhance your performance and success?

OR



Do you know a member of the engineering team who is looking for assistance solving a business or personal challenge?

You can use the Vic CELM Mentoring Service to accelerate your development.

Whether you are a professional engineer, engineering technologist or engineering officer pursuing

- A technical specialist career
- A design or project career, or
- A management or business career

the VicCELM Mentoring Service is available to you.

Coaching and mentoring in any of the areas of management, leadership, people skills or business skills can provide valuable enhancement to the

capabilities and toolkit of a successful engineer.

The Vic CELM Mentoring Service provides a list of coaches and mentors who have been selected for their diverse backgrounds and range of experience, their different approaches and their breadth of business exposure.

If you would like to know more please visit [www.viccelm.org.au](http://www.viccelm.org.au) or call the Victoria Division Office on 03 9329 8188 and we can put you in touch with someone from the VicCELM Team.



**ENGINEERS  
AUSTRALIA**

Centre for Engineering  
Leadership and Management

## New Chair to the Overseas Qualified Engineers Group



Janos Baranyai has been appointed as the new Chair of OSQE.

An overseas qualified engineer himself, Janos is the National Director of Global Engineering Group Meinhardt.

He plans to bring a set of new ideas to the current operation of the group to widen its appeal and relevance.

*"Our vision is that all Overseas Qualified Engineers entering Victoria are properly informed about the conditions, opportunities and requirements, supported in finding employment and assisted and encouraged to further develop their skills and expertise,"* Mr. Baranyai said.

The Group is in the process of finalising its Committee and will move into full operation in March.

The Group plans to engage more directly with

government, industry and tertiary institutions in order to assist and facilitate a strategic approach.

*"We also need and encourage a close interaction with other groups within Engineers Australia and invite and welcome members to join and contribute to the important and very relevant topic of skilled migrant engineers in Victoria,"* Mr Baranyai summed up.

## Engineers Australia membership

As a member of Engineers Australia, you have access to a wide range of offerings and extensive services that centre around your needs.

Have you heard about our Division's 10 most talked about benefits?

As a member you are entitled to a diverse range of offerings including:

- Professional Recognition
- Continuing Professional Development (CPD)
- Platforms to Growing your Network
- Engineering Colleges, Societies and Groups
- Engineering Employment Handbooks
- Careers Services
- Volunteering Opportunities
- Member Benefits Offers
- Newscan
- Journals / Publications / Online Library

Engineers Australia, Victoria Division encourages you to learn more about your membership by participating in one of our regular informative live membership webinars.

To register your interest please contact Noël Dos Santos:  
Email: [ndossantos@engineersaustralia.org.au](mailto:ndossantos@engineersaustralia.org.au) or  
Phone: 03 9321 1726.

## PROFESSIONAL & BUSINESS ENGLISH



RMIT English Worldwide will deliver six English language workshops at Engineers Australia.

### Workshop topics:

- **Australian Workplace Culture:**  
Expectations & Idiomatic Language /Wednesday 12th May/
- **Pronunciation & Voice:**  
Focus your listeners on content not accent /Wednesday 26th May/
- **Oral presentation Skills:**  
How to deliver a winning presentation /Wednesday 9th June/
- **Negotiating In the Workplace -**  
Getting the tone & language right /Wednesday 23rd June/
- **Business Writing -**  
The language & structure of reports /Wednesday 7th July/
- **The Language of Interviews -**  
How to 'sell' yourself /Wednesday 21st July/

Each two hour workshop will be \$65 per person. Enroll in all six workshops and receive a \$65 discount.

### Interested?

**Step 1** Enroll by downloading our registration form at:  
<http://www.rmitenglishworldwide.com/engineersaustralia.html>  
or [www.engineersaustralia.org.au/victoria/oqe](http://www.engineersaustralia.org.au/victoria/oqe)

**Step 2** Please email your completed forms to [business.english@rmit.edu.au](mailto:business.english@rmit.edu.au)  
Or fax them to 9925 8134

p. 9657 5810 e. [business.english@rmit.edu.au](mailto:business.english@rmit.edu.au)

# Victoria Division continues to promote engineering as a career...

## NDY offers the first Engineering Students @ Work program in Australia: – Green Building Design – How Low Can You Go?

Year 10 and 11 students are gaining an understanding of engineering through ENGINEERING STUDENTS @ WORK.

This program:

- provides a realistic engineering experience for teams of secondary students;
- gives students a chance to learn about the diversity & vitality of engineering;
- allows students to work with professional engineers;
- promotes experiential learning;
- encourages understanding and the adoption of sustainable engineering design solutions.

The program was launched by Akorn Educational Services in partnership with Norman Disney & Young (NDY) and Santa Maria College with support from the Catholic Education Office-Melbourne in early December.

Five students in Years 10 and 11 from Santa Maria College, Maria Wu, Nhung Tran and Anne Aggarwal (Year 10) and Sneha Bhattachan and Salome Hallock (Year 11) participated in the first Akorn Engineering Students @ Work program

hosted by NDY for five days. They were given a design brief to develop concepts for an energy efficient green office building.

According to Sam Aloï, Director of NDY, "You [the students] have delivered a building – a project in accordance with a client brief with innovation and with great success. You've learned about energy, emissions, recycling of materials, transport and innovation and come up with a sustainable solution".

After watching the student presentation, Glenda Graham, Executive Director, Engineers Australia, Victoria Division said that they support this initiative and the opportunities it provides.

"I've never learned so much in one week – not just about engineering, but working together as a team, learning and using organisational skills – I would definitely do it again!" Nhung Tran, student participant.



Georgene Bridgeman from Akorn Educational Services and Peter Koulos from NDY with participants in the program.

Several schools have been asking for this type of program in Engineering and Georgene Bridgeman, CEO of Akorn is hopeful that after the huge success of this program other organisations will want to host future groups.

For information about how your organisation can host an Engineering Students@Work program, please contact Georgene on 0412 339 553 or email georgene.b@AKORN.com.au

## Big demand for speakers for the Engineers in Schools Program – discover engineering

As part of the Year of Engineering Leadership, the Victoria Division are looking for dedicated and passionate engineers to speak to secondary schools and to lead the way in promoting engineering as a life-long career to students.

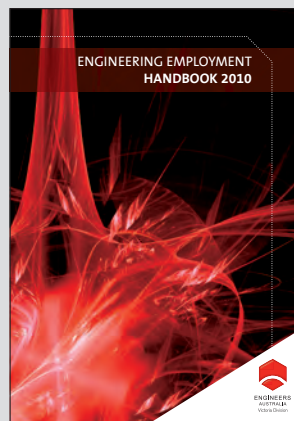
We have received a huge response from schools all across Victoria, requesting speakers from all engineering disciplines.

If you think you have what it takes to be a part of this great initiative, visit [www.engineersaustralia.org.au/divisions/victoria-division](http://www.engineersaustralia.org.au/divisions/victoria-division) and select School Programs for more information on how to register as a speaker.



Major Brett Nelson, MIEAust, speaking to students from St Josephs College, Echuca.

## New 2010 engineering employment handbook



FREE Opportunity to promote your company as an employer of choice!

Engineers Australia, Victoria Division is currently preparing the 2010 edition of the highly sought after Engineering Employment Handbook. This is an ideal opportunity for your company to raise its corporate profile and make contact with over 86,000 engineers by securing a FREE listing in the publication.

To ensure your company does not miss out on this free marketing opportunity, secure your listing by contacting Noël Dos Santos by phone (03) 9321 1726 or email [ndossantos@engineersaustralia.org.au](mailto:ndossantos@engineersaustralia.org.au).



# discover engineering

ENGINEERS IN SCHOOLS PROGRAM

# 2010 ENGINEERING EXPO

*A showcase of how engineers make it so.*



ENGINEERS  
AUSTRALIA  
Victoria Division

Engineers Australia, Victoria Division invites you to attend the free Engineering Expo to be held on Thursday 25 March 2010 at Etihad Stadium, Melbourne, 2-7pm.

This event will provide you access to;

- 60+ Exhibitors
- FREE Seminars
- Recruitment Opportunities
- Engineering Industry Insight
- Career and Professional Development Advice
- Updates on Engineering Projects
- Leadership Information
- Knowledge on Engineering Capability

Register Now  
[www.engineeringexpo.org.au](http://www.engineeringexpo.org.au)

Enquiries

Noël Dos Santos, Manager - Membership Marketing, Engineers Australia, Victoria Division  
Level 2 / 21 Bedford Street, North Melbourne, Victoria, Australia 3051 Tel +61 3 9321 1726



Event Sponsors

EEA

Engineering Education Australia

## Speaker Program at the March 2010 Engineering Expo

Engineers Australia has organised a major speaker program for the 25 March 2010 Engineering Expo at Etihad Stadium

Time	Event	Speaker	Venue
2.00pm	2010 Engineering Expo Opening	-	Etihad Stadium
2.30pm	How to Win that Engineering Job	Jenny O'Donovan, National Manager Careers, Engineers Australia	Etihad Stadium
2.30pm	Goulburn Murray Region – A Land of Opportunity	-	Etihad Stadium
2.30pm	Stand Out from the Crowd – Chartered Status and Engineers Australia's Professional Development Program	Rowan Crosbie-Goold, Industry Manager – VIC/TAS, Engineers Australia	Etihad Stadium
3.30pm	The Importance of Assessing your Overseas Engineering Qualifications	Ron Badger, National Assessor, Engineers Australia	Etihad Stadium
3.30pm	An Insight into 45 years of Product Design and Development	Malcolm Peck, Managing Director, The Carnot Group – Engineering Solutions	Etihad Stadium
3.30pm	40,000 km, 25 Cities, 1 Warship... An Engineer's Life in the ADF	LEUT Stephen Miller, Defence Force Recruiting	Etihad Stadium
4.30pm	Resumes That Get Read	Jenny O'Donovan, National Manager Careers, Engineers Australia	Etihad Stadium
4.30pm	Melbourne's Rectangular Stadium – Your chance to hear more	Peter Bowtell, Principal, ARUP	Etihad Stadium
4.30pm	Launching your Engineering Career – How to Identify Opportunities and Develop your Leadership Potential.	Alesha Printz, Project Manager Comdain Infrastructure & 2009 Victorian Young Professional of the Year Winner	Etihad Stadium
5.30pm	Professional Year in Engineering	Ann Ellis, General Manager, Engineering Education Australia	Etihad Stadium
5.30pm	International Speaker Presentation: Smart Grid Technology Leadership	Bob Gilligan, Vice President, Transmission & Distribution (T&D), GE Energy	Etihad Stadium
5.30pm	Student Perspectives on University Life and Studying Engineering	Mathew Lavric, Design and Release Engineer, GM Holden Ltd & Carla Zampaglione, Final Year Student, Swinburne University of Technology	Etihad Stadium
6.30pm	Interview Skills – What You Need to Know	Bob Nagle	Etihad Stadium
6.30pm	National Engineering Excellence Top Award Winner Presentation: The Three Delta Towns Water Supply and Sanitation Project	Dr Martin O'Dell, Water Sector Manager IDA, GHD	Etihad Stadium
6.30pm	Getting the Job Done – Leadership Opportunities For The Future	Mike Percy, Managing Director, ideas*	Etihad Stadium

For a summary of all these sessions visit [www.engineeringexpo.org.au](http://www.engineeringexpo.org.au)

# Mature Experienced Engineers Pathway to Chartered Status

... a personal account.

I recently attained my Chartered Professional Engineering Status with Engineers Australia. Initially I expected that attaining my Chartered Status would be a very difficult and time consuming process. With 15 years of engineering experience I expected that completing a Full Engineering Practice Report was going to be hard. I expected it to be even more difficult being located overseas in Houston, Texas.

However, I am happy to report that attaining my Chartered Status was not nearly as difficult and time consuming as first thought. The main reasons were the availability of the Mature Experienced Engineers Pathway to Chartered Status and the support and guidance of the staff at Engineers Australia.

By following the Mature Experienced Pathway I was able to demonstrate my competency units and elements with a smaller number of less comprehensive career episode reports as opposed to the Full Engineering Practice Report. In addition, the support and guidance of the staff at Engineers Australia helped to make the whole process a lot less daunting.

The process included developing a detailed resume of my experience and the identification of the key competency units that I should be demonstrating in my Statement of Experience (SoE)/Career Episode

Reports (CER). The advice I received helped me to understand the level of detail that Engineers Australia required for the SoE/CERs. Once I developed my first CER the remaining CERs were relatively easy to generate. Having completed my SoE as a number of CERs, the remaining items to be completed were the Continued Professional Development (CPD) activity statement, application form and attending my Professional Interview during a visit to Australia.

The whole process from start to finish took little more than two months and was completed while working full time. The tyranny of distance was not such a challenge with email access and the responsiveness of Engineers Australia.

In summary, I would encourage other mature engineers to talk to the team at Engineers Australia about the Mature Experience Engineers Pathway to Chartered Status. I would also add that for Australian Engineers working in the USA, in my experience the Chartered Status, whilst not fully recognised at the moment, is important to your Professional Engineering status, and the chartered process can be completed remotely without too much extra complication.

**Andrew Kilner MIEAust CPEng  
AMOG Consulting Inc.**



## Recent PDP signings

### Citiwide



Citywide signed a PDP Agreement for five years with Engineers Australia on November 24th, 2009. The Agreement was signed by Glenda Graham, Engineers Australia Victorian Division Executive Director and Michael North Citywide Divisional Manager, Infrastructure Business, in front of Citywide PDP participants embarking on the program.

### BMD



BMD Constructions has renewed its commitment to professional development of its engineers by renewing its PDP Agreement with Engineers Australia for a further five years. The company has committed more strongly by expanding the scope of the Agreement to a national level. The Agreement was signed in Brisbane on February 24th.

### John Holland



John Holland Group has renewed its commitment to the Professional Development Program with Engineers Australia by signing a national Agreement on February 10th 2010. The Agreement was signed in Queensland and endures for a period of five years.

### Halcrow



Halcrow has renewed its PDP Agreement with Engineers Australia for a further five years. The Agreement was signed by Malcolm Chappell, Director, Tunnels, Mining and Civil and National Operations Director, Halcrow and Glenda Graham, Executive Director, Engineers Australia Victoria Division in January 2010. Halcrow is looking forward to boosting support of the program as part of their company-wide commitment to professional development for its staff.

### Winward Structures



Winward Structures has committed to a further five years as a PDP partner with the renewal of its Agreement with Engineers Australia on February 12th 2010. Tom Aulsebrook, Director, Winward Structures and Glenda Graham Executive Director, Engineers Australia, Victorian Division signed the Agreement. Tom recognised the program as an integral part of the company's need to support its engineers to attain Chartered Status and become RPEQ registered which is now a requirement to practice engineering in Queensland.

# The National Professional Engineers Register

The National Professional Engineers Register (NPER), the National Engineering Technologists Register (NETR) and the National Engineering Associates Register (NEAR) are administered to safeguard the community at no cost to government. Engineers Australia administers the three national engineering registers with input from the National Engineering Registration Board to ensure that the registers operate in the public interest.

All registered engineering practitioners observe a common Code of Ethics, undertaking to accept responsibility for outcomes only within their area of competence and to specifically commit to keeping up-to-date through continuing professional development to sustain their engagement in delivering engineering services. They deliver engineering outcomes that minimise adverse social, economic and environmental consequences, with due regard for the safety, health and welfare of the community.

For consumers, determining who is a qualified engineering practitioner, particularly if it is an infrequent purchase, can be costly and difficult. A registration system aids the market by providing information to

consumers on the education and experience levels of engineering practitioners. This enables consumers to make decisions that are more informed and, in particular, reduces the tendency for them to choose services based on price alone. A requirement for engineering services to be completed by an appropriately qualified and competent engineering practitioner selected from a credible register reduces risks associated with the appointment.

Public safety is assured when only competent practitioners are registered and provide engineering services in critical areas. Registered practitioners will be engaged to provide services in such areas only if stipulated by regulation or demanded by the market.

A registration system that distinguishes areas of engineering service, and lists registered practitioners in those areas, provides a ready and reliable means to confirm a practitioner's competence. Registration enables government, industry and individual consumers to engage the appropriate practitioner or team to perform the required engineering services.

*Continued on page 11*

# YEA-V Supporting Chartered Status

Pouring rain, dramatic lightning and frustrating traffic jams made getting to the first Chartered Status Ceremony in Melbourne, on Thursday 11 February 2010, somewhat harder than many had anticipated. Nonetheless, the Chartered Status Ceremony was a success. The ceremony celebrated the achievement of those who had recently obtained Chartered Status in Victoria.

This is a new initiative driven by Young Engineers Australia Victoria and supported by Young Engineers Australia National. Vanessa Hall MIEAust CPEng gave an impressive speech on her path to becoming a Chartered Engineer. As a graduate engineer, she viewed becoming Chartered as a company objective rather than a personal goal. Later in her career her thoughts changed. The advantages of becoming Chartered, such as gaining a range of work experience and promoting Continuing Professional Development, were also highlighted.

David Eltringham FIEAust CPEng, State President and Lyal Douglas MIEAust CPEng, National Assessor, presented certificates of Chartered Status achievement to those who had reached this milestone.

Congratulations to the following members whose achievements were celebrated at the ceremony:

Mr Benjamin Furness MIEAust CPEng,  
Melbourne Water

Mr Madhav Anant Pradhan,  
Kone Building Doors

Mr Gavin Chater MIEAust CPEng,  
AirServices Australia

Squadron Leader Satya Tanner MIEAust CPEng,  
Royal Australian Air Force

Miss Vanessa Hall MIEAust CPEng,  
Worley Parsons

Mr Philip Barner FIEAust CPEng,  
Seal Solutions Pty Ltd

Although the career episode reports and interviews are over for those who have become Chartered Engineers, it is now time to maintain the reputation of the status. There are still many young engineers who need our encouragement, guidance and support to assist them in also reaching this significant career milestone.



Caption

## Congratulations to Chartered members

Engineers Australia, Victoria Division would like to congratulate the following members who have recently gained Chartered Status:

Mr	Detdexa	Arounsavat	MIEAust CPEng
Mr	Tshun	Chan	MIEAust CPEng
Miss	Stephanie	Clarke	MIEAust CPEng
Mr	John	Elcheikh	MIEAust CPEng
Dr	Sonja	Jenkinson	MIEAust CPEng
Dr	Mark	Kegel	MIEAust CPEng
Mr	Jacob	Kelland	MIEAust CPEng
Mr	Robert	Kilgour	MIEAust CPEng
Mr	Joseph	Lynch	MIEAust CPEng
Mr	Brendan	McGrath	MIEAust CPEng
Mr	Richard	McKenna	MIEAust CPEng
Mr	Nabil	Mitry	MIEAust CPEng
Mr	Julian	O'Shea	MIEAust CPEng
Mr	Huy Binh	Pham	MIEAust CPEng
Mr	Darren	Raeck	MIEAust CPEng
Mr	Christopher	Rozycki	MIEAust CPEng
Mr	Asim	Siddiqi	MIEAust CPEng
Ms	Penelope	Somers	MIEAust CPEng

## Congratulations to EngExec members

Engineers Australia, Victoria Division would like to congratulate the following members who have recently gained EngExec Status:

Mr	Peter	Godfrey	FIEAust CPEng EngExec
Mr	Michael	Malouf	FIEAust CPEng EngExec
Prof	Iven	Mareels	FIEAust CPEng EngExec
Mr	Richard	Rhimes	FIEAust CPEng EngExec

## Congratulations to Fellow members

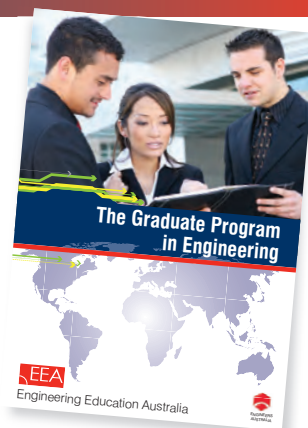
Engineers Australia, Victoria Division would also like to congratulate the following members who have recently been made Fellows of Engineers Australia:

Mr	Frank	Rapattoni	FIEAust CPEng
Mr	Tim	Gibney	FIEAust CPEng
Mr	Paul	Wadeson	FIEAust
Mr	Richard	McGarrigle	FIET FIEAust
Mr	Michael	Yarovsky	FIEAust CPEng
Mr	Andrew	Martin	FIEAust CPEng
Dr	Sunil	Perera	FIEAust CPEng
Mr	Peter	Everist	FIEAust CPEng
Dr	Mark	Gregory	FIEAust
Mr	David	Yeouart	FIEAust

## The Graduate Program in Engineering

*The Graduate Program in Engineering is a unique delivery partnership that works hand-in-hand with an organisation, its managers and its graduates to develop graduate engineers into professional engineers.*

**If you are an engineer with between 1-4 years experience you will want to find out more about this program at [www.eeaut.com.au](http://www.eeaut.com.au)**



Please visit us at [www.eeaut.com.au](http://www.eeaut.com.au) or email us on [graduateprogram@eeaut.com.au](mailto:graduateprogram@eeaut.com.au) for more information about The Graduate Program in Engineering.

**EEA**  
Engineering Education Australia



## 2010 Year of Engineering Leadership

It's time to recognise our leaders within the Engineering Team

The Year of Engineering Leadership commenced as a Centre for Engineering Leadership and Management (CELM) initiative. The aim of the year is to recognise and celebrate leaders within the engineering team and demonstrate how the engineering team are ambassadors in shaping the future.

The four key messages Engineers Australia will be promoting during the Year of Engineering Leadership include:

1. Leaders of the engineering team provide inspiring, sustainable and innovative solutions to society's challenges.
2. The community identifies engineering as the desired vocation for



those who are or want to become leaders of the future

3. Engineers Australia is an organisation that fosters, supports and develops engineering leaders throughout all stages of their careers.
4. Leaders of the engineering team value and are proud to be part of the practice of engineering.

For further information about the Year and to find out about upcoming Events visit: [www.engineersaustralia.org.au/leadership](http://www.engineersaustralia.org.au/leadership)

### Be part of the Australian Leadership Survey!

What are the attributes and behaviours of a good engineering leader? Help Engineers Australia find out.

Total Leader and Coach Solutions (TLC Solutions) and Engineers Australia have joined forces to explore the attributes and behaviours expected of a 'Great Leader' in the context of Australian Engineering organisations. The aim of this research is to identify the Top 10 attributes and behaviours of good engineering leaders. Given that 2010 is the Year of Engineering Leadership, this research is highly relevant and will throw significant light onto the issue of leadership within engineering.

This is an outstanding opportunity to not only provide research data specific to the engineering profession in relation to leadership development, but also to give engineering organisations around Australia the ability to obtain up-to-date research on what is expected of a leader in an engineering organisation.

The survey will also examine a number of factors, including gender, age, location of primary degree, highest level of qualification, grade of membership and accreditation. This will allow us to examine any differences across groups. It is expected, based on our current research, that there will be a number of differences across gender and age.

The results of the survey will be collated and summarised by mid-March 2010, with the aim of having a completed research report ready for presentation at the Engineering Leadership Conference in May 2010.

To find out more about this research work and to complete the Engineering Leadership Survey visit: [www.engineersaustralia.org.au/leadership](http://www.engineersaustralia.org.au/leadership)

### 2010: Engineering Leadership Conference – REGISTRATIONS ARE NOW OPEN

In the Year of Engineering Leadership, the Centre of Engineering Leadership and Management (CELM) and Young Engineers Australia (YEA) have joined together to present the Engineering Leadership Conference.

The Engineering Leadership Conference will deliver a dynamic and thought-provoking combination of high-profile speakers and challenging presentations appealing to experienced engineering leaders and those transitioning into leadership roles.

Just some of the confirmed speakers include:

- Stuart Glenn, COO, PB International (Parsons Brinckerhoff)
- Dr Cassandra Goldie, Australian Human Rights Commission
- Zimi Meka, CEO, Ausenco
- Dr Chris Roberts, CEO, Cochlear
- Else Shepherd AM, Chair Powerlink Qld
- Ian Shepherd, CEO, GHD
- Bill Wild, COO, Leighton Holdings

Registrations are now open! For further information visit: <http://www.engineeringleadership.org>. The survey will close at the end of March 2010.

## All About You!

### Geoff Hayes FIEAust CPEng



**Engineering Discipline:**  
Mechanical

**Volunteer Involvement:**  
Community involvement is a passion. I have been a Board member on

a number of not-for-profit organisations, including the Municipal Association of Victoria, Mayor for the City of Boroondara, a Councillor for the City of Ballarat and a graduate of the Williamson Community Leadership Programme. I am currently serving as a Victoria Division Committee member and will join National Congress later this year.

**Job Title:** Operations Manager – Engineering Change ANZAC Ship IMS

**Company:** BAE Systems

#### Did you always want to be an engineer?

My Dad was a skilled boilermaker / welder and inspired a love of the practical. My uncle was an engineer with ACI for many years. Their examples led me naturally to a career that could make a practical difference. Engineers make the difference to the world we live in.

#### If you weren't an engineer, what would you be doing?

Nothing even compares. Always an engineer.

#### Name one of the most exciting projects you have worked on:

Gekko Systems mineral processing equipment, a great testament to Australian ingenuity and the inventor Sandy Grey.

#### What prompted you to become a member of EA and what are the main benefits for you?

I joined EA when I was a student and soon after graduation enjoyed the wider networking and interest groups available as a member. With diverse interests ranging from Engineering Heritage to modelling energy efficiency of

buildings there are always resources available and colleagues to debate with.

#### Favourite engineering feat:

Invention of the gas turbine engine and subsequent development in all its forms.

#### What do you enjoy doing in your spare time?

I finished building a SeaRey amphibian aircraft two years ago and now fly it as much as time allows.

#### Dream job:

Space shuttle pilot

#### 3 words to best describe you:

Inventive, persistent, optimistic

#### What makes you laugh?

My children give me much joy and happiness

#### Favourite quote:

"Ask not what your country can do for you – ask what you can do for your country" JFK

#### Favourite movie:

Science fiction has a great attraction and especially when teamed with a bit of archaeology. Stargate is one of many favourites.

# News from the Regions ...

## Goulburn Valley Group Update

The Goulburn Valley Committee would like to wish all members a Happy New Year. As in previous years, the first event of 2010 was a Golf and Bowls evening held at the Mooroopna Golf Club. It was a very social and relaxed evening with a few committed golfers braving the 40°C temperature to tackle the back 9 holes. To cater for the young engineers in the region the Goulburn Valley Group held a networking evening at the races. The evening gave our younger members a chance to get to mingle and get to know some of the more experienced engineers in the area. A great night was had by all.

The Goulburn Valley group has another busy year planned with some of our annual events already confirmed: the AGM is to be held on 5 August at Eastbank with Greg Champion to provide the entertainment for the evening. The group is planning a series of Friday lunch-time presentations, with the first to be on the "Northern Region Sustainable Water Strategy" to be held in March and a presentation on the "Eastlink Project" to be held in April.

## North East Group Update

North East Group concluded 2009 with a successful gathering of 47 attendees at the Christmas Dinner/AGM.

An engaging presentation was given by Mal Styles on the Bushfire Reconstruction efforts and a new committee was formed.

The new North East Group Committee is made up of the following:

Margret Doring (Chair)	Al Heffron
Claire Stock (Secretary)	Richard Noble
David Ridderhof (Treasurer)	Brendan O'Connor
Bernie Dowsley	Matt Sammon
Gary Edwards	Ron Sneddon
Andrew Gehrig	Bob Vanselow.

Thank you to Stephen Onions for his time in his previous role as Chair. The North East Group will continue to meet bi-monthly in 2010. For information on upcoming events, please contact Margret Doring on 03 5729 7668.

## Engineering Heritage Victoria

Engineering Heritage Victoria is planning to continue its popular Guest Speaker Series of meetings in 2010. The first meeting on 18 February was presented by Gary Vines on 'An Update on the National Trust Bridges Survey'.

The next meeting in the series is scheduled for Thursday 15 April. Details of the presenter and subject have yet to be determined. When finalised, notices will be sent to all those on the EHV mailing list ahead of the meeting.

Engineering Heritage Victoria is open to all persons with an interest in engineering and industrial heritage and history and covers all engineering disciplines. Learning about the past and where we have come from in our calling can assist in giving perspective for moving forward and appreciating the big picture.

Email enquiries can be sent to [ehv@engineersaustralia.org.au](mailto:ehv@engineersaustralia.org.au).

## Geelong Group Update

Another successful meeting in Geelong! Forty six people took to the water for a guided tour of the port of Geelong and all its facilities.

The weather was absolutely first-class with blue sky and south-easterly breezes, a glorious sunset and moonlight to finish the evening. The night was highlighted with a running commentary from the Port of Geelong Authority on all the activities and industries along side the water. The City of Geelong was presented in a different light and from a vantage point rarely experienced.

The food was superb aboard the Hygeia Cruise ship and there was a significant opportunity for networking, chatting or just chilling out as the sun went down.

As the sun set we all enjoyed a spectacular view of the city lights, and birds fishing by the light of the cruise boat. All in all a very special and enjoyable evening from the Geelong Regional Group of Engineers Australia.

## Recent developments to ePDP functionality

Professional Development Program participants can now upload their Word or PDF-version Career Episode Reports (CERs) directly to their profile in ePDP prior to submission.

Since all CERs submitted for continuous assessment need to be recorded online before being posted to the participant's national assessor, this upgrade will give participants the option of uploading their document to the

website as an alternative to cutting and pasting text into the narrative box.

The Professional Development Program is the only pathway to gaining Chartered Status which incorporates continuous assessment of individual CERs.

For further information on this development or to register as a participant on the program contact [pdpadmin@engineersaustralia.org.au](mailto:pdpadmin@engineersaustralia.org.au).

## Date for your diary

*'HOT TOPICS' Member Information Breakfast  
Thursday 6 May 2010*

*Hot Topic: Exploring Clean Technology Options*

*To register your interest in receiving an invitation to this event, please email your details to Stacey Rocco on [srocco@engineersaustralia.org.au](mailto:srocco@engineersaustralia.org.au) or phone 9321 1712.*

*Continued from page 8*

Admission to the three registers is not restricted to members of Engineers Australia or any other professional association. However, the registers are currently aligned to occupational categories – Professional Engineers, Engineering Technologists and Engineering Associates.

Registered engineers are normally registered in at least one general area of practice, in which they satisfy the Australian Engineering Competency Standards of their occupational category. The

available general areas of practice are aerospace, biomedical, building services, chemical, civil, electrical, environmental, mechanical, structural, information telecommunications and electronics, naval architecture and management.

In response to government and industry demand, five much more specific areas of practice have been made available to practitioners registered in one of the general areas of practice on NPER. These specific areas of practice for professional engineers are pressure equipment design verification, fire safety engineering, heritage

and conservation engineering, subdivisional geotechnics, in-service inspection of amusement rides and devices. Further specific areas of practice will be added in response to the requirements of government, industry and community demands for improved safety and protection from risks arising from the asymmetry of knowledge between procurer and provider of engineering services. Specific areas of practice being considered are landslide risk management, electrical equipment in hazardous areas and mine mechanical and mine electrical engineering.

## Continuing Professional Development (CPD)

Victoria Division offers CPD in a number of streams, enabling members to undertake a variety of CPD providing them with the opportunity to gather skills and knowledge to assist in all aspects of their careers.

The streams we have identified are as outlined below. We encourage you to participate in these activities and remind you that we have a range of presentations now available online at <http://ea.mediavisionz.com.au/vic>

### Technical Development

Date	Time	Event	Speaker	Venue	Host
24 March	6.00pm	Safety	Prof Rod Troutbeck	Dept of Transport	Engineers Australia
25 March	14:00pm	Challenges and Opportunities facing the education of engineers	Prof David Beanland	Engineering House	Senior Engineers Group
8 April	6.00pm	Eminent Speaker Series – Survival of the Fittest – 90 Years of Dutch Aeronautics – RDT&E in a Globalising Environment	Fred Abbink	Engineering House	Engineers Australia
12 April	6.00pm	Empire Test Pilot School to A380 Pilot: From 50 Knots backwards to 1000 knots forward	Cpt Richard Woodward – A380 captain – Qantas Airways	Engineering House	Royal Aeronautical Society
13 April	5.30pm	Innovations In Steel	David Ryan	Engineering House	Structural Branch
14 April	6.00pm	Sydney PPP Waratah Train Project	Phil Pearce – Downer EDI Rail	Engineering House	Railway Technical Society of Australasia
14 April	6.00pm	Australian Geomechanics Society Technical Seminar	TBA	Engineering House	Australian Geomechanics Society
19 April	6.00pm	Overseas Qualified Engineers Group Seminar	TBA	Engineering House	Overseas Qualified Engineers Group
20 April	5.30pm	Biomedical Technical Seminar	TBA	Engineering House	Biomedical Branch
20 April	6.00pm	How Engineering Leadership (not Politics or Economics) will Solve Climate Change	Geoff Stevens – Univeristy of Melbourne	TBA	Vic CELM
21 April	6.00pm	Site Visit to CSIRO	Site visit	CSIRO Clayton	JVCEC
22 April	6.00pm	Student Careers Night	Panel presentation	Engineering House	Australian Food Engineering Association
26 April	6.00pm	SSEE Technical Seminar	TBA	Engineering House	Society of Sustainability & Environmental Engineering
28 April	6.00pm	Australasian Tunnelling Society Technical Seminar	TBA	Engineering House	Australasian Tunnelling Society
29 April	14:00pm	EWB's GreyPower Group activities for semi-retired professional engineers	Danny Almagor – Engineers Without Borders	Engineering House	Senior Engineers Group
10 May	6.00pm	Royal Aeronautical Society Technical Seminar	TBA	Engineering House	Royal Aeronautical Society
11 May	5.30pm	Forensic Engineering	Rob Heywood	Engineering House	Structural Branch
12 May	6.00pm	Australian Geomechanics Society Technical Seminar	TBA	Engineering House	Australian Geomechanics Society
13 May	5.30pm	Presentation of the Pratt Prize and Student Evening	TBA	Engineering House	JVCEC
13 May	6.00pm	Asset Management Technical Seminar	TBA	Engineering House	Asset Management Council
17 May	6.00pm	Overseas Skilled Migrant Group Technical Seminar	TBA	Engineering House	Overseas Qualified Engineers Group
18 May	5.30pm	Biomedical College Technical Seminar	TBA	Engineering House	Biomedical Branch
18 May	6.00pm	Eminent Speaker Series: Excellent Engineering Leadership	Robin Batterham – Aust Academy of Tech Sciences & Engineering	TBA	Vic CELM
19 May	5.30pm	Springvale Road Grade Separations	TBA	Engineering House	Civil Infrastructure Branch
24 May	5.30pm	SSEE Technical Seminar	TBA	Engineering House	Society of Sustainability & Environmental Engineering
27 May	5.30pm	AFEA Technical Seminar	TBA	Engineering House	Australian Food Engineering Association
27 May	5.30pm	Senior Engineers Group Seminar	TBA	Engineering House	Senior Engineers Group
3 June	5.30pm	Protective Coatings for Corrosion Control	Panel	Engineering House	Australasian Corrosion Association
8 June	5.30pm	Structural Branch Technical Seminar	TBA	Engineering House	Structural Branch
9 June	5.30pm	Australian Geomechanical Society Technical Seminar	TBA	Engineering House	Australasian Tunnelling Society
14 June	5.30pm	Royal Aeronautical Society Technical Seminar #5	TBA	Engineering House	Royal Aeronautical Society
22 June	6.00pm	Managing a Design Office	TBA	Engineering House	Civil Infrastructure Branch

### Professional Development Program

Date	Time	Event	Speaker	Venue	Host
1 April	6.00pm	Process of Becoming Chartered Seminar	Rowan Crosbie Goold	Engineering House	Engineers Australia
14 April	6.00pm	How to Write A Career Episode Report Workshop	Robert Law	Engineering House	Engineers Australia
28 April	6.00pm	How to Write A Career Episode Report Workshop	Lyal Douglas	Engineering House	Engineers Australia
12 May	6.00pm	Professional Interview Workshop #1	Lyal Douglas	Engineering House	Engineers Australia
26 May	6.00pm	How to Write A Career Episode Report Workshop	Lyal Douglas	Engineering House	Engineers Australia
16 June	6.00pm	How to Write A Career Episode Report Workshop	Lyal Douglas	Engineering House	Engineers Australia
24 June	6.00pm	Process of Becoming Chartered Seminar	Rowan Crosbie Goold	Engineering House	Engineers Australia