

Engineering Tasmania

March 2011



ENGINEERS
AUSTRALIA
Tasmania Division

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



Our recently updated Code of Ethics clearly states what we as a profession stand for. We are to use our knowledge and skills for the benefit of the community to create engineering solutions for a sustainable future and we are to strive to serve the community ahead of other personal or sectional interests. We are to demonstrate integrity, practise competently, promote sustainability and importantly, to demonstrate leadership.

There are many areas in which we are called upon to show leadership, particularly in areas addressing disadvantage in our community. Within Tasmania we have a number of groups which experience disadvantage. This may be related to culture, race,

education, socio-economic or other issues. All deserve our attention as a community. The issue of indigenous disadvantage however requires particular attention.

It is worth thinking about why this might be. It starts with an uncomfortable act of recognition; recognition that it was the non indigenous community who created the disadvantage. We took the first inhabitants' traditional lands and dislocated their traditional way of life. We brought the disasters and committed the murders. We created the 'Stolen Generation'. Through our ignorance and prejudice, we practised discrimination and exclusion. We did this and failed to ask how we would feel if this was done to us.

I say this not with a sense of guilt, but with a sense of regret that we have failed to achieve effective reconciliation with the indigenous members of our community after over 200 years of occupation of this country.

So what are we going to do? Solutions do not come easy, but no solution will come without leadership from both sides. We are called upon to act. We are called upon to embark on a journey that, no matter how slow it may be, will lead us to a point of equality and mutual respect with our indigenous Australians.

We need a plan. We need to find a way to come together with greater respect and stronger relationships, a way to provide opportunities for meaningful steps towards reconciliation.

Engineers Australia recognises that nationally there is a large and

unacceptable gap between the living standards and opportunities for Aboriginal and Torres Strait Islander communities and the rest of Australia. Our commitment and response to 'closing the gap' is to produce a national Reconciliation Action Plan (RAP) which will be released in August. A RAP is about Respect, Relationships and Opportunities.

It is worth noting that in Tasmania the most notable area of connection with the indigenous community for many Tasmanians is over approvals for infrastructure projects, projects with which we, as the engineering community, are intimately involved. It is unfortunate that the most high profile of these involve conflict. These projects are our space. We cannot therefore walk away and say that reconciliation is not our problem or that it is not relevant to our profession. In Tasmania, the need for reconciliation is in fact at the heart of what we do and we are called upon to show leadership in working towards a solution.

All over Australia, Aboriginal and Torres Strait Islander communities are taking charge of their own lives. In Tasmania many of the challenges are different, but some of them remain the same, and these are often underpinned by a lack of understanding on both sides. Through demonstrated leadership we must find ways to improve that understanding and produce greater mutual respect and deeper relationships. This is the only way forward. The alternative is stagnation and failure.

We should not pretend that the Engineers Australia Reconciliation

President's Report cont

Action Plan will immediately solve the problems that have become entrenched through years of indigenous dispossession, but it will provide us with a road map and a way to start. I invite you to join me on that journey.

We have a full program this month, including a Fellow's Lunch to discuss the proposed Parliamentary Fellows Program.

This is to be modelled on the program which has been successfully run in Engineers Australia's South Australian Division. The main purpose of the program is to provide senior members from the Tasmanian Division with the opportunity to communicate with the State's decision makers on behalf of Engineers Australia. To achieve reciprocal value the program will offer to provide engineering expertise to Tasmanian Members of Parliament and local Federal Parliamentarians and generate exposure for them within the Engineers Australia professional community. I look forward to welcoming our Fellows at this event.

Greg Walters
FIEAust CPEng Eng Exec



Greg with his wife Nicole and children Georgia and James

PRESENTATION OF FELLOW CERTIFICATES

Both Jim Fox, FIEAust CPEng and David Pollington, FIEAust were presented with their Fellow certificates by Tasmania Division President, Greg Walters at the Launch of the "Year of Humanitarian Engineering" on Friday, 4 February 2011.

Congratulations to both Jim and David



l-r Jim Fox, FIEAust CPEng and Greg Walters, FIEAust CPEng EngExec



l-r Greg Walters, FIEAust CPEng EngExec and David Pollington, FIEAust

Key Dates

1 Page Entry Form due COB 6 April 2011
Detailed Submission COB 18 May 2011
Awards Gala Dinner Friday 29 July 2011

We strongly encourage all members to review what projects they have worked on since May 2009 and select projects to enter into the Awards to help highlight the contribution engineering makes to Tasmania.

The aims of the Awards are to:

- recognise & reward high achievement in engineering;
- promote excellence in engineering;
- demonstrate to the community how engineering creates wealth and improves living standards; and
- encourage & stimulate young people to join the profession.

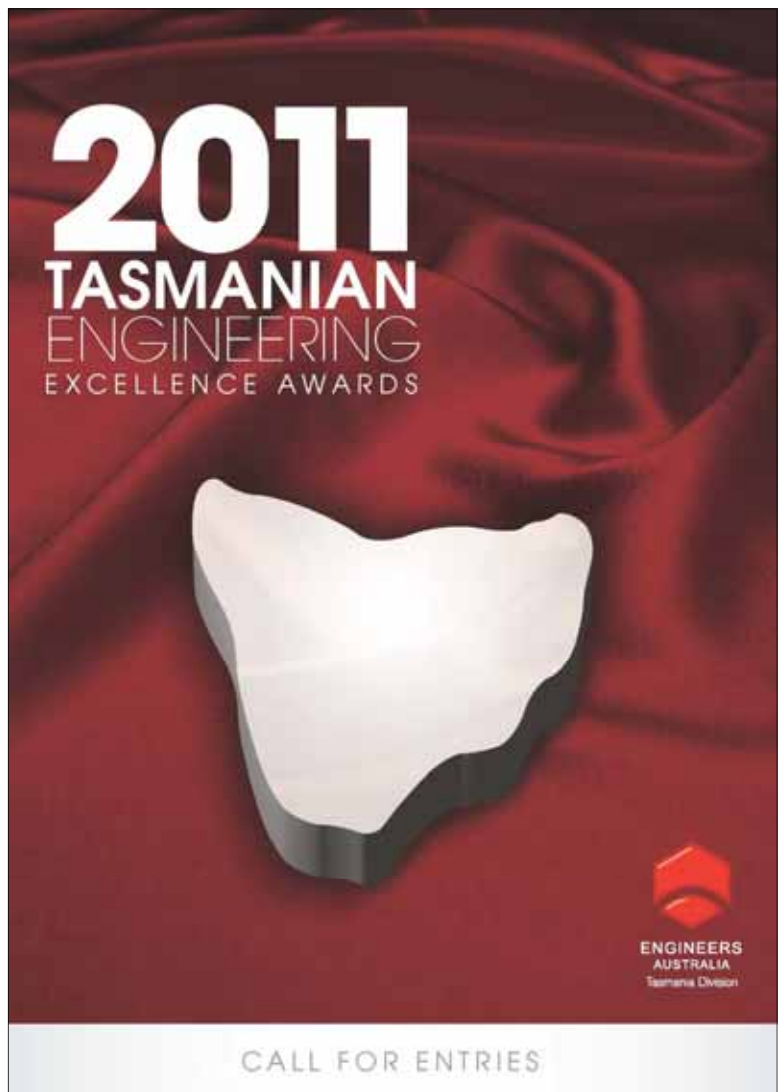
Benefits of entry:

- Wide publicity for your organisation and project
- Industry, government and peer recognition
- Winners will be eligible to enter the 2011 Australian Engineering Excellence Awards

The criteria for judging the entrants are:

- Sound engineering practice/principles.
- Originality/ingenuity
- Adherence to budget and program
- Extent to which the work has provided a safe and healthy working environment

Written submission will be restricted to a maximum of 1,600 words. Entrants will have an opportunity to meet with a judging sub committee and site visits may be undertaken.



For full details relating to the Awards including the Call for Entries brochure and Entry Form, please go to our website www.engineersaustralia.org.au/tasawards

Awards for Individuals

www.engineersaustralia.org.au/tasindividualawards

Nominations for the following Awards are also being sought:

- Professional Engineer of the Year Award
- Engineering Technologist of the Year Award
- Engineering Officer of the Year Award
- Young Professional Engineer of the Year Award
- Young Technologist of the Year Award
- Young Engineering Officer of the Year Award

Judging Criteria:

- Engineering competence
- Demonstrated leadership skills including leadership of teams
- Positive/notable outcomes from their engineering work
- Creativity/innovation
- Community service to industry, the profession and/or society

NOMINATION PROCESS

- Nominations will be captured online from 2 March 2011 and close on 30 June 2011.
- A CV may be used to support the nomination where it will be seen to add value.
- Nominators are encouraged to address those areas of criteria relevant to the nomination within a provided template.
- Nominees must agree to the terms and conditions of the nomination.

ELIGIBILITY REQUIREMENTS

Candidates must be a financial member in the relevant grade at the time of the nomination, be affiliated with the Tasmania Division and supported by at least one referee who is a financial member of Engineers Australia. A third party can prepare a nomination on behalf of the nominee.

The nominee must agree to the nomination and be available to be interviewed by judges.

CONGRATULATIONS/ WELCOME

**Members joining, rejoining
or upgrading**

MEMBERS

Rupert Hall, MIEAust.
Gavin Leng, MIEAust
Kate McIntosh, MIEAust
Daniel Price, MIEAust
Ali Taheri, MIEAust

GRADUATES

Jonathon Elliott, GradIEAust
Patrick Lyden, GradIEAust
Sarah Toohey, GradIEAust

STUDENTS

(StudIEAust)

Katharine Cheng
Alexander Geale
Murray Isles
Timothy Jessup
Thomas Rundle
Christopher Treloar



GAVIN LENG, MIEAust

Gavin graduated with a Bachelor of Engineering (Hons) in Electrical & Electronic Engineering from the University of Nottingham, United Kingdom in 2002.

From late 2002 to mid-2006, he was an Electrical and Electronics Engineer with Lingkaran Trans Kota of Kuala Lumpur, Malaysia. Some of his duties and achievements there were:

UPGRADING MEMBERS

- Maintenance and upgrading activities for cash and electronic Toll Collection Systems (TCS) and specialised traffic systems for the Damansara-Puchong Expressway, Kuala Lumpur
- Worked on projects to expand two tolling stations
- Implemented “Smart Tag” electronic tag based toll collection system
- Implemented enhancement of cash collection system with “Touch ‘N Go” smart cards (similar to Victoria’s Myki project)

From mid-2006 to mid-2008, Gavin was seconded to Sinohydro-Gamuda-WCT Joint Venture (SGWJV) of Doha, Qatar (this arrangement was made possible because Lingkaran Trans Kota is owned by one of the Joint Venture partners). SGWJV was engaged to design and build airfield facilities, road tunnel and detention ponds for the New Doha International Airport (NDIA) project. His roles and achievements there include:

First year (focused on set up and maintenance of construction site electrical infrastructure)

- Lead the installation, testing and commissioning of LV electrical supply for asphalt and polymer plants, laboratories, offices and construction site camp infrastructure
- Enforced electrical safety aspects of Occupational Health and Safety (OHS) requirements
- Lead a team that provided construction site electrical support and maintenance services

Second year (focused on project management of mechanical and electrical works)

- Responsible for project management of the construction of LV substations and building services (lighting, HVAC, fire fighting, CCTV and communications) for two underground road tunnels, two runways and three detention ponds
- Reviewed consultants calculations & drawings for submission to the client

- Prepared engineering support documents (material submittals, construction method statements, inspection and test plans, etc) for the project client’s review and approval

After his tenure at SGWJV, Gavin took a year-long career break to immigrate to Australia.

His first professional job in Australia was as a Test Engineer with Traffic Systems Division of SGS Australia, which provides independent testing and verification services for road safety enforcement technology. Some of his duties there were:

- Examination and testing of road safety enforcement technology equipment
- Preparation of written reports of test results, assessments and observations

Since September 2010, Gavin has been with DIER Tasmania as a Graduate Engineer (Electronics) in the Transport Systems Group of the Roads and Traffic Division.

His role at DIER is:

- To research opportunities for enhancing existing systems and to develop new intelligent transport systems solutions
- To manage projects in accordance with appropriate established processes and procedures
- To assist with the preparation of traffic signal and other traffic management program development and delivery activities

In addition, Gavin plays a support role in the operations and maintenance of the Tasmania’s traffic signals system. Current assignments/projects being worked on:

- Tasman Highway Variable Speed Limit (VSL)
- Dilston Bypass Intelligent Transport System (ITS)
- Evaluation of Constitution Hill Wet & Icy Traffic (WIT) warning system



KATE McINTOSH, MIEAust

Kate has over 11 years experience working in consulting in the fields of civil geotechnical and pavement engineering. She completed her Bachelor of Science Degree in Engineering Geology in 1998 at La Trobe University, Melbourne and following this completed a Bachelor of Science with Honours at the University of Tasmania in 1999. Kate's honours thesis involved studying landslides around the Hobart area using geophysics. She commenced further qualifications in engineering in 2005 through the undertaking of a Masters Degree in Geotechnical and Pavement Engineering through the University of

New South Wales' School of Civil and Environmental Engineering. Kate completed the Masters Program through UNSW in November 2007.

Since completing her undergraduate degree Kate has been working in the geotechnical engineering field, completing her initial two years with Coffey Geosciences where she gained extensive experience in mining geotechnics, hydrology and contaminated sites and later with SKM where she worked for three & a half years, predominantly involved in footing investigations, groundwater studies and other related geotechnical projects.

Kate joined **pitt&sherry** in January 2005, where she now works as a Senior Project Engineer in the Transport Infrastructure Group providing geotechnical engineering expertise on a range of civil infrastructure and road design projects. Kate's role spans over a range of expertise including pavement engineering, project management, dam design/construction engineering, slope stability assessments and footing

investigations and design. Kate is also an experienced project manager and is proficient in overseeing both technical and financial aspects of consultancies.

Some of the major projects that Kate has recently been involved in include the Brighton Bypass and Transport Hub in which she undertook the pavement design components for the project. She has also recently undertaken an evaluation of the road network and provided pavement designs to upgrade the roads for the township of Wonthaggi in Victoria to facilitate the construction of the Desalination Plant which is currently underway.

She is currently Project Manager for the geotechnical investigation and design of the Menzies Centre Stage 2 building. This project is the construction of the new teaching facility for the faculty of medicine at the University of Tasmania, Hobart.

SCHOOLS PROGRAM - ASSISTANCE SOUGHT

Dr Graeme Faulkner, MIEAust CPEng has for a number of years been running very successful Robotics programs in a number of primary schools with the aim of showing students (especially girls) some of the joys of Engineering.

He has developed a website (www.drgraeme.net) with numerous robotics lessons which are being used widely but is seeking some engineers to assist teachers in the classroom. The time commitment would be about 1.5 to 2 hours a week in a school, but that can be flexible. The number of sessions vary between schools, but are mostly run about three quarters of a term.

There is no need for any experience in robotics just an engineering problem solving mind. The program uses Lego NXT Mindstorms robots and Graeme is happy to run a program to introduce interested engineers to the use of these fun robots.

If you can help, please email Graeme at gf@live.com.au





VALE

Tim Burbury, FIEAust CPEng

10 November 1942 - 30 December 2010

Tim was born on the 10th November 1942 and attended the Hutchins School from 1953 to 1960 where he excelled both academically and at sport. In 1963 he obtained a Bachelor of Engineering with Honours from the University of Tasmania.

He was a Chartered practising engineer, registered hydraulics engineer, a registered practising structural engineer and a Member of Engineers Australia from 1968, a Fellow from 1994, Tasmania Division President in 1997. He was a member of the Association of Consulting Engineers, Australia (ACEA) from 1975 to 2003, the President of the Tasmanian Chapter of ACEA in 1993/1994, President of the Tasmania Division of the Committee for Economic Development of Australia and a part time member of the Engineering Faculty of the University of Tasmania.

During the period 1963 to 1972 he was a project engineer and project manager on several engineering projects, including: Tasman Bridge, Hobart; Oil Tanker Berth, Burnie; Warringah Expressway, Sydney; Westgate Bridge, Melbourne; General Cargo Berth, Burnie & Roll On Roll Off Terminal, Stanley.

In 1972 Tim became a principal in the consulting engineering firm Smith, Sale & Burbury, residing in Burnie specialising in civil and structural engineering until 1977 when he moved to Launceston from

where he was responsible for both the Launceston and Burnie office activities. Major projects carried out in the five years to 1982 included: Velodrome Complex, new Launceston General Hospital, Engineering Building for TCAE, residential accommodation block at AMC, Chemical Laboratory Complex for Temco Bell Bay and a multi storey car par for the Launceston City Council.

In 1982 he moved to Hobart as a Principal in Smith, Sale & Burbury and a Director of Trinity Projects Pty Ltd responsible for development of project management in the group. Major projects included: Environmental Design/Craft Complex for TCAE, Launceston; Commonwealth Government offices, Mowbray; Housing for Ship Simulator at AMC; Herbarium Building, University of Tasmania; new head office for Webster Ltd and Flotation Cells Project, Pasmenco.

Tim joined GHD as a Principal consulting engineer based in Hobart in 1993 and worked on projects including: Commonwealth Government Centre refurbishment; Peppermint Hills RDS at New Norfolk; proposed Mt Wellington Tramway Project and the Rehabilitation/Demolition Survey for Savage River Mines, Wynyard.

In 1994 he was appointed Manager of GHD's Tasmanian practice and was the Project Manager or Project Director of the following: Environmental & Planning Approval for MDF Plant for Hokushin Co at Bell Bay; EPCM services for 30 TPH Wood Fired

Boiler and Water Supply & Waste Water Pretreatment at MDF Plant; Engineering infrastructure for Copper Mines of Tasmania, Queenstown; feasibility study for proposed BEKP Mill in northern Tasmania; Report on Demolition/ Rehabilitation of Port Latta Mill & Savage River sites; Value Management Study and Project Business Plan for Clarence City Sewerage Strategy; preliminary engineering infrastructure for proposed Hydro Electric Scheme, Laos and reports & assessment as expert witness on OH&S and technical engineering matters subject to litigation.

In 2004 Tim established his own consulting business, Burbury Consulting providing high level advice and project management expertise to selected clients in land development, project initiation and financing, aged care development and tourism infrastructure.

Tim championed the Mount Wellington cable car proposal for 20 years and in recent months, despite his illness, he was still pushing its cause.

He was an outstanding all round sportsman – a golfer, cricketer, footballer and tennis player. He played cricket and football and was a life member of the University cricket and football clubs and for Burnie in the NWFU. He was a loyal supporter of the Melbourne Football Club and a long standing member of the Tasmania Club.

Tim leaves his wife Susie and five children, Will, Kate, Tim, Sarah and James and eleven grandchildren.

AUSTRALIA DAY HONOUR AWARDED TO PETER SPRATT, AM FIEAust CPEng



On Australia Day this year, Peter became a Member (AM) in the General Division of the Order of Australia for service to engineering through the conservation of historic buildings, the establishment of an online Building Degree course and through contributions to industry associations.

Peter is a consulting engineer who has specialised in the conservation of historic buildings for the past 35 years. He has also served as a municipal engineer, building surveyor, hydraulic engineer, structural engineer and environmental engineer.

Peter has been Member of Engineers Australia since 1968 and a Fellow since 1996.

During his career Peter has been the Principal of his own consulting practice since 1992 and prior to that was a Director, England, Newton, Spratt and Murphy Pty Ltd from 1980-1992.

He was the consultant engineer for conservation of Port Arthur Historic Site 1974-1997, Queensland Environmental Protection Agency 1993, the Conservation Plan for the Raine Island Beacon built in 1844, established guidelines for the

restoration of the ABT railway engines and bridges in Tasmania's West Coast, assessed the structural integrity of the Bridgewater Bridge, and has carried out investigations, reports and conservation works on over 600 buildings around Australia. He has written a range of papers on heritage conservation and engineering and a speaker at numerous conferences

Peter has been a member of the St Mary's Cathedral Restoration Commission since 2003, Project Manager since 2004, Chairman Steering Committee for the Conservation of the Ross Bridge Heritage Tasmania, a Foundation Councillor Tasmanian Heritage Council 1997-2006, Chairman Works Assessment Committee 1996-2006, Member of the Registration Committee 1996-2006, a Panel Member of the Tasmanian Planning Appeals Tribunal, the President Tasmanian Chapter Australian Institute of Building 1992-1994, Federal Councillor 1992-1994, Chairman, Chapter Professional Excellence Award Committee, Chairman Chapter Membership Committee, and a Past President, Tasmanian Branch, Australian Water and Waste Water Association.

He was involved in negotiations with the Tasmanian Building and Construction Industry Training Board and the University of Newcastle to provide a Building Degree Course in Tasmania which commenced in 1995.

Peter has for many years been a very active member of the engineering community and listed below are some of the recognition he has received for his varying contributions:

- Inaugural winner of the Tasmania Division Award of Merit in 1983 for significant contributions to multi-disciplinary studies into the disintegration of historic buildings and for formulating effective correction techniques.
- Received a National Engineering Heritage Award of Merit in 2009.
- His involvement in the 1967 bushfires was recognised on one of the 13 interpretation panels erected at Snug Beach in 2007
- Excellence Award, Engineers Australia Tasmania Division for the Conservation Study & Conservation of Raine Island Beacon in Far North Queensland.
- Association of Consulting Engineers Australia – High Commendation Award in 1984 for Restoration & Conservation of the Penitentiary at Port Arthur.
- Association of Consulting Engineers Australia – Award of Excellence 1995 for Conservation Study & Conservation of Raine Island Beacon in Far North Queensland
- Australian Institute of Building, Chapter Honour Award 1997, for distinguished services to the Practice & Science of Building

The Division congratulates Peter on his Award and contribution to engineering and the community.

AUSTRALIAN MARITIME COLLEGE

PRIZE NIGHT



AMC Principal Malek Pourzanjani, Norman Selfe Medallist Ashley Jones and AMC Board Chair, David Sterrett

The Australian Maritime College recognised the achievements of its students and distinguished alumni at the 2010 Graduation and Awards Dinner. About 190 people attended the event at Riverside's Tailrace Centre on Friday, 17 December.

Northern Committee member Royce Aldred attended the event on behalf of Engineers Australia Tasmanian Division. Royce presented the *Engineers Australia – Norman Selfe Prize*, which was awarded to Ashley Jones for "The best achievement and attainment of professional skills in the final year of a Bachelor of Engineering degree". Ashley fared well at the awards, winning a host of prizes, including The Connell Medal for Best AMC Graduate at Bachelor level.

Nick Duigan and Andrew Hart hosted the night, and their lighthearted approach, as well as the fine cuisine and outstanding venue, made the night enjoyable for all in attendance.

Royce Aldred, TMIEAust
Northern Committee

Right - MCs Nick Duigan and Andrew Hart



→ **2011 year of humanitarian engineering**

It's up to us to engineer a better world.
makeitso.org.au/humanitarian

Engineers Australia is proud to announce that 2011 is the Year of Humanitarian Engineering – a year in which we will recognise the role of engineering in improving quality of life and disaster recovery in Australia and abroad.

2.6 BILLION PEOPLE
LACK ACCESS TO BASIC SANITATION

1 IN 4 PEOPLE
LACK ACCESS TO ELECTRICITY

1 IN 6 PEOPLE
LACK ACCESS TO SAFE DRINKING WATER

ENGINEERS AUSTRALIA
ENGINEERS MAKE IT SO.

engteam.com.au
the Engineers Australia recruitment service

ENGINEERS AUSTRALIA



Young professionals from all professional backgrounds are invited to attend our first event for 2011:

Republic Bar Quiz Night

When: Tuesday, 8 March 2011

Time: 7.00pm

Where: Republic Bar, North Hobart

Cost: \$10 per head

Price includes GST, drinks and nibbles

To register, download the registration form at www.engineersaustralia.org.au/tasevents and return with payment to :

Catherine Reading at Engineers Australia

Tel: 6234 2228 Fax: 6234 2216 Email: creading@engineersaustralia.org.au

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YOUNG ENGINEERS



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

new minds
new ideas.



The Tasmanian Division of Young Engineers and Engineers Australia (YEAT) had the pleasure of hosting a breakfast to celebrate the “Year of Humanitarian Engineering”. Over 80 members of the engineering and engineering related professions attended the event at the Hobart Function Centre. Greg Walters, the Tasmania Division President kindly agreed to MC the event and provide a fantastic introduction for our speakers, David Pointing and Engineers Australia National President, Merv Lindsay.

David spoke about his experience as a young engineer working in the humanitarian engineering sector and the importance and impact of humanitarian engineering. He also spoke about the different avenues that individuals can take to integrate aspects of humanitarian engineering into our lives without requiring major shifts in our careers.



*Greg Walters, Sandra Thaow,
Merv Lindsay & David Pointing*

Merv then spoke about what humanitarian engineering meant to him and his vision for the Year of Humanitarian Engineering and the development of Engineers Australia reconciliation action plan.



YEAT also had the pleasure of hosting the quarterly YEA National committee meeting in Hobart. Members of YEAT and the Tasmanian Division of EA were invited to attend parts of the meeting and have lunch with the national committee. See YEAT’s national representative, Mike Sylvester’s, report on the meeting on page 12.

A Northern “Year of Humanitarian Engineering” dinner has been confirmed for Tuesday, 15 March 2011, at Villarett Gardens, Moltema. Greg Walters will be reprising his role as MC for the event and David Pointing and David Meadows will be speaking about their experiences in the humanitarian engineering field and how engineers can support and undertake humanitarian work. I hope the northern event will be as strongly supported as the southern event and look forward to seeing many of you there.

With February behind us, YEAT looks forward to strengthening its relationship with the University of Tasmania and visiting schools around the State with Women in Engineering. YEAT are always looking for motivated people to join the Committee. There are a number of openings currently available, especially for any students interested in developing their professional networks. We invite you to come along to one of our meetings (the last Tuesday of the month, in the Division’s office at the Royal Engineers Building, 2 Davey Street, Hobart commencing at 5.40pm).

Northern Launch for the Year of Humanitarian Engineering

Tuesday, 15 March 2011 6.00 for 6:30pm

Villarett Gardens, 789 Railton Road Moltena,
(off the Bass Highway near Elizabeth Town)

2 course meal with limited drinks

\$20 EA Members \$35 Non Members

RSVP & PAYMENT ESSENTIAL by no later than

Friday, 11 March 2011



→ 2011 year
of
humanitarian
engineering

The Tasmanian Divisions of Young Engineers and Engineers Australia invite you to attend a dinner in honour of the "Year of Humanitarian Engineers".

The objective of the event is to promote the significance and importance of humanitarian engineering.

David Pointing and David Meadows will be presenting at the event regarding their personal experiences.

RSVP to Catherine Reading by Friday, 11 March 2011

Phone: 6234 2228 Email: creading@engineersaustralia.org.au

Or download registration form from www.engineersaustralia.org.au/tasevents



David Pointing, GradIEAust now works for UNEP Risø Centre for Energy, Climate and Sustainable Development, Denmark.

After completing his PhD at UTas, which explored the introduction of new energy technologies into communities – the technical challenges and the barriers and drivers related to people-side of things, he secured a few million dollars from the combined governments of Scandinavia to put his ideas into action. Now he helps small communities in isolated parts of the "Nordic region" to understand and access sustainable energy solutions.

In 2007 David had a 5 month period volunteering in Cambodia with Engineers Without Borders Australia which taught him that technology is not always the best or only solution.

David Meadows, FIEAust undertook his Master of Arts (Natural Sciences) at Trinity College in Cambridge, UK, before starting his career as a project engineer with AEI Ltd. Since then, David has worked on a range of construction projects in Europe and the Middle East before immigrating to Australia in the late 70's and continuing his career in project management, working on large scale projects in Australia, China, Singapore and Malaysia.

David devotes significant amounts of his spare time each year to his passion for humanitarian engineering. Since 2006, David has travelled annually to Nairobi, Kenya, for 2 months at a time where he teaches project management, design and drafting at a number of local Colleges.

David also works for MMM Australia and is presently working on a home extension for a man with motor neuron diseases at Ulverstone.



How you can celebrate the Year of Humanitarian Engineering

The success of the Year of Humanitarian Engineering is dependent on our members. Help Engineers Australia support the Year by:

- Acting as an Advocate for the Year of Humanitarian Engineering .
- Supporting or organising Year of Humanitarian Engineering events.
- Providing information (news items, event details etc) for the website www.makeitso.org.au/humanitarian
- Acknowledging and celebrating the positive contribution that humanitarian engineering makes and the engineers involved with making it so.
- Getting involved in humanitarian engineering activities.

www.engineersaustralia.org.au

YOUNG ENGINEERS



*Michael Sylvester,
MIEAust CPEng
YEAT National
Representative*

NATIONAL COMMITTEE OF YOUNG ENGINEERS AUSTRALIA VISITS TASMANIA



L – R : Back row: Bryan Davies (Northern), Mike Sylvester (Tasmania), Johnny Carr (QLD), Andrew Baird (Newcastle), Ben Aldham (Vic), Michael Engelaar (SA), Gareth Forbes (WA) Front row: Carla Cher (Past Chair, Vic), Christina West (Canberra), Sofia Sapojnikova (Sydney), Jess Andrewartha (National YEAT Chair & from Tas)

The National Committee of Young Engineers Australia (YEANC) held their first quarterly meeting for 2011 at Hydro Tasmania's office in Hobart from 4 to 5 February. It was the first meeting for new National Representatives from Queensland and Western Australia.

It was a great opportunity for the committee to attend our launch breakfast for the Year of Humanitarian Engineering and see first hand how YEAT promote and run events and more importantly, to see how we spent our funding allocation...thanks!

A key success of this meeting was the agreement of our Operational Plan. This is the committee's connection and alignment with Engineers Australia's Strategic Plan and the basis on which the success of the committee will be measured over the next 12 months. We should now see all YEA divisions readjust their relevant plans to align with the committee's Operational Plan and Tasmania is well on the way to achieving this.

During the meeting on day one, we had the privilege of being addressed by our National President, Merv Lindsay. This was a great opportunity to hear in person the drivers behind Merv's presidency and discuss with him how we can contribute to achieving his vision.

A pertinent and topical point of Merv's vision and an integral part of our Operational Plan is to improve the recognition of Chartered Status within the engineering profession. An integral part of this process will be to recreate the meaning and value that was once associated with this recognition. Please feel welcome to contact me if you have any ideas in this regard.

In my last article I mentioned that YEA had been invited to participate in a panel discussion at the IQPC Bi-Annual Alliance and Collaborative Contracting Excellence Summit that was held in November. The attendance of Young Engineers was most welcomed with excellent feedback received. There appears to be a groundswell in recognition of the contribution that Young Engineers can make from Congress and Special Interest groups. I encourage you to keep on the lookout for opportunities where you can participate and add value to our profession.

The 2012 YEA Engineering Leadership Conference continues to be an important focus of our attention. The conference will be held in Adelaide with YEA contributing to the planning and influencing the topics for the keynote speakers. For anyone interested in a development opportunity associated with leadership in the engineering profession, I suggest that you put this event in your diary.

An exciting and less strategic initiative that we are currently working on is the selection and distribution of new YEA merchandise and brochures. You will see these available soon.

The Young Engineers Tasmanian Division Committee continues to be on the lookout for new members. This is your chance to help define your profession's future. Feel free to contact me on Mike.Sylvester@hydro.com.au or the Division Office if you would like to participate.



Having some R&R sailing on Bill Lawson's boat around the Derwent L – R: Johnny Carr (QLD), Ben Aldham (Vic), Merv Lindsay (National Pres), Bryan Davies (Northern), Jess Andrewartha (National YEAT Chair & from Tasmania), Sofia Sapojnikova (Sydney), Andrew Baird (Newcastle)



Nyssa Muir, GradIEAust

WOMEN IN ENGINEERING

Women in Engineering, Tasmania

Attract. Support. Develop. Celebrate.

Our mission is to increase the participation of women in the engineering profession and allow our members' aspirations to flourish.

Events

International Women's Day

Beginning in 1911 the International Women's day celebration is now 100 years old! There are a couple of events in Hobart so check them out!

Date: Various events on the 7th, 8th and 11th March

More info: <http://internationalwomensday.org.au/iwd/Events/tas>

15th International Conference for Women Engineers & Scientists



This is an international forum and Australia is fortunate to host it in 2011. This conference has attracted some very big sponsors and influential speakers so far.

Venue: Adelaide

More info: www.icwes15.org

WIE BBQ

Hosted by Tasmanian WIE, but **EVERYONE** in Engineers Australia are welcome. Sausages, hamburgers and bread will be provided as well as some soft drink. BYO alternative food and drink.

When: Commencing at Noon, Sunday, 3 April 2011

Where: Longbeach Playground & BBQ area, Sandy Bay

Cost: **EA members = FREE**, Non-members - \$5 per person or \$10 per family.

RSVP: creading@engineersaustralia.org.au



Boards on Your Horizon

Ruth Medd and Claire Braund, co-founders of Women on Boards, will run their new full day workshop and a Celebrating Women Leaders networking event. The workshop is a full day expose on the practical aspects of directorship and how to get yourself a board role.

It is delivered in a no-nonsense style and contains information, strategic advice and useful tips you will not get anywhere else. Suited to aspirant and existing Directors who are:

- Looking at board roles now or in the longer term
- At a career crossroads
- Seeking strategic & practical advice on how to improve their CV and pitch

When: Wednesday, 2 March 2011

Time: 9:00am - 4:30pm

Cost: \$440 WOB Subscribers, \$550 Non-subscribers

What to bring: Current CV and/or My Resume from Women on Boards website

Pre-reading: Tips for Writing Board Resumes - <http://www.womenonboards.org.au/pubs/articles/ref0708chater.htm>

To register go to: <http://www.womenonboards.org.au/my/events/>

This event welcomes WOB subscribers, their guests, the wider business community and anyone who supports women in leadership roles. Build your board network and hear the following panel of experienced directors talk about their path to directorship. Guests include;

- Janine Healy, director Hydro Tasmania
- Kate Stephenson, director Motor Accidents Insurance Commission
- John Hasker, Chair Aurora Energy

News

Welcome Sarah Kube, GradIEAust to the Tasmanian WIE Committee

We are très happy to welcome to the WIE Committee Sarah Kube! Sarah is a mechanical engineer at Hydro Tasmania and brings to the committee many new ideas and enthusiasm.

If you are interested in joining the Committee email us at wietas@gmail.com New members are always welcome and if you're not sure if WIE 'Committeehood' is your cuppa tea, then pop into one of our meetings and have a listen to our discussions.



Two scholarships are available below! Have a read and see if they are relevant to you.

Scholarships - Women on Boards



Women on Boards, a national program aimed to improve gender balance on company boards, has offered to sponsor two Tasmanian women to attend the Gender Matters – Third Women on Boards Conference and the Directors at Dinner event. Women on Boards is offering free registration for two Tasmanian women to attend the Conference, valued at \$3 980 each. The Tasmanian Government will also offer two scholarships, valued at \$500 each, to the successful applicants to assist with travel and accommodation costs.

Where: Sydney at the Sheraton on the Park.

When: 27-29 April 2011

Selection Criteria:

- Female resident in State of application
- Subscriber to Women on Boards
- Director of not-for-profit, community, small businesses or regionally-based organisations **OR** with realistic aspirations of being such a director in the near future.

Applications: Open on 1 February and close at 5pm on 27 February 2011. All applications should be marked to the attention of Ruth Medd, Chair of Women on Boards, and emailed to conference@womenonboards.org.au Successful applicants will be announced in early March 2011.

More info: <http://www.womenonboards.org.au/events/conference2011/scholarships.htm>

Scholarships - International Conference for Women Engineers & Scientists



Engineers Australia’s Women in Engineering National Committee is offering five (5) scholarships for female engineers to attend the 15th International Conference for Women Engineers and Scientists

ICWES15 <http://www.icwes15.org/>

Date: 19-22 July 2011

Where: Adelaide (it’s OK)

What: The scholarship will comprise of:

- 1) Full conference registration; and
- 2) \$500 towards travel expenses

Applicants should provide:

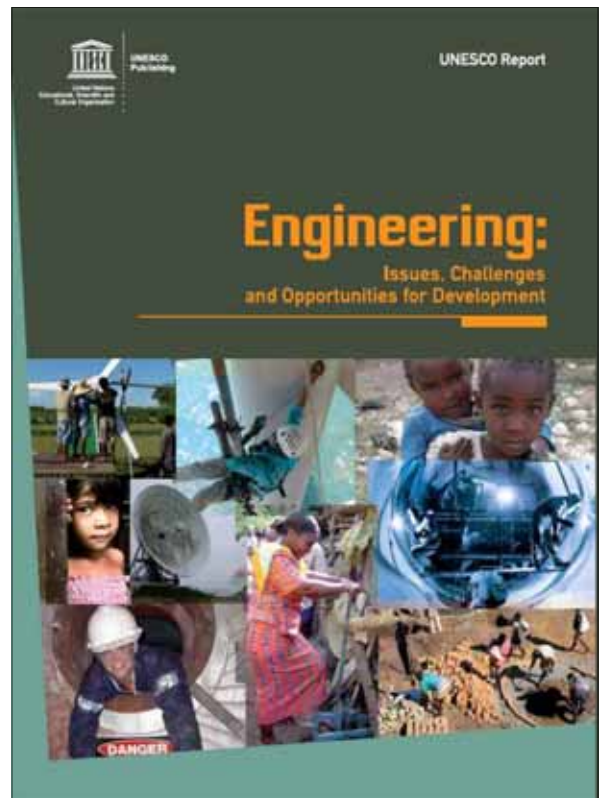
- a curriculum vitae (maximum two pages)
- a discussion of how the conference themes impact on her as an engineer in the 21st century (maximum two pages)
- one paragraph describing the benefits they wish to achieve by attending the conference.

Applications: should be emailed or posted to: Katrina Chisholm, Committee Administrator, WIENC. kchisholm@engineersaustralia.org.au

Applications close at 5pm Australian EST, Monday 28 February 2011. Successful applicants will be notified by 21 April 2011.

Reflection

UNESCO Engineering: Issues Challenges and Opportunities for Development



This is a very well researched document published last year by UNESCO. Why is this 400 page report relevant you may ask? Firstly, it’s the year of Humanitarian Engineering, and secondly there is an good section on Women Engineers (Section 4.7). Seriously, this section is only eight pages long and can make for an interesting/depressing/ hopeful read (depending on your outlook).

Here is the link to the whole report (it’s freely available on the internet, but be warned it is 11MB!) <http://unesdoc.unesco.org/images/0018/001897/189753e.pdf>

Its authors (Wendy Faulkner, Monique Frize and Marlene Kanga) make some interesting points and refer to numerous studies about WIE in Australia which I've summarised here;

- There are 3 subtle dynamics at play which tend to make engineering organisations more supportive and comfortable for men than women.
- Part of the problem is that the male engineer is still very much seen as the norm. As a result, being a women engineer marks you out as unusual, as we are contently reminded by the reactions of others.
- The strategic aim must be to 'normalise' engineering as a career choice for women, so that people inside and outside of the profession no longer presume that 'the engineer' will be a man.
- Many engineering workplaces slowly undermine women's sense that they can belong such as; Topics of conversation, humour and sex talk, routine ways of greeting one another, gendered language ('he' the engineer) and social circles and networks (its not what you know, but who you know).
- Because the male engineer is the norm, even really experienced WIE have to establish their engineering credentials when they encounter a new associate (who may otherwise assume that they are a secretary).
- Moreover, the increases in female engineering degree enrolments seen in the 80s and 90s has now been lost in three short years (2003– 2006).
- It is frequent to hear in male-dominated departments that 'we cannot lower our standards', suggesting that hiring a women in order to diversify will have this outcome. In fact, the bar is often raised for these candidates compared to the expectations from a candidate from a majority group.
- Parental leave should be available to mothers and fathers with no negative impact on their careers.
- Women engineers currently represent less than 7% of the engineer workforce in Australia – one of the lowest participation rates of women across all professions in Australia.
- Equity does not just mean equal number of women & men. It means equal chances of success and career development and having a voice at meetings. It means that average women will succeed as much as average men.
- Women must face challenges fearlessly, discover their talents and skills, and believe in themselves.



Quote of the month

“Creativity is allowing yourself to make mistakes. Art is knowing which ones to keep.”

Dilbert – Scott Adams

Women in Engineering Committee Members:

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

Email: wietas@gmail.com

Family BBQ

Hosted by the
Women in Engineering Committee

Sunday, 3 April 2011

Commencing at 12:00 noon

Longbeach Playground &
BBQ area, Sandy Bay

EA Members = FREE

Non-members
\$5 per person or \$10 per family

Sausages, hamburgers and
bread will be provided as well
as some soft drink.
BYO alternative food and drink.

**All male & female members
are welcome to come along.**

Bring your children, wives, husbands,
partners and friends!

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

Professional Development Courses For Engineers in Tasmania

Delivered by Engineering Education Australia (EEA)
on behalf of Engineers Australia

The Engineering Education Australia (EEA) Professional Development Schedule 2011 includes more than 37 different topics across the core areas of Business, Communication, Leadership, Project Management and Technical Engineering. Delivered in 10 different locations around Australia via a public course schedule and recognised for Continuing Professional Development (CPD) by Engineers Australia (EA) in accordance with EA CPD Guidelines.



Courses available in 2011

Graduate Program in Engineering **NEW** 2 year program starting on 13 April 2011 - \$8,600

Leadership Skills for Professional Women 11 May 2011 - \$660

Safer Construction Design Stage **NEW** 24 May 2011 - \$660

Negotiation Skills 31 May & 1 June 2011 - \$990

Writing Winning Technical Documents 21 & 22 June 2011 - \$990

Project Earned Value Management **NEW** 13 July 2011 - \$660

Contract Management 25 & 26 July 2011 - \$990

Mentoring Skills 5 August 2011 - \$660

Risk and Liability Management 26 & 27 October 2011 - \$990

Developing Your Management Expertise 27 & 28 October 2011 - \$990

All courses are delivered by Engineering Education Australia on behalf of Engineers Australia Tasmania Division, at the Salamanca Inn, Hobart, from 8:30am to 5:00pm and include EEA expert facilitator, comprehensive workbook, morning tea, lunch, afternoon tea and attendance certificate recognised by Engineers Australia for Continuing Professional Development (CPD) in accordance with Engineers Australia CPD Guidelines.

10% saving applies for Engineers Australia Members or for group bookings of three or more participants on any one course/program

TRAVEL SUBSIDY FOR NORTH & NORTH WEST MEMBERS

To assist members in regional areas attend Engineering Education Australia courses in Hobart during 2011, we are pleased to offer a travel/accommodation subsidy of \$150.00 per member.

Please contact the Division Office

www.eeaust.com.au

Please visit www.eeaust.com.au for complete details on EEA professional development courses and programs, including course outlines, objectives, target audiences, facilitators, dates, location, cost and registration.



RESIDENTIAL WATER METERS – THE PROJECT'S ECONOMIC BENEFITS

DATE: Monday, 4 April 2011

TIME: 12.15 to 2.00pm
(Light lunch provided)

PLACE: The Old Woolstore Theatrette
1 Macquarie Street, Hobart

With the roll-out of more than 60,000 residential water meters across Southern Tasmania scheduled to start shortly, Southern Water's CEO, Mike Paine, will outline the project's economic benefits and the substantial infrastructure gains this project will bring.

MIKE PAINE, FIEAust CPEng CEO of Southern Water since January 2010

Mike has had considerable experience in the water and sewerage industry in Queensland, Victoria and now in Tasmania. He was appointed CEO of Cradle Mountain Water in late 2008. Before that he had been General Manager of Customers and Communication at Geelong-based Barwon Water and CEO of Westernport Regional Water Authority, south east of Melbourne.

His passion for water conservation led to his role as a Foundation Director of the Savewater Alliance, which promotes water efficiency nationally.

Mr Paine has a Bachelor of Civil Engineering from the University of Queensland and a Graduate Diploma in Engineering (Municipal Management). He is a Fellow of the Engineers Australia and a member of the Australian Institute of Company Directors.

For catering purposes, please RSVP to Catherine Reading by Thursday, 31 March 2011 on 6234 2228 or creading@engineersaustralia.org.au

HERITAGE MEETING

DATE: Thursday, 24 March 2011

TIME: 7.30pm

PLACE: Royal Engineers Building
2 Davey Street, Hobart

WALLY MOUNSTER

Wally took an early retirement in 1993. Three days after leaving the HEC, he was offered the job of building and commissioning the steam boat "James Goodwin" for use on the Gordon River. This took seven months, the last month was spent living at Strahan and flying to the boat daily by float plane.

In recent years Wally has designed and made two steam powered outboard motors. He has also assisted with restoration of the steam yacht "Preana".

Wally is still involved with square rig ships and is occasionally asked to do trips on ships like Endeavour, Leeuwin and One and All.

"THE EVOLUTION OF STEAM CARS FROM THE 1890's TO PRESENT DAY"



A very early Stanley car

Wally will describe the evolution of steam cars from the 1890's until the present day with reference to the technical problems encountered with boiler design, control of the boiler steam generation and also the design of the engines used. He will also mention the advantages and disadvantages of steam compared to IC cars which a prospective buyer would need to consider when shopping for a car in the 1900's.

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

THIS MEETING WARRANTS 1.5 HOURS CPD

Landslide Risk Management Seminars 2011



Jointly, the Sydney Coastal Councils Group (**SCCG**) and the Australian Geomechanics Society (**AGS**) are conducting a **Landslide Risk Management Education Empowerment** project with funding assistance from the National Disaster Mitigation Program (**NDMP**).



**Australian
Geomechanics
Society**

LRM seminars will be presented throughout the nation with one in Tasmania (Hobart): see below.

Presentations will be as two half-day sessions - with a concentration on presentation on land use planning to regulators in the morning session and a concentration on presentation to geotechnical practitioners in the afternoon session. Registrants would benefit from and are welcome to attend both sessions.

The main objective of the project is to provide, and thereby empower, landslide practitioners and regulators with knowledge and tools required to implement best practice LRM. The project is particularly targeted toward building capability at the local government and regulator level. A suite of educational resources and tools have been developed based on AGS (2007).

The seminars will address this shortfall for both regulators and practitioners.

Now is the time to register to take benefit of the 'early bird' registration savings.

Download a copy of the registration details from the AGS website:
www.australiangeomechanics.org

Hobart Seminar details:

VENUE: Jones & Co. Room, Henry Jones Art Hotel
25 Hunter Street, Hobart

DATE: Thursday, 10 March 2011, 9.00am – 5.00pm

Refreshments and lunch are included in the registration charge

Local Contact Person:

Colin Mazengarb

Mobile: 0400588773

or email: colin.mazengarb@dier.tas.gov.au



EMINENT SPEAKER SERIES 2010-2011

COLLEGE OF MECHANICAL ENGINEERING

Dianne Boddy FIEAust CPEng (Retired)

2010 AGM Michell Mechanical Engineer of the Year

To RSVP for all sessions:

<http://www.engineersaustralia.org.au/eminentspeaker/>



Please note there is a \$10 charge for Non-Members to attend Engineers Australia Eminent Speaker sessions. (Due to the association between the College of Mechanical Engineering & IMechE & ASME, members of these organisations do not have to pay the \$10 charge for attendance at any of the presentations by Dianne Boddy)

Great Design Engineers = Great Achievers

Dianne has enjoyed a wide experience in engineering design, in food canning and factory design, R&D management, robotics, specialized research equipment for materials testing and for Geomechanics centrifuges throughout the world. She has also developed equipment for environmental fluid dynamics research, sonar beacons for positioning deep sea oil drilling rigs, general automation devices, as well as holding senior management and board positions. She has a passion for innovative design and has been the inventor of many patents spanning most of the above fields. She is a self taught engineer, achieving Chartered Status of Engineers Australia in the 1980s (and now a Fellow), and she was awarded the 2010 AGM Michell Medal for her contributions to the profession of mechanical engineering for her 2,000+ projects in her career.

Dianne will be discussing those factors in her career that led to her eminence in design, with particular reference to innovative thinking and the need for comprehensive engineering experience. Whilst sound academic training is essential in today's environment, there are other equally important attributes to being a successful engineer. The talk will cover such topics with reference to what our aspiring young engineers and subsequent graduates should aim for and how senior engineers can assist to develop these talents. We don't just want to be training engineers – we want to be training great engineers! Not everybody will be academic geniuses but many simple plodders such as Dianne (her own words) nevertheless found a way to produce state of the art designs in many fields of application. Other topics to be covered will be the need to aim for simplicity, what is "experience" and when should we consider ourselves as having a worthy opinion on a subject? How do you tackle complex design problems? What constitutes a viable team in respect to a design project? We have entered a new age of Consultants, but seem to have yet to establish how they relate to one another. We are saturated with information – how will we manage it? Design processes are being automated – where will it lead us? Will the individual engineer in his/her practice cease to exist simply because of the cost of design compliance needs and on-going training courses designed primarily for large consulting firms? Dianne will talk on these issues using video & photo examples from some of her 2000+ projects from her own long & amazing career.

PRESENTATIONS

Hobart

Date: Tuesday 29th March

Time: 5.30pm for 6pm Start

Location: Engineers Australia Tasmania Division, Royal Engineers Building, 2 Davey Street, Hobart

Launceston

Date: Wednesday 30th March

Time: 5.30pm for 6pm Start

Location: Auditorium, Australian Maritime College, Building 8, Maritime Way, Launceston

Devonport

Date: Thursday 31st March

Time: 6.45pm Start

Location: Gateway Hotel, 16 Fenton Street, Devonport

Note: An optional dinner (Cost \$20) will be held prior to the presentation from 5.30pm. Registration & Payment for the dinner is to be made when registering online for the presentation. No payment is available at the door.

Please see the website for details of other presentations around Australia.

2010-2011 SERIES SUPPORTING PARTNERS:



Members of Engineers Australia can claim CPD hours for attendance at this event. Members should refer to Engineers Australia's CPD Policy for requirement details and conditions.

CALENDAR 2011

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

MARCH

Tuesday 8 - Young Professionals Network Tasmania - Quiz Night - 7.00pm - Republic Bar, North Hobart - \$10 per person - **Registration & Pre-Payment Essential** to Catherine Reading 6234 2228 or creading@engineersaustralia.org.au (Refer to page 9)

Thursday 10 - Joint Australian Geomechanics Society & Sydney Coastal Councils - Landslide Risk Management Seminars 2011 - 9.00am to 12.30pm & 1.30pm to 5.00pm - Henry Jones Art Hotel Function Centre, 25 Hunter Street, Hobart - Refer to online registration form at: www.engineersaustralia.org.au/tasevents (Refer to page 17)

Tuesday 15 - NORTHERN Year of Humanitarian Engineering Launch - 6.00 for 6.30pm - Villarett Gardens, 789 Railton Road, Moltema - **via Elizabeth Town** - 2 Course meal & limited drinks - \$20 EA Members & \$35 Non Members - RSVP to Catherine Reading 6234 2228 or creading@engineersaustralia.org.au (Refer to page 11)

Thursday 24 - Heritage - "The Evolution of Steam Cars from the 1890's until Present Day" - Wally Mounster - 7.30pm - Royal Engineers Building, 2 Davey Street, Hobart - RSVP to Catherine Reading 6234 2228 or creading@engineersaustralia.org.au (Refer to page 18)

Tuesday 29 - Eminent Speaker Program - HOBART - Dianne Boddy FIEAust CPEng (Retired) - "Great Design Engineers = Great Achievers" - 5.30 for 6.00pm - Royal Engineers Building, 2 Davey Street, Hobart - RSVP at www.engineersaustralia.org.au/eminentspeaker/ (Refer to page 19)

Wednesday 30 - Eminent Speaker Program - LAUNCESTON - Dianne Boddy FIEAust CPEng (Retired) - "Great Design Engineers = Great Achievers" - 5.30 for 6.00pm - Australian Maritime College Auditorium - RSVP at www.engineersaustralia.org.au/eminentspeaker/ (Refer to page 19)

Thursday 31 - Eminent Speaker Program - DEVONPORT - Dianne Boddy FIEAust CPEng (Retired) - "Great Design Engineers = Great Achievers" - 5.30 for 6.00pm - Gateway Inn Hotel - RSVP at www.engineersaustralia.org.au/eminentspeaker/ (Refer to page 19)

APRIL

Sunday 3 - Women in Engineering - Family BBQ - 12.00noon - Longbeach Playground & BBQ area, Sandy Bay - EA Members FREE, Non Members \$5 per person or \$10 per family - Sausages, hamburgers, bread & some soft drink provided - RSVP to Catherine Reading 6234 2228 or creading@engineersaustralia.org.au (Refer to page 15)

Contract Management Training

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

Courses provide CPD points consistent with Engineers Australia guidelines

Upcoming Courses March - August 2011

March	22	Hobart	Contract Management Fundamentals
	23-24	Hobart	Contract Administration - Works
July	19-20	Melbourne	Contract Administration - Works
	21-22	Melbourne	Contract Management for Superintendents
August	16	Hobart	Preparing Scopes of Work & Specifications
	17-18	Hobart	Contract Management for Superintendents

Discounts apply to members of Engineers Australia

CONTRACT CONTROL INTERNATIONAL



E: training@ccintl.com.au

P: (07) 3236 1936

W: www.ccintl.com.au

Graduate Program in Engineering for Engineers with up to 4 Years Experience

Delivered by Engineering Education Australia (EEA) on behalf of Engineers Australia

The Graduate Program in Engineering is a for Engineers with up to four years experience who are starting their journey towards Chartered status and Professional Formation. It is delivered over a two year period, within a structured framework of professional development workshops, supporting online resources and a Community of Professional Practice (CoPP). It is delivered in alignment with the Engineers Australia Stage 3 Engineering Competencies for Chartered status and is recognized by Engineers Australia for Continuing Professional Development (CPD) in accordance with Engineers Australia CPD Guidelines.



www.eeaust.com.au

For more information and to register please visit www.eeaust.com.au or contact the EEA Team on Email info@eeaust.com.au or Telephone 03 9274 9500



Monday 4 - Residential Water Meters, The Project's Economic Benefits - Mike Paine (Southern Water) - 12.15 to 2.00pm - Old Woolstore Theatre, 1 Macquarie Street, Hobart - RSVP to Catherine Reading 6234 2228 or creading@engineersaustralia.org.au (Refer to page 17)

Wednesday 13 - EEA SHORT COURSE - Graduate Program in Engineering - Salamanca Inn - 8.30am to 5.00pm - **HOBART** - \$5,940 (EA Members) - \$6,600 (Non Members)

Monday 18 - Eminent Speaker Program - LAUNCESTON - Tony Wong, MIEAust CPEng - 2010 Civil Engineer of the Year - Details to be confirmed

Tuesday 19 - Eminent Speaker Program - HOBART - Tony Wong, MIEAust CPEng - 2010 Civil Engineer of the Year - Details to be confirmed