George Mariasson

Corporate Social Responsibility in Practice

As a child, George Mariasson loved buildings and fondly remembers looking over plans that his father had drawn up, trying to understand the concepts. When it came to choosing a career, George chose civil engineering because it allowed him to combine his love of architecture with his other passion: science. Since graduating with a Civil Engineering degree in 1979, he worked in construction and structural engineering before moving into IT and project management. He believes that Engineering has given him excellent management and planning skills that are highly valued in the business world. His latest role as Associate Director, Engineering and Transportation, for Social Enterprise Consulting has given him the opportunity to use technical and management skills give something back to the community.

Social Enterprise Consulting work in partnership with Cumberland Industries, a not for profit organization that provides employment to over 500 people with disabilities. Profits from the consultancy fee paid to SEC consultants go directly toward providing additional employment opportunities and resources for Cumberland employees. Recent assignments consultants have worked on include the Port of Melbourne Channel deepening, Brisbane International Airport, the Panama Canal Expansion and Kuala Lumpur International Airport.

Call for Nominations

Engineering Alumni of the Year Awards.

The inaugural Engineering Alumni of the Year Awards will be presented on October 27 as part of the University’s Spring Back to Sydney reunion. See page 11 for nomination procedures.
Social Enterprise Consulting is a product of the growing corporate social responsibility movement and involves 50 internationally renowned consultants in various areas of business and industry. Social Enterprise Consulting automatically provides clients with corporate social responsibility in their projects by maintaining standards of CRS ethics and refusing to accept any work that does not fit these standards.

As president of the Civil Engineering Graduates Association, George is also keen to see fellow alumni reconnect with the university. He believes that alumni connections provide means for people to connect socially as well as to build career and industry contacts. George believes that it is the alumni that form the connection between the university and the broader world and he hopes to be able to be a human face of alumni for the Faculty of Engineering.

For further information on Social Enterprise Consulting, please see the website at www.sec.org.au
Dean’s Report

I recently had the pleasure of attending the 50 year reunion of the graduating year of 1957 at the Royal Sydney Yacht Squadron organised by John Doherty and Max Sherrard. Thirty of that year attended, many with their partners, and it was a wonderful and happy occasion. There is more detail later in this Newsletter. This is the year of the 7s and it is hoped that reunion of the 67s, 77s, 87s and 97s will occur later in the year at the University wide function on 27th October to be held on Campus. More detail of this function is also included in this Newsletter.

The Faculty is delighted to see that the Governor of New South Wales, Her Excellency Professor Marie Bashir AC CVO, was elected Chancellor of the University for 4 years. Although Professor Bashir is well known for her work in the medical field, particularly psychiatry, it is less well known but important to this Faculty that last year she was made an Honorary Fellow of the Academy of Technological Sciences and Engineering. She accepted this honour at a dinner at Parliament House in Macquarie Street where she demonstrated her clear understanding and appreciation of the role of engineers in society.

The new Resolutions of Senate for the Faculty of Engineering and Information Technologies were passed at the University Senate meeting on 7th May. This marks the formal beginning of a new era for the Faculty with the incorporation of the School of Information Technologies. The Faculty now offers the undergraduate degrees of Bachelor of Information Technology, and Bachelor of Computer Science and Technology along with the traditional Bachelor of Engineering. In 2008, students will be able to enter the Flexible First Year program which will lead to any of these degrees. At the same time, the Graduate School of Engineering and IT has been commissioned in the lower level of the Faculty Link Building. Two new Associate Deans, Professor Assaad Masri in Research and Research Training, and Dr Liaquat Hossain in Postgraduate Studies, will lead the Graduate School. Mrs Lesley Vanderkwast has been appointed as the manager and we welcome her from the Faculty of Architecture, Design and Planning.

Professor Gregory Hancock, Dean
The Graduating Class of 1957 Reunion

A celebratory lunch was held at the Royal Sydney Yacht Squadron, Kirribilli to mark the occasion of the 50th Anniversary of Graduation of the class of 1957 on May 5 2007.

57 persons attended, including thirty graduates from the ‘Class of ’57’ The setting was magnificent; the weather superb with clear blue sky. The gathering commenced at 12 noon with scheduled completion at 4:00 pm, and the de facto completion at 7:30 pm. Visitors came from far and wide – NSW, Queensland, ACT, Victoria, Tasmania, Western Australia, Ontario Canada and California, and Washington USA.

Convivial circumstances were apparent from the opening 45 minutes of pre-lunch drinks through to the three-course buffet, coffee and then downstairs to continue on. Reminiscing would have taken up much time but intermingled with plenty of erudite discussion.

Addresses from the Dean, Professor Gregory Hancock, and Professor Jill Trewhella, 2004 Federation Fellow and Fellow in the School of Molecular & Microbial Biosciences, were very well received. Professor Hancock spoke about the faculty, its structure and its strengths; Professor Trewhella spoke of her specialty in the field of cell organisation.

At the formal conclusion of the lunch, all attending graduates were presented with a Proxy Testamur, signed by the Dean, as a memento of the occasion of the “Quinquagesimus Reconciliato” (semi-centenary or 50th Anniversary) for their survival since Graduation on 2 May 1957, of the “… intervening trials, tribulations and occasional triumphs in the practising of their profession, and everything else …”

The Class of 1957 have held reunions every five years since graduation. In 1957 the Faculty of Engineering graduated 89 Bachelors of Engineering. 14 are believed to be deceased; 75 were invited to the Luncheon, 52 responded and 30 attended. The individual specialities into which all the class progressed as they moved through the four years of engineering education did not detract from the common-link of the faculty, one team, one objective – good engineering for humanity. The aim to retain the Inter-Faculty sporting trophy, significantly influence the SRC and the Union, and generally have a good time was never neglected.

We enjoyed it all then, and clearly continue to enjoy it today.

John Doherty

John Doherty is the President of the Engineering Sydney Alumni Association, a member of the Graduating class of 1957 and was joint organiser of the reunion.

John and the ESA committee are active in promoting various matters of interest to all Alumni, and encourage individual years to organise reunions as one way to keep up with Faculty & University activities, how they can assist Alumni and vice-versa.

jdoherty@bigpond.com
Graduating Class of 1957 Reunion

Members of the graduating class of 1957 who attended the 50th Anniversary Reunion on May 5.

Back row, left to right: John McKerral, Barry Anstey, John Thornett, John Willis, Ken Waterhouse, Peter Wolstenholme, Keith Taylor, John Doherty.


2nd from front row: Barry Vickery, Murray Mansill, Ian MacFarlane, Stephen Mateffy, John Moten, Donald Pike, Ron Halloran, Mike Turner, Hugh Ralston, Phil Winn.

Front: Zigmas Budrikis, Brian Fuller, Lee Dworjanyn, Clifford Kwan Gett.

Also in attendance: Derry Hill and Louis Pidcock.

Spring Back to Sydney reunion in 2007

SAVE THE DATE! Saturday 27th October, 2007

Relive the memories of your University days and celebrate your anniversary graduation with family and alumni colleagues.

To RSVP, please complete the registration form available online at: www.usyd.edu.au/alumni/activities/reunions/spring.shtml or call +61 2 936 9222

Also visit our ‘Look Who's Coming’ webpage to see if your alumni friends will be attending!
Letters

When reading the excellent centrefold in the Alumni Newsletter about Dr John Bradfield, I thought it might have been worth mentioning that his youngest son Dr Bill Bradfield, who died last year, was also a very distinguished engineer from the Faculty of Engineering at the University of Sydney.

Bill was a man with whom I had a lot of contact during my working life and for whom I developed great respect, and eventually in later life we became personal friends. He was certainly a worthy son of a famous father.

Yours sincerely

J.R. Baxter B.E.

Engineering Sydney would like to thank Mr Baxter for reminding us of the accomplishments of Dr Bill Bradfield. The following profile continues the story of the Bradfield legacy in the Faculty of Engineering.

The Bradfield Cabinet in the School of Civil Engineering (above) contains archives and memorabilia related to Drs Bill and John Bradfield and includes the robe that Bill Bradfield wore at his graduation at Oxford University. (left)
Dr K.N.E. “Bill” Bradfield OBE

Keith (Bill) Bradfield was the youngest son of Harbour Bridge designer Dr John Bradfield and the only one of his six children to follow him into the Engineering profession.

Bill graduated from the University of Sydney with first class honours in Science (1932) and Civil Engineering (1934). In 1935 he received a Rhodes Scholarship to Oxford University where he completed a PhD in the calculation of stresses in complicated frameworks such as aircraft.

Bill returned to Australia in 1939 where he worked for the Queensland Department of Roads and later the Commonwealth Department of Civil Aviation where he eventually became First Assistant Director General (ground facilities) with the responsibility for the design and development of all aerodromes, ground aides and facilities in Australia.

After the war he worked to keep airport design ahead of the needs of the faster, heavier planes that were being built. The development of large jets such as the Boeing 707 and the DC8 and later Boeing 747s challenged aviation designers to come up with new ideas.

During the 1960s, Bradfield designed a new international terminal for Sydney after a controversial government decision to construct a new airport at Tullamarine in Melbourne left the Sydney aviation establishment furious, believing that Sydney’s dominance as Australia’s main gateway would be threatened.

In retirement, Bill’s passion remained the development of Sydney Airport. He supported a plan for an airport called Kingsford Smith Airport South in the Kurnell area on the south side of Botany Bay and he believed Sydney Airport had the potential to be the best in the world.

He received an OBE in 1966 and The Edward Warner Award (the highest award in civil aviation, awarded by the International Civil Aviation Organisation) in 1991. He also represented Australia on the International Civil Aviation Organisation Council, formulating standard for aircraft noise and anti hijacking legislation.

Bill retained close ties with the University of Sydney throughout his life. He took particular interest in the School of Civil Engineering, sponsoring the Bradfield Memorial Prize which is awarded annually to the most distinguished student graduating with first class honours in Civil Engineering.
Engineering and IT Careers Fair
Engineering and IT Careers Fair

Engineering Sydney held the annual Engineering and Information Technologies Careers Fair in the Seymour Centre on April 3. The new venue, high demand for Engineering and IT graduates and the dedication of Executive Director, Keiran Passmore, resulted in the expansion of the 2007 event to include 52 organizations representing a broad range of Engineering and IT disciplines. The event was very well attended by students eager to meet with employers to discuss graduate employment, vacation placements and scholarships. The fair presents a unique opportunity for organizations to recruit students who specialize in engineering and information technology.

The next Engineering Sydney Engineering and Information Technologies Careers Fair will take place in April 2008. For further information please contact Keiran Passmore, Executive Director, Engineering Sydney on 02 9351 5768 or email kpassmore@eng.usyd.edu.au.
Honours and Awards

2007 Moisseiff Award

Professor Kim Rasmussen, Head of Civil Engineering, and his former PhD student Dr Maura Leece (now at the University of Toronto) have been awarded the 2007 Moisseiff Award from the American Society of Civil Engineers for a paper entitled:

Distortional Buckling of Cold-Formed Stainless Steel Sections: Experimental Investigation and Distortional Buckling of Cold-Formed Stainless Steel Sections: Finite-Element Modeling and Design published in the Journal of Structural Engineering, April 2006. The selection committee particularly noted the papers' report on groundbreaking research on the distortional buckling of cold-formed stainless steel sections and the development of advanced design recommendations for such members.
Engineering Sydney Engineering Alumni of the Year Awards

Engineering Sydney invite nominations to the inaugural Engineering Sydney Engineering Alumni of the Year Awards. The awards will be presented at the Spring Back to Sydney Reunion to be held at the Eastern Avenue Building, Camperdown Campus on October 27 2007.

Preamble

The awards are intended to recognize alumni of the Faculty of Engineering who have shown exceptional dedication, creativity or leadership in their field of professional endeavour which may include outstanding contributions to the community.

Eligibility

A person is eligible to be considered for an Engineering Sydney Alumni Award if:

1. The person is an alumnus of the Faculty of Engineering at the University of Sydney.
2. Nominations may be self nominations or independent nominations
3. Nominations must be submitted in accordance with the procedures set out below.

Nomination Procedure

Nominations for Engineering Sydney Alumni Awards must be lodged with the Executive Officer, Engineering Sydney, Room 241, Link Building J13, Faculty of Engineering, University of Sydney NSW 2006 by October 1 2007. Nominations must include:

1. A nomination form available from the Executive Officer, Engineering Sydney or the Engineering Sydney Website at www.eng.usyd.edu.au/engineeringsydney/alumniawards.shtml
2. The name and contact details of the nominator and person nominated.
3. A curriculum vitae or summary of the professional and personal achievements of the person nominated
4. A supporting statement of up to 500 words by the nominator which addresses the following matters in relation to the person nominated:
   a. The statement must address the criteria listed in the preamble above.
   b. Self nominations must contain the names and contact details of three referees.

Determination of Awards

The Engineering Sydney Alumni Awards Committee shall, from among nominations received, determine the persons who should receive awards. There are two broad categories: Engineering Sydney Alumni of the Year and Engineering Sydney Young Alumni of the Year (awarded to a person aged 35 and under by the end of the current calendar year). There will also be a special Engineering Sydney 2007 Award to an alumnus who graduated in a year ending in 7 in recognition of the Spring Back to Sydney reunion. This award will be drawn from nominations in the categories of Engineering Sydney Alumni of the Year and Engineering Sydney Young Alumni of the Year.
### Deans Advisory Committee

<table>
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<tr>
<th>Name</th>
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<tr>
<td>Professor Gregory Hancock AM</td>
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<td>Professor John Small</td>
<td>Pro Dean</td>
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<tr>
<td>Professor Assaad Masri</td>
<td>Associate Dean Research</td>
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<td>Dr Liaquat Hussain</td>
<td>Associate Dean Postgraduate</td>
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<td>Professor Liyong Tong</td>
<td>Associate Dean International</td>
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<td>Dr Doug Auld</td>
<td>Associate Dean Undergraduate</td>
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<td>Dr Marjorie Valix</td>
<td>Associate Dean First Year T&amp;L</td>
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<td>Dr Tim Wilkinson</td>
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<td>Associate Professor David Airey</td>
<td>Associate Dean Learning and Teaching</td>
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<td>Professor Lin Ye</td>
<td>Head of School Aerospace, Mechanical and Mechatronic Engineering</td>
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<td>Professor Robert Minasian</td>
<td>Head of School Electrical and Information Engineering</td>
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<td>Professor Albert Zomaya</td>
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<td>Professor Kim Rasmussen</td>
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<td>Associate Professor Geoff Barton</td>
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<td>Professor Hugh Durrant Whyte</td>
<td>Director Australian Centre for Field Robotics</td>
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<td>Professor Ron Johnston</td>
<td>Director Australian Centre for Innovation and International Competitiveness Limited</td>
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<tr>
<td>Keiran Passmore</td>
<td>Executive Director, Engineering Sydney™</td>
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<td>Eric van Wijk</td>
<td>Faculty Executive Officer</td>
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### Presidents and Executive Officers of Foundations and The Warren Centre

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<tr>
<td>Professor Michael Dureau</td>
<td>President Electrical and Information Engineering Foundation Executive Director Warren Centre for Advanced Engineering</td>
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<tr>
<td>Stuart Glanfield</td>
<td>Executive Officer Electrical and Information Engineering Foundation</td>
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<tr>
<td>Ian Frew</td>
<td>President Chemical Engineering Foundation</td>
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<td>Peter Thornton</td>
<td>President Civil Engineering Foundation</td>
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<td>John Young</td>
<td>President of the Aerospace, Mechanical and Mechatronic Engineering Foundation</td>
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<tr>
<td>Peter North AM</td>
<td>Chairman, Warren Centre for Advanced Engineering</td>
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<tr>
<td>John Doherty</td>
<td>President, Engineering Sydney Alumni Association</td>
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<tr>
<td>Blake Mair</td>
<td>President, SUEUA (Student Organisation)</td>
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Please let Engineering Sydney know if you have changed address, telephone number, email or job so that we can update our records and keep you up-to-date with Engineering Sydney information.

Please complete the following information and return to:

Susanna Smith  
Rm 231, Building J13  
Faculty of Engineering  
University of Sydney NSW 2006  
Fax : 02 9351 4654 Email: susanna@eng.usyd.edu.au

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