# Engineering Tasmania

July 2008

ENGINEERS AUSTRALIA
Tasmania Division

Newsletter of Engineers Australia, Tas Division - Royal Engineers Building, 2 Davey Street Hobart
Telephone (03) 6234 2228, Fax (03) 6234 2216 or E-mail tasmania@engineersaustralia.org.au

### *IN THIS ISSUE*



## PRESIDENT'S REPORT

***Activities of Your Division Committee***

My April report concentrated on supporting our volunteers and I noted the resources available on the Engineers Australia website at www.engineersaustralia.org.au/volunteer-support. I also considered the reasons why members become involved noting a desire to make a real difference and contribute to the engineering profession. Division committee membership provides an opportunity to input into a broad range of issues and activities. Division activities are guided by the objectives detailed in the Division's two key strategic documents being the ***Operational Plan 2008-2009*** and ***Engineer's Vision***.

The content of these documents was outlined in my May Report. This report concentrates on some of the recent activities of the Division Committee.

Members have been involved in the State Government's Water & Sewerage Reform workshops on regulatory frameworks, a Transport Forum conducted by the Department of Infrastructure, Energy & Resources during which work on future transport needs and how to use the existing infrastructure better was outlined.

The Division plans to take the opportunity to provide feedback to the Department. The Department of Infrastructure, Energy & Resources was also approached to raise members' concerns regarding cyclist safety on the Tasman Bridge and suggested possible remedies for the Department's consideration. Recently the Committee considered and provided comment on Engineers Australia's Telecommunications Infrastructure Report Card and a draft report on Primary & Secondary Education in Tasmania.

Building Act issues continue to consume the Director's time extending back to issues raised in a May 2007 letter to the Department of Infrastructure, Energy & Resources regarding the future of accreditation of engineers under the Building Act. Recent developments regarding new draft categories for engineers under the Building Act raised members' concerns regarding the low level of qualifications required to gain accreditation in the category Civil Designer considering the scope of work which they could undertake.

Looking to preserving the past, the Heritage Committee arranged the plaquing of the Lake Margaret Power Station by the Governor of Tasmania and is now planning to hold the National Engineering Heritage Conference in Tasmania during November 2011.

Looking to the future, the "Engineering Initiative", the subject of my June Report, arose from the Government's recognition of the skills shortage. The Division's involvement with Martin Stalker, the Education Department's North West Vocational Education Learning Development Officer, is both exciting and rewarding and I look forward to its success over the years and possible expansion nationally.

Also looking to the future, sustainability is in the forefront of our minds. A Sustainability Forum, (a national initiative) was held on 1 May 2008 at the University of Tasmania giving members insights into the issues, challenges and provided opportunities to input into the formulation of a Sustainability Charter.

Representing Engineers Australia is a key role. To this end Committee members recently attended the TAFE Tasmania Southern Graduation Ceremony, the Australian Maritime College – 2008 Graduation & Prize Giving Ceremony & Dinner, and the

***Continued on page 3***

## CONGRATULATIONS/ WELCOME

**Members joining, rejoining or upgrading**

### MEMBERS

Russell Collins, MIEAust
Grant Henderson, MIEAust
Mark Santalucia, MIEAust CPEng
Kenneth Thomason, MIEAust

### GRADUATE

Richard Apted, GradTIEAust

### STUDENTS

(StudIEAust)

Brendan Askey-Doran
Morgan Barry
David Brown
Ben Cantle
Daniel Causon
James Chamberlain
Samuel Chugg
Joshua Clark
Murray Dadson
Marian Gheorghe
Jonathan Haines
Robert Hudson
Peter Jones
Joe-Simon Kadisha
Trevor Leacy
Eik Liaw
Simon Little
Alex McNair
Alexander Males
Thomas Mitchell Ferguson
Charles Nelson
Keziah Royce
Patrick Russell
Tristen Smart
Josh Stones
Daniel Thomas
Richard Ting
Patrick White
Jason Williams

# UPGRADING MEMBERS

**MARK SANTALUCIA, MIEAust CPEng**

Mark graduated from the Australian Maritime College with a maritime engineering degree in 1996. His first job was with Boral Gas (now Origin Energy) as a project engineer working at the 1500 tonne LPG storage facility in Devonport. During his time in the Devonport office, Mark worked on some significant projects; one such project included the first underground LPG vessel for a service station site in Tasmania for Boral Gas, located at Caltex Burnie.

Mark was promoted to the Launceston office in 1997 to complete the decommissioning of the Towns Gas reticulation system in the Launceston CBD and surrounds. After completing this project he was promoted to the position of Manager of Service and Installation where he was responsible for the engineering management for Origin Energy in Launceston and associated districts and provide engineering support to the North West Tasmania for the supply, transportation and distribution of LPG. During his 7 years at Origin Energy, Mark worked on many and varied projects with one of the most interesting projects being the design of a reticulated TLP (Tempered Liquefied Petroleum) Gas system to supply the Sinter Furnace at BHP Temco, Bell Bay.

Mark moved to Gleeson & Associates in 2001 where he was appointed a trainee boiler and pressure vessel inspector working with various clients around Tasmania. Mark obtained his registration as a Registered Plant Inspector with Workplace Standards Tasmania in February 2002. After receiving this qualification, Mark worked around Tasmania inspecting and certifying pressure vessels for various clients some including, Incat, Tassal, Simplot, ACL Bearing Company, Eckart Australia, Comalco, Norske Skog, Tasmanian Police and the University of Tasmania.

In 2004, Mark accepted a position with Pitt & Sherry Consulting Engineers in Hobart as a Mechanical Engineer. In this role Mark worked with many industrial clients providing multi-disciplinary engineering consultancy. Some clients including Nyrstar Hobart Smelter, Cadburys, BHP Temco, Comalco, Henty Gold Mine, Zinifex Rosebery Mine, and Inghams. Mark worked on many diverse projects for the 4 years at Pitt & Sherry, one such project was the design of a prototype slinger for Nyrstar in Hobart. The objective of this project was to design and test a prototype slinger to throw zinc concentrate into the roaster up to 7 metres.

During his time at Pitt & Sherry, Mark worked on several large scale crane projects, some projects being the a major end of life inspection for 130 tonne cranes at Bluescope Steel at Hastings in Victoria, a design review of two 70 tonne cranes for Poatina Power Station for Hydro Tasmania, and the repair and re-certification of a 125 tonne American Lattice boom crane for Haywards Steel Fabrication in Breadalbane.

Mark has completed many training courses and is particularly interested in industrial thermography, completing a Melbourne University course and registered as a Level 1 Thermographer with the Australian

Institute for Non-Destructive Testing (AINDT). Mark likes expressing the benefits of preventative measures that an infrared image can provide.

Mark spent a short period working with GHD based in Hobart as a senior mechanical engineer and has had the opportunity to work with some interesting and diverse characters on some wide and varied projects. One project was project managing a review of the zinc smelter for Nyrstar in Port Pirie, South Australia.

Mark has recently accepted a position with Scott Wilson Consulting Engineers and will be based in Dubai, United Arab Emirates (UAE) where he commences as a senior maritime engineer in late June 2008.

Mark is a member of the Australasian Institute for Certification of Inspection Personnel (AICIP), an Australian based organisation aiming to standardise in-service inspection linked to the WTIA. Mark was the first Tasmanian candidate to successfully pass the qualification process.

Mark is the proud father of two amazing children, and outside work he enjoys spending time with his delightful wife and family travelling, renovating, gardening and camping.

## KENNETH THOMASON, MIEAust

Ken Thomason completed an Associate Diploma of Civil Engineering from the Queensland University of Technology in 1989.

Ken then worked as a Civil Designer for various consultants and local government until completing a Bachelor in Civil Engineering from the University of Tasmania in 2004.

Upon completion of his degree Ken commenced as a Design Engineer with Hobart City Council. In 2006 Ken moved to Kingborough Council in the role of Transport and Reserves Engineer. The role is responsible for design, construction and operation of road, transport and reserve assets for Council.

Ken has been working on a number of strategic projects for Kingborough's future as well as being superintendent for a 2.5M road reconstruction project for the Kingston CBD in which he supervised design, tenders and construction.

Ken has recently accepted a role with SMEC Services working as Road & Pavement Engineer for Kabul Municipal Council in Afghanistan. The assignment is the Kabul Urban Roads Improvement Project which is a part of the United Nations reconstruction of Afghanistan program.

**NOMINATIONS ARE INVITED FOR THE JOHN MONASH MEDAL FOR ENGINEERING HERITAGE**

Engineers Australia has established the John Monash Medal as an award to recognise outstanding contributions made by individuals towards increasing the awareness and conservation of Australia's engineering heritage.

A **"How to Nominate"** guide is available from the Administrator of Engineering Heritage Australia, Helen Slat on (02) 6270 6525 or email hslat@engineersaustralia.org.au

**Nominations and all documentation must be lodged by 31 August 2008**

***President's Report continued ….***

Building & Construction Industry Training Board's Innovation Award presentation lunch also attended by Lisa Singh MHA.

A key Committee role is initiating, organising and being involved in events. To that end it is pleasing to see the success of the Young Engineers' "Speed Networking" event, and Welcome Barbecue at the University of Tasmania and the combined Centre for Engineering Leadership & Management and Women in Engineering Women's Leadership Workshop. Preparations are progressing for Engineering Week, the Science & Engineering Challenge, Young Engineer's Gen2X event, and the Alan Burn Memorial Lecture to be held in October, presented by Air Vice Marshal David Dunlop. The latter two events are aimed at a wide audience, including engineers, their partners and the broader community.

We await with interest National Office's outcomes and initiatives arising from the Beaton Strategic Marketing project.

From the above, there is plenty of opportunity at your Division level to make a difference. Division elections are held in November so there is plenty of time to consider involvement – do not wait to be asked – please contact myself or Geoff Harper and we will put you on the right path to rewarding experiences that are also fun.

**Mike Green, FIEAust CPEng EngExec**

**DO YOU WANT TO BE INVOLVED IN DIVISION ACTIVITIES, HAVE A SAY IN WHAT HAPPENS LOCALLY, AND BE AN ACTIVE MEMBER ??**

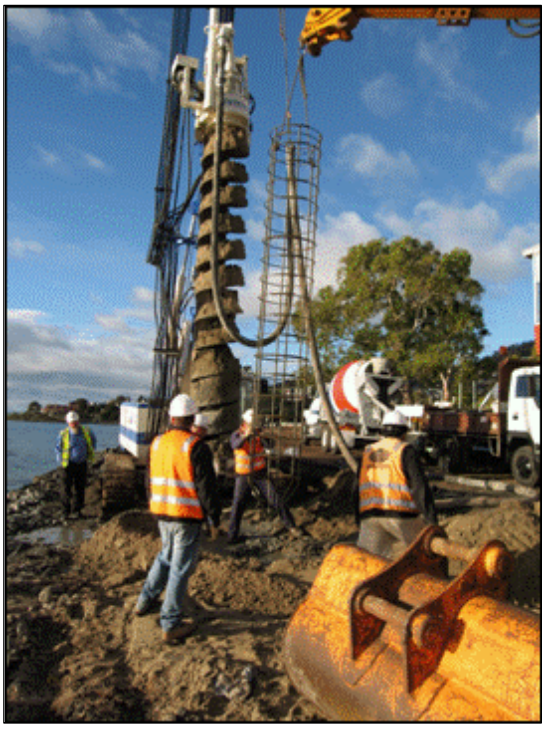
**IF SO, CONTACT THE DIVISION OFFICE TODAY ON 6234 2228**

# Long Beach Redevelopment
# Sandy Bay

In February 2008 the Hobart City Council awarded the contract for Stage One of the redevelopment of Long Beach at Sandy Bay. Onsite work commenced in late March and to date has progressed well.

The aim of the project is to improve the amenity of the area and to create a more welcoming entrance to Hobart from the river. The redevelopment extends from the front of Prosser's restaurant to Blinking Billy Point, approximately five hundred metres. The necessity of this project has arisen due to the failure of the existing seawall and promenade in a number of places due to undermining in significant storm events.

Stage One consists of demolishing the existing seawall and associated structures and constructing a new precast concrete wall, new bleachers, a DDA ramp and stair access to the beach and variable width promenade. Stage One also includes the widening of the walkway between the existing Bathing Pavilion and Blinking Billy point.



***Steel Cage being placed in concrete pile***

***Precast wall panels being placed***

The new structure is founded on approximately one hundred and eighty nine hundred millimetre diameter continuous flight augur (CFA) concrete piles. The concrete being used in all areas of the job has a minimum compressive strength of 50 MPa and either applied water resistant sealant or admixtures to aid in reducing the permeability. The reinforcement steel is either hot dip galvanised bar or marine grade 316 stainless steel with a minimum concrete cover of sixty five millimetres.

Works completed to date include; the construction of a temporary car park in Long Point Road, temporary access to the Southern and Northern ends of the site, site establishment and set out, all CFA piles have been constructed and approximately one hundred metres of precast wall panels have been placed.

The current work is expected to be completed towards the end of 2008, Stage Two of the redevelopment will commence upon completion of Stage One.

**Nicholas Dwyer BE (Civil) MIEAust**
Project Engineer, Hobart City Council

# pitt&sherry Champion Climate Change & Sustainability Strategy Success

Tasmanian based engineering consultancy, pitt&sherry, is determined to be leaders in the field on climate change and sustainability and have implemented a strategy to ensure their success.

Two years ago, pitt&sherry undertook and extensive consultation with staff to establish a theme of sustainable*thinking* that has been incorporated into its overall approach to business.

According to pitt&sherry's managing director, John Pitt "this decision is not just reactionary, pitt&sherry has a human face, we are a group of people, with our own families, and thus our own hopes and aspirations for future generations".

Mr Pitt said "we believe that we have a responsibility, and an opportunity, to contribute to the improvement of community social and environmental outcomes through our work and performance as a an economic entity".

***Phil Harrington***

To progress its strategy, pitt&sherry have recently appointed Phil Harrington as their principal consultant responsible for climate change and sustainable development. Phil's previous experience on the international stage, and here in Australia gives him the best possible credentials to lead the sustainability and climate field within the company.

Phil's previous executive positions include: deputy secretary with Tasmania's Energy, Infrastructure & Resources Department; group manager with Aurora Energy; senior executive manager of the Australian Greenhouse Office in Canberra, and division head of the Energy Efficiency Policy Analysis Division, International Energy Agency (IEA) in Paris.

Phil Harrington says "Most people think of climate change as a relatively new phenomena; I guess we have Al Gore to thank for that through his documentary *An Inconvenient Truth*. But the debate surrounding climate change has been around since at least the 1980s when the Brundtland Commission first came into existence."

He is recognised as an international authority on renewable energy, energy efficiency, and climate change policy and strategy. Phil's many successes include developing and implementing the world-first Mandatory Renewable Energy Target (MRET) scheme, alongside a wide range of climate change mitigation programs.

Further details about pitt&sherry's climate change and sustainability strategies are available on their website – pittsh.com.au, or by calling Phil Harrington on (03) 6210 1489.

## Climate Futures Tasmania - Infrastructure

**pitt&sherry** has received funding from the Department of Economic Development and Tourism under its Research Partnerships Program for the *Climate Futures Tasmania - Infrastructure* project. **pitt&sherry** will work with its research partner, the Antarctic Climate & Ecosystems Cooperative Research Centre (ACE CRC), to scope, research and prepare an expert system that will undertake a detailed engineering assessment of the affect that predicted climate change will have on infrastructure in Tasmania. The project aims to capitalise on detailed climate modelling being undertaken by ACE CRC in the *Climate Futures Tasmania* project.

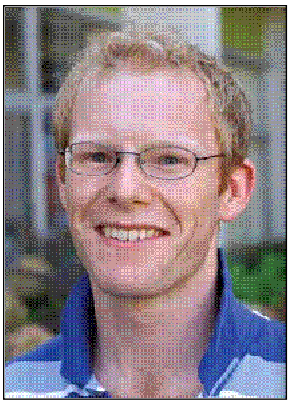
The project will examine the climate change risks incorporated in both the planning and design of infrastructure and the future serviceability of its components. The detailed understanding, methodologies and expert systems will provide a Tasmanian based competitive service that can be used by Tasmanian Infrastructure owners to future proof their services.

The funding supplements support for the project from major utilities with infrastructure in Tasmania. The benefits to participating utilities will include participation and input to the development of the system and access to the intellectual property developed that could include standardised procedures and manuals, decision models, sensitivity analysis along with background data, algorithms and tables or other material suitable for specific infrastructure planning and analysis of components.

For further information contact Phil Gee on (03) 6210 1420

# YOUNG ENGINEERS

new minds. *new ideas.*



*James Porter, GradIEAust*
*Vice Chair*

After a very busy May, the YET Committee has had a comparatively quiet month since the June edition of ET was published. Rest assured, however, that we have been busily preparing our next crop of events for you to enjoy!

Recently, we have had professional engineers visiting schools in preparation for the **Science and Engineering Challenge**, encouraging students to get excited about the possibilities science and engineering offer. There are almost 40 schools entered in this year's Challenge, proving the popularity of this event and its effectiveness in promoting Science and Engineering to students, at a point in their education where subject choices are very important. The first round of heats for the Challenge get underway on 7 July and I can highly recommend helping with supervision of the activities, as they are quite a bit of fun! Let us know if you are interested!

Nominations for the **Young Professional Engineer, Engineering Technologist, and Engineering Officer of the Year** have now closed. Thank you to everyone who did nominate and the assessment panel will be carefully considering each submission, with the winner to be announced at the Gen$^2$X Gala Dinner on 4 August 2008.

Speaking of which, the Organising Committee are hard at it with preparations for the **Gen$^2$X Gala Dinner**. The evening will be held at the Royal Yacht Club of Tasmania on Monday, 4 August and promises to be an evening of fine food and wine (or beer) combined with a few interesting generational and gender exchange diversions. We will also have Patrick Hill, the 2007 Young Professional Engineer of the Year, as a guest presenter on the night. Please refer to the advertisement on page 7 for all the details.

Following the success of our **Speed Networking** event in Hobart, we are organising a similar event in Launceston later in the year. If you are a young engineer in the north of the State and are interested in getting involved with YET events, we would love to hear from you!

For more information about Young Engineers Tasmania please contact our Chair, Jess Andrewartha on email jessica.andrewartha@utas.edu.au or myself at jsporter@utas.edu.au and we will be sure to answer any questions.

**James Porter, GradIEAust**
Vice Chair

## Meet your Young Engineers Tasmania Committee

## Introducing

### JAMES PORTER, GradIEAust

James graduated with a Bachelor of Mechanical Engineering with Honours in 2005. A strong interest in fluid and thermo dynamics during undergraduate studies made the opportunity to begin a research PhD at UTas in aerodynamics very attractive. James is now in his third year of candidature working on a gas-turbine cooling project with Rolls-Royce Plc. The project is examining turbine blade film cooling holes, and aims to reveal the unsteady flow mechanisms that influence how well these holes perform. Optimising cooling hole performance in terms of cooling effectiveness and aerodynamic losses has a significant effect on the overall efficiency of the engine. With the huge number of gas-turbine engines in power generation for land, sea, and air applications, tied with increasing fuel costs, efficiency gains of less than 1% have a huge impact on running costs and environmental impact of the engines. A combination of high resolution experimental measurements and computational fluid dynamics (CFD) has revealed some interesting flow behaviour so far.

James has been involved with the YET committee for close to 3 years and has enjoyed being involved with many events during that time. An opportunity to help nurture and shape the future of Engineering in Tasmania, and to support young professionals in their development are motivations for his involvement. Outside of engineering, James is a keen cyclist and mountain biker and has recently taken up paddling in preparation for multisport challenges later in the year. James also enjoys golf, BMWs, and spending time with partner Erin.

Young Engineers and Women In Engineering Tasmania

# Gen²X Gala Dinner

Generation and Gender Exchange

## Connecting in a Virtual World

Celebrate diversity at the 2008 Generation and Gender Exchange. Attendees will be treated to a modern look at virtual teams and how people of all ages and backgrounds can collaborate effectively from separate geographical locations. Learn how to ease communication and travel, whilst pooling the best talent from your organisation into one cohesive project team, with Guest Speaker Patrick Hill, 2007 National Young Engineer of the Year. **The evening includes a 3 course meal with limited beverages and the presentation of the Tasmanian Young Engineer of the Year Award 2008.**

*Patrick Hill, 2007 Young Engineer of the Year*

**Senior Engineers** – *do you want to maximise your human capital and keep employees engaged? Do you want to lower travel expenses and make working conditions more flexible?*

**Young Engineers** – *do you want to be involved in exciting projects no matter where they are taking place? Do you want easy contact with mentors and project partners?*

Then come along to Gen²X and find out how!

Knowledge

Excellence

Exchange

Diversity

Retention

**Monday, 4 August 2008**
**6.30 for 7.00pm**
**Royal Yacht Club of Tasmania** **Black Tie Event**
$35 EA Members $45 Non Members
**(Payment must be made when registering)**
RSVP essential by 28 July to:
creading@engineersaustralia.org.au Tel: 6234 2228

Gold Partner:- HATCH

Local Partner:- GHD

Silver Partners:- Connell Wagner, American Express, coffey geotechnics

*Vanessa King, MIEAust*

# 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 member's aspirations to flourish.

## Coming Up:

Our **Lunch at the University of Tasmania (AMC campus)**, to enable current engineering students to meet the WiE Committee and understand more about what Engineers Australia can do for them is now set for 25 July – contact Kate Cormack or Amanda Halley (both via wietas@gmail.com) for details.

This year's **Gen 2X event** (to be held in conjunction with Young Engineers) is planned for **Monday, 4 August**. It will be a Gala Dinner, including the announcement of the Young Professional Engineer of the Year for Tasmania.

We are planning a social dinner in the south, for late October. We're thinking of making it a story telling evening: alarming, or funny, or heartwarming, stories about our times as women in engineering. Please start thinking – and writing if you don't want to speak to the group, we'll have people to read stories out on behalf of our quieter members. Please send stories to Vanessa King - wietas@gmail.com

## News

**Departure: Hayley Young** has been our energetic Northern Representative for some time now, but her energy and enthusiasm for life are (sadly for us) taking her back to New Zealand – to join the NZ Navy. Our loss is their gain – good luck Hayley, and thank you for your contributions while on the Committee.

**Arrival: Kate Cormack**, from Rio Tinto, has stepped up to be the Northern Representative on the Committee – welcome Kate!

Our **lunch at the University of Tasmania (Hobart)**, to enable current engineering students to meet the WiE Committee and understand more about what Engineers Australia can do for them, went really well with around 20 -25 people attending, including students, Committee members and other women keen to support Women in Engineering initiatives. Some great networking was done – thank you again to Meredith McQueen for organising.

We are continuing to contribute to the "Attracting Girls to Science, Engineering and Technology" project run by Dr Bernardo Leon de la Barra from UTas – sadly, progress has been delayed by a lack of action by some of the schools. What a shame!

Did you see that **Engineers Australia's Women in Engineering National Committee (WIENC) has won the right to host the next International Conference of Women Engineers and Scientists (ICWES15) in Adelaide in July 2011**? "This will be the first time that an international conference devoted to women in science, engineering and technology will be held in Australia," said WIENC Chair Dr Marlene Kanga. The conference will be offered in partnership with the leading women's associations in science, engineering and technology in Australia and New Zealand. Kanga said ICWES15 is already well supported by the government of South of Australia and the City of Adelaide, and the WIENC hopes to gain sponsorships from leading companies around Australia.

## Profile:

## Cassandra Blazely, GradIEAust

**Degree:** Bachelor of Engineering (Civil) with Honours - University of Tasmania, Class of 2006.

**Place of Employment:**

Department of Infrastructure, Energy and Resources, on secondment to GHD Pty Ltd from June 2007 to June 2008.

**When did you join WiE Tas Committee and what is your position?**

I joined the Committee in January 2008. My current roles within the group include acting as the WiE representative for the Engineers Australia Tasmania Division and managing the WiE group's website and mail accounts. I recently became the Tasmanian representative on the National WiE Committee. [busy woman!]

**What made you decide to become more involved in the WiE committee?**

I was approached by female friends and colleagues about joining the Committee. I attended a meeting and found that promoting women in engineering (and engineering in general) was something that I wanted to be involved in.

**When did you decide to become an engineer?**

My decision to become an engineer came when I was about 14. A representative from the University of Tasmania visited my Year 9 Maths class to introduce Engineering to us and explain what it was all about.

Until this time I had only a vague notion of what an engineer was and hadn't considered it at all as a career option for myself. I knew that academically my strengths lay in maths and science, but I had no clear idea of how to use these strengths. I wanted to use them in a future profession, but I didn't want to be an academic or a 'scientist' in the traditional sense.

I listened to the presentation and was amazed that there was an entire profession in existence that I had never really thought about. A profession that was a mixture of theory and real world practical problem solving. It was also apparent that an education in engineering would put me in a position to pursue a wide variety of different careers paths. The diversity of opportunities available was very appealing to someone still unsure of what direction they wanted to take.

**What engineering discipline did you decide on and why?**

When I started my degree at UTas, I didn't expect to major in civil engineering. The UTas engineering course begins with 3 semesters of common subjects, i.e. all students, regardless of their future specialisation take the same introductory courses to provide them with a sample of all the different fields available.

When I first started university I found electrical engineering, (in particular power generation) very interesting. However, it didn't take me long to realise that I had no affinity with electrical subjects, and that the civil and mechanical subjects were far more enjoyable. I found civil subjects more satisfying as I could relate them easily to the world around me.

**Current Employment Status?**

At the end of my second year of study, I was fortunate enough to obtain a scholarship/ undergraduate position with DIER. My association with DIER introduced me to the Transportation field, where I have remained ever since.

After graduating I began full time work at DIER's Traffic Engineering Branch. Currently, though still employed by DIER, I am on a 12 month secondment to GHD to gain experience in a design office. I will be back at DIER by July 2008.

**Obstacles to overcome to be an engineer:**

I believe the biggest hurdle that I have overcome in becoming an engineer occurred before I even began University: the presentation by the UTas representative I mentioned previously was the only time in my high school career that engineering was even mentioned to me. If that presenter had not spoken to my class, I have no idea where I would be today, or whether I would have even considered a career in engineering.

This is one of the main reasons that I am enthusiastic about promoting engineering in schools. I would hate to think that there are other people, women in particular that might have had wonderful, fulfilling careers in engineering, but didn't, simply because they were never made aware of the opportunities available to them.

## Reflection:

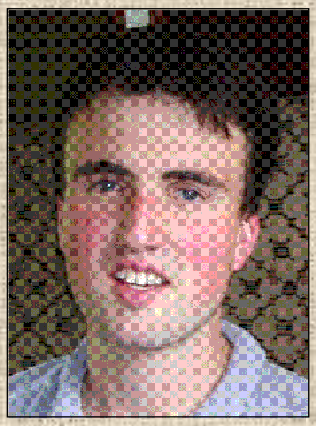
Sometimes it's good not to live up to your usual standards. For example, when the whole family has colds – that's a good time to take some pressure off. If a chronic perfectionist like me can do it, you can too!


Women in Engineering Committee Members:

**Amanda Halley, Vanessa King, Meredith McQueen, Fiona Evershed, Rebecca Hindley, Kate Cormack, Erin Driscoll, Cassandra Blazely**.

Email: wietas@gmail.com

## BEN JOHNSTON, GradIEAust JOINS THE ENGINEERING HERITAGE AUSTRALIA BOARD



A recent initiative of Engineers Australia is to encourage the representation of Young Engineers on College Boards. In response to a request from Young Engineers Australia for volunteers, Engineering Heritage Tasmania obtained Ben Johnston's agreement and forwarded his nomination for appointment to the EHA Board. Ben attended his first Board meeting in Melbourne on 23 May 2008. As most of the current Board members are retired engineers, a young face was very welcome.

Ben graduated in Electrical Power Engineering at the University of Tasmania in 2000, and worked for Hydro Consulting for 5 years. In 2005-06 he spent 7 months in the UK working for Network Rail on the West Coast Main Line upgrade. Back in Tassie he now with Hydro Generation as an Engineering Contract Electrical Engineer.

In the heritage field, Ben has an abiding interest in railways (he went to his wedding by train!). He is a volunteer at the Tasmanian Transport Museum Society and has a steam plant operators ticket. At his first EHA Board meeting, Ben was exposed to the wide range of heritage issues under discussion. He is keen to become involved and his role will be developed in the coming months.

**Bruce Cole, FIEAust CPEng**

## eCPDRecord - Engineers Australia's new online CPD Recording System is now live!

Engineers Australia announces the release of its new online CPD Recording facility: eCPDRecord.

The new system enables members to easily enter & review their post January 2007 CPD activities (Type I – VIII); track their progress against the CPD Policy requirements; and print off summary reports in Excel, Word or PDF formats ready for their Audit submissions.*

To access the online system, head to "http://www.engineersaustralia.org.au/cpd/" and then click on the "Record and Review CPD" section.

* **Please note** that Members with CPD undertaken *prior* to 2007, under the old CPD Policy Types (A-F) should continue to record that CPD in either the Excel or Word CPD recording templates available on our website.

An exciting new **Member Benefit Offer** for Engineers Australia members

# Virgin Blue's The Lounge and Velocity Rewards

Virgin Blue have offered our members a **special rate of $269** if they join before 31 July 2008. That is, they have waived the initial joining fee which is a **saving of $279**.

Details of the benefits of **Virgin Blue's the Lounge and Velocity Rewards** are available online at www.engineersaustralia.org.au/member-services/member-benefit-offers then click on Virgin Blue.

The Lounge is located in Brisbane, Sydney, Melbourne, Adelaide and Canberra domestic airports.

# GEOMECHANICS SOCIETY
## (Tasmanian Chapter)

**DATE:** Tuesday, 15 July 2008

**TIME:** 5.30 for 6.00pm
Royal Engineers Building
2 Davey Street, Hobart

## FIELD VISIT TO TAROONA LANDSLIDE PRECEDING THE MEETING

**A short field visit to the Taroona Landslide will be held before the meeting between 4.00 – 5.00pm on the 15 July.** The excursion will include an overview of the real time monitoring system being installed and the latest evidence of landslide movement and mechanisms. For those wishing to attend **please assemble at the Taroona Primary School car park. For further details please contact Colin Mazengarb on 0400 588 773.**

## DR PHIL FLENTJE
**University of Wollongong**

Phil is an Engineering Geologist and his principal area of interest is landslide risk management. Currently Phil is a Senior Research Fellow in the Faculty of Engineering at the University of Wollongong. His research at Wollongong is industry based where he collaborates with the Wollongong City Council, the NSW Roads and Traffic Authority and the NSW Rail Corporation.

Phil has a PhD from the University of Wollongong (1997), a Masters in Applied Science from the University of New South Wales (1993) and a BA with Honours from the University of Adelaide (1984). Prior to his PhD, Phil worked as an engineering geology consultant in the Sydney Basin Region for 7 years and before that as an exploration geologist in various remote areas of Australia based out of Adelaide and Perth.

## "LANDSLIDE RISK MANAGEMENT – LANDSLIDE FREQUENCY & MONITORING"

The importance of assessing landslide frequency when undertaking Landslide Risk Management is stressed in the recent AGS 2007 guidelines yet this can be the most challenging aspect of the process. To address this problem the talk will outline several ways in which this can be done quantitatively, using both spatial and temporal methods. After a brief mention of the compilation of historical/anecdotal records and GIS inventories, the talk will detail landslide monitoring and particularly continuous data logging and the importance of the data record this builds up. Examples of this data will be demonstrated showing how it can be used to help develop frequency of movement versus magnitude of movement relationships but also thresholds to aid management decision making.

Real-time web based delivery of data, as developed by the University of Wollongong will be demonstrated.

**RSVP:** Colin Mazengarb on 0400 588 773
cmazen@mrt.tas.gov.au

## THIS MEETING WARRANTS 2.5HRS CPD

# NORTH WEST GROUP

## DINNER MEETING

**DATE:** Wednesday, 16 July 2008

**TIME:** 6.00 for 6.30pm

**LOCATION:** Quality Hotel Gateway, Devonport

## DALE LUCK, FIEAust CPEng
Dale P Luck & Associates

## "GARBAGE BALING AT THE CURRIE REFUSE TRANSFER FACILITY"

Dale will be speaking about the Baling of household waste on King Island. It was very difficult to find a new solid waste disposal site which satisfied environmental requirements as well as the wishes of the local community. A site was eventually found, but there were some residual concerns from some quarters. It was eventually decided by Council to make the significant move to collect all solid waste at Currie, bale and wrap it, then place it in the Refuse disposal site some distance away. The talk will look at the issues this system raised, effect on the RDS operations and give a progress report.

**MEAL COST:** **$15.00**

**RSVP:** Vere Cooper 6424 0558
vcooper@devonport.tas.gov.au

**BY:** Noon on Monday, 14 July 2008

## THIS MEETING WARRANTS 1.5HRS CPD

# CALENDAR 2008

## JULY

**Tuesday 15 - Geomechanics** - FIELD VISIT TO TAROONA LANDSLIDE at 4.00pm & LANDSLIDE RISK MANAGEMENT: LANDSLIDE FREQUENCY & MONITORING - Presentation at the Royal Engineers Building, 2 Davey Street at 5.30 for 6.00pm - Dr Phil Flentje - RSVP to Colin Mazengarb 0400 588 773 or *cmazen@mrt.tas.gov.au* (Refer to page 11)

**Wednesday 16 - North West Group** - Garbage Baling at the Currie Refuse Transfer Facility - Dale Luck (Dale Luck & Associates) - 6.00 for 6.30pm - Quality Hotel Gateway, Devonport - RSVP to Vere Cooper 6424 0558 or *vcooper@devonport.tas.gov.au* (Refer to page 11)

**Friday 18 July - Joint Northern Group / Women in Engineering 'Christmas in July' Dinner. Details are being finalised but put this date in your calendar now so that you don't miss out on a winter's evening full of warmth and good spirits! A flyer will be distributed as soon as possible.**

## AUGUST

**Monday 4 - Young Engineers & Women in Engineering - Gen2x Gala Dinner (Black Tie) - $35 EA Members or $45 Non Members** - Royal Yacht Club of Tasmania, Marieville Esplanade, Sandy Bay - **RSVP ESSENTIAL by 28 July** to Catherine Reading 6234 2228 or *creading@engineersaustralia.org.au* (Refer to page 7)

**Thursday 7 - NATSPEC** - 2 Courses - Specification Writing Seminar (8.30am) & Specification Word Processing & Production Seminar (11.00am) - Salamanca Inn, 10 Gladstone Street, Hobart - Cost per course is $88.00 - Contact Catherine Reading 6234 2228 or *creading@engineersaustralia.org.au* for a registration form

**Tuesday 12 - Electrical - SITE VISIT** - Residential Lift Company - 5.30 for 6.00pm - 13 Athleen Avenue, Lenah Valley - **NUMBERS LIMITED TO 20 - RSVP ESSENTIAL** - Contact Catherine Reading 6234 2228 or *creading@engineersaustralia.org.au* (Refer to this page)

**SUBSCRIPTION RENEWAL REMINDER**

**PLEASE BE REMINDED THAT YOUR 2008/2009 SUBSCRIPTION FEE IS DUE FOR PAYMENT BY 30 JUNE 2008.**

**A LATE FEE OF $33.00 WILL BE APPLIED IF PAYMENT IS NOT RECEIVED BY 21 JULY 2008.**

**SUBSCRIPTION FEES MAY BE DEDUCTED MONTHLY BY PERIODICAL PAYMENT. CONTACT THE DIVISION OFFICE FOR APPLICATION FORMS ON 6234 2228**

## ELECTRICAL BRANCH MEETING

## SITE VISIT TO THE RESIDENTIAL LIFT COMPANY

**DATE:** Tuesday, 12 August 2008

**TIME:** 5.30 for 6.00pm

**PLACE:** 13 Athleen Avenue, Lenah Valley (corner of Bealey Avenue)

The Residential Lift Company in Tasmania has developed an innovative, economical, unobtrusive domestic lift, which is easy to install and has comprehensive safety features.

Speakers from the company will outline the electrical, mechanical and structural features of the lift.

Members will be able to view a working example of the lift in a domestic situation.

**NUMBERS LIMITED TO 20 ONLY**

**RVSP ESSENTIAL BY: 7 AUGUST 2008**

Catherine Reading 6234 2228 or creading@engineersaustralia.org.au

**THIS MEETING WARRANTS 1.5HRS CPD**