



AUSTRALIAN GREEN INFRASTRUCTURE COUNCIL

National Conference 2011

OUR BRAVE NEW WORLD

where metrics drive sustainability

FRI 7 OCTOBER 2011

InterContinental
Melbourne The Rialto

www.agicconference.com

AGIC

AUSTRALIAN GREEN INFRASTRUCTURE COUNCIL

Australian Green
Infrastructure Council
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www.agic.net.au

A MESSAGE FROM THE CHAIR

Following a recent presentation on Climate Change Action, I was asked “why should we bother doing anything about it when China and India are doing nothing?” This is more often put to us as a statement when politicians and talkback radio hosts argue against Australia taking action on climate change mitigation measures.

It is hard to respond in the face of such denial, but the facts are that both countries are way ahead of Australia, the US, and Canada in terms of action that in the long term will mitigate the effects of GHG pollution. I've seen this myself on visits to China in 2006, and 2007, on behalf of a previous Federal Government where I found that the implementation of energy efficiency measures, and renewable energy projects were well ahead of any similar considerations in Australia. China is currently the world's largest manufacturer of solar photovoltaic (PV) cells. Today over 100 million homes in China have solar hot water installed, and the country has just introduced a single national feed-in tariff for domestic solar PV installations. Wouldn't that be nice if implemented here in Australia? Practically every new high rise building in Beijing flaunts LEED Platinum rating signs.

And, India is not far behind.

It is naturally pleasing then that governments and industry in both countries are watching closely the evolution of our AGIC Sustainability Rating Scheme for infrastructure. At recent conferences both here and overseas, I have made presentations on, and discussed how our scheme will work and how we might assist with the introduction of similar schemes in SE Asia and elsewhere. Both Doug and I have also been approached by government officials, and industry representatives from Malaysia, China, Taiwan, and India expressing keen interest in the AGIC scheme. Infrastructure is forecast to grow at phenomenal rates in both China and India to support booming populations and rapidly emerging economies. Of course, the demand for energy is also booming and simply cannot be met without reliance on traditional GHG emitting generation technology.

SE Asian countries are looking at either adapting the AGIC scheme, or developing a similar scheme in their countries. Discussions are also continuing with the New Zealand Green Buildings Council, and NZ Council for Infrastructure Development (NZCID) with a view to trialing the AGIC scheme in that country.

The coming completion and roll out to market of the AGIC Sustainability Rating Scheme could not be more timely or opportune. A National Launch of our scheme is scheduled during February 2012 at Parliament House in Canberra. State launch events are planned to follow soon after the National Launch.

The efforts of our dedicated volunteers will soon be rewarded as our scheme begins to transform infrastructure in Australia (and elsewhere) towards greater sustainability outcomes, more efficient use of resources, and better economic performance.

I am delighted to welcome David Singleton to the AGIC Board. David is Arup's Global Planning Leader based in Melbourne and brings a wealth of global infrastructure experience to the table. David was until earlier this year Arup's Global Infrastructure Leader based in London, and is a Past Chairman of Australia's College of Civil Engineers.

In welcoming David, I must also acknowledge the great contribution of Frank Vromans, who stepped down as a Director in early August. Frank's network and his quiet persuasive manner has enabled AGIC to gain significant traction with government agencies.

Best regards,
David



David Hood, Chairman, AGIC

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Australian Green Infrastructure Council

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OUR BRAVE NEW WORLD
WHERE METRICS DRIVE SUSTAINABILITY

TIME IS RUNNING OUT – BOOK NOW!

The 2011 AGIC Conference - Our Brave New World - where metrics drive sustainability, is fast approaching. The conference, to be held on Friday 7th October 2011 at the InterContinental, The Rialto Melbourne is shaping up to be the must-attend conference of the year with the key focus on the infrastructure sustainability rating tool.

The keynote address will be given by Dr Martin Blake, a business sustainability specialist and Executive Chairman of Zero Carbon Solutions. Dr Blake will talk about the global business case for infrastructure sustainability, a hot topic in today's economic landscape. Dr Blake is well qualified to present the business case based on his delivery of corporate social and sustainability programs for the Royal Mail Group in the UK over the past seven years. He created an internationally recognised Corporate Responsibility Program that has won over 75 national and international awards, including the World Mail Awards for Carbon Management and the Carbon Trust Standard.

Professor Kate Auty, Commissioner for Environmental Sustainability Victoria will open the conference and talk about the social, economic and environmental aspects of an ecological sustainable future for Victoria.

Talieh Bentley, Head of Governance and Sustainable Investment, Unisuper Management Pty Ltd will present an asset owners' perspective on the importance of sustainability metrics driving performance.

AGIC Rating Tool category authors and peer reviewers will provide an overview of the tool and outline how it will drive improved performance, risk reduction and contribute to third party reporting on sustainability. State of the art case studies will be presented and Tenix will give an overview of their pilot trial of the tool.

To round off a full and productive day, attendees have the opportunity to network over cocktails in Market Lane at the conference venue.

CONFERENCE SPONSORS

AGIC values and thanks its sponsors

AECOM – a global provider of professional technical and management support services to a broad range of markets, including transportation, facilities, environmental, energy, water and government.

TENIX – a leading delivery partner to owners of gas, electricity, water, wastewater, heavy industrial and resource infrastructure across Australia, New Zealand and the Pacific.

INFOR – a leading provider of business software and services, helping more than 70,000 customers in 164 countries improve operations and drive growth.

MWH – a global engineering, construction, technology and consulting company, recognised for its leadership in water, wastewater, infrastructure development and environmental management.

ARUP – a global firm of designers, planners, engineers, consultants and technical specialists offering a broad range of professional services. Sustainability is fundamental to service delivery.

REGISTRATION IS SIMPLE

Visit the AGIC website <http://www.agicconference.com/index.html> and click on the Registration tab. The Early Bird special closes on Friday 9th September 2011. AGIC members can take advantage of the early bird price until the conference commences.

Why not advantage of what Melbourne has to offer and have an extended weekend? Visit <http://www.visitvictoria.com/Events.aspx> and <http://www.visitmelbourne.com/> for further details.

WELCOME TO NEW BOARD DIRECTOR



David Singleton BSc MEngSc FTSE HonFIEAust FICE
Global Leader: Planning, Arup
Director and Group Sustainability Director, Arup

David Singleton has experience in leading the growth and development of the global business of Arup in 40 countries. His career has spanned executive leadership as CEO and Chairman of Arup Australasia [1996-2004] and global roles as Chairman of Arup's global Infrastructure business [2004-2011] and Global Leader of Arup's Planning business [from April 2011]. He was a founding member of the Arup Group Board, where he was responsible for the strategic leadership and growth of the global organisation over a decade [2001-2011].

Currently a Director of Standards Australia Ltd, his previous non-executive experience includes: Member, Advisory Board, University of Cambridge Program for Sustainability Leadership; Member of Living with Environmental Change Strategy Board, UK; Chair, Australian Construction Industry Forum; Director, Cooperative Research Centre for Construction Innovation; President and Chair, Association of Consulting Engineers Australia [now Consult Australia].

SUSTAINABILITY RATING SCHEME PILOT TRIALS UNDERWAY



After trying to realign the busway to accommodate this 30-year old footbridge, the Eastern Busway Alliance decided to move, restore and reuse the bridge to ensure parents and children continued to have access to the local school during construction.

The AGIC Assessment team will meet with the project teams for two day workshops in the next couple of weeks. It is an exciting time for all involved as we get to see how the tool works on real projects.

Round 1 Pilot Trials have commenced with two projects – the Logan Water Main - a 4.5 km water main (developed by the Logan Water Alliance – Allconnex Water, Tenix, Parsons Brinckerhoff and Cardno) and the Eastern Busway - Tunnels, flyovers and on ground busway (developed by the Eastern Busway Alliance – Qld Dept of Transport and Main Roads, Leighton Contractors, SKM and AECOM).

The objectives of the pilot trials are to:

- Gain a practical understanding of the assessment process for a variety of project types (project phase, infrastructure type, location).
- Recognise 'gaps' in the AGIC rating scheme and overlaps between categories as they are identified.
- Update the rating scheme to address any issues.

The pilot trial project teams have started using the draft rating tool to complete a self-assessment. The AGIC Assessment team will meet with the project teams for two day workshops in the next couple of weeks. It is an exciting time for all involved as we get to see how the tool works on real projects.

The assessment team for round 1 of the pilot trials consists of Rick Walters, AGIC Technical Manager; Fin Robertson, John Holland Sustainability Manager – Southern Region; Reanna Harper, Arup Sustainability Consultant; Angela Reidy, Sustainability Consultant; and Caroline La Fontaine, Director Quessentia Consulting.



Safelink project

Successful projects in Round 2

Project	State
Tarago Reservoir Filter Upgrade	VIC
CityLink	VIC
Eastern Tertiary Alliance	VIC
Springvale Road Rail Separation	VIC
Toorourrong Reservoir Upgrade	VIC
Enlarged Cotter Dam (ECD)	ACT
Glenfield Junction Alliance	NSW
Kingsgrove to Revesby Quadruplication	NSW
Inner West Busway along Victoria Rd	NSW
Broadwater Parklands Stage 1 and 2 works	QLD
Northern Busway (RCH to Windsor)	QLD
Great Eastern Highway Upgrade (Belmont) Kooyong Rd to Tonkin Highway	WA
Great Eastern Highway/ Roe Highway Interchange	WA



Pilot trial participants sharing information

Round 2 Pilot Trials

The Expression of Interest process for Round 2 pilot trials closed recently. Round 2 trials will kick off in October and be completed before the end of the year.

A panel of AGIC assessors and verifiers will assist with the review of self-assessments in Round 2 of the pilot trials.

Rating Scheme Weightings

The weighting and scoring process in any rating tool is vitally important to ensure the proper degree of importance is given to the wide range of aspects addressed. AGIC has engaged GHD to assist us to develop a weighting methodology which will be executed by the end of the year. We will be seeking stakeholder input in the coming months to establish robust weightings for the tool.

Draft Tool Release and Feedback

AGIC plans to release a draft version of the rating tool by the time of our National Conference on 7th October. This will be the start of a stakeholder comment period and AGIC is inviting feed-back on the draft version of the tool. The feedback will be taken on board, along with the results of the pilot trials, in finalising the scheme, ready for launch in February 2012.

CIEAM AND AGIC COLLABORATIVE RESEARCH

The Cooperative Research Centre for Infrastructure and Engineering and Asset Management (CIEAM) at QUT in Brisbane has funded a significant research project in close collaboration with AGIC.

This project focuses on the operations and maintenance components of infrastructure for the effective delivery of sustainability outcomes in asset management. There will be significant interaction between CIEAM researchers and the AGIC team responsible for the development of an integrated framework for sustainability assessment in infrastructure delivery and operational management.

The CIEAM research will not only underpin the operational component of the AGIC scheme, but will also assist in assessing how it is performing in the transformation of the infrastructure industry for more sustainable outcomes.

This project will research and develop resources (metrics, decision support tools, techniques and training packages) to optimise the performance of infrastructure owners and operators by incorporating sustainability as one of the key elements of asset management and operation.

The project will focus on:

- scientific validation of the social, environmental, and economic performance measurement and assessment systems that will assist AGIC and industry with the development of a nationally consistent sustainability framework and rating scheme for the operational performance of infrastructure;
- providing resources and education to facilitate climate adaptation in asset management; and
- researching the need for, and developing decision support tools, techniques and training packages that will enable infrastructure managers to deliver more sustainable outcomes from the operation of their assets.

The rating scheme for sustainability performance measures developed by AGIC, will also be incorporated into an evolving Asset Management Capability Maturity Model (AMCaMM). This will facilitate the integration of sustainability as a mainstream consideration in business decisions and industry priorities.

CIEAM and AGIC hold regular industry workshops with a view to sharing research outcomes and potential benefits.

AGIC plans to test a pilot version of its rating tool in the latter part of 2011. CIEAM will assist AGIC to develop and deliver industry training sessions for AGIC members, and industry on how to apply the tool in their organizations.

The CIEAM project team includes industry and academic professionals from Queensland University of Technology, Brisbane, in Engineering, Asset Management, Urban Design, Architecture, Sustainability and Economics. The team also includes post-graduate thesis work in mathematical modeling and systems analyses that will provide asset managers with decision support resources to facilitate high sustainability ratings in infrastructure operation, maintenance and upgrading.

The project team is lead by AGIC Chairman, and QUT Adjunct Professor, David Hood (davidahood@mac.com), supported by QUT Professor of Infrastructure Management, Arun Kumar (arun.kumar@qut.edu.au).

The CIEAM research will not only underpin the operational component of the AGIC scheme, but will also assist in assessing how it is performing in the transformation of the infrastructure industry for more sustainable outcomes.

THANK YOU LAURA RABY



Laura Raby, Principal Consultant, Ecolateral has been a stalwart volunteer of AGIC for more than three years. Due to her work commitments Laura is no longer able to continue in her role as Volunteer Coordinator and AGIC would like to thank Laura for her contribution and achievements.

Laura was responsible for the development of the Volunteer Handbook and was the first point of contact for many AGIC volunteers placing them in working groups that would be of interest to them. She was a vital interface between the CEO, Working Groups and Volunteers and quickly identified who required support and ensured this occurred. She was responsible for volunteer inductions and ensuring volunteers were enjoying their placement and that they were recognised for their work.

Thank you Laura. AGIC looks forward to staying in touch through future events.

VOLUNTEER PROFILE



Jane Scanlon
Senior Consultant Sustainability,
Manidis Roberts
and PhD candidate,
University of Western
Sydney

When Jane joined the AGIC team:

I have been an advocate of AGIC since the early days, but joined the team in an official capacity in 2010. Manidis Roberts is an organisational foundation member.

What her role encompasses:

I am a member of the Technical Support Working Group, and a peer reviewer of AGIC's pilot tool, categories 1.1 – 1.3 (purchasing and procurement, management systems and decision making). I have also advocated AGIC's activities at conferences nationally and internationally, and with clients.

What motivated Jane to join AGIC:

I specialise in sustainability management during infrastructure project delivery. I believe that AGIC's rating scheme has excellent potential to drive outstanding performance in Australia's infrastructure industry. It will also help to recognise and reward innovators in this field. I therefore wanted to help shape the scheme, and be involved with like-minded and passionate people as part of the AGIC team.

Where she works:

Manidis Roberts

NEW MEMBERS



Opus is a leading international multi-disciplinary consultancy. Our people are at the forefront of award-winning and innovative projects. We are a global company providing excellent solutions to a wide range of clients.

Today, Opus has around 2300 staff in offices and laboratories throughout Australia, Canada, the United Kingdom and New Zealand.

MICHAEL CHIU

Michael has been welcomed as an Individual Member of AGIC and has an interest in infrastructure sustainability.

SLR CONSULTING AUSTRALIA PTY LTD



SLR is an environmental consultancy that specialises in the energy, mining & minerals, waste management, planning & development, infrastructure and industrial sectors. We also provide expert sustainability advice and project management support that spans all of these sectors.

The most interesting project on which Jane has worked:

I have worked on a number of infrastructure projects developing and implementing sustainability management approaches. One of the most interesting projects I have worked on in this capacity is the Gold Coast Rapid Transit project.

Favourite past time is:

Horse riding and travelling.

Favourite holiday destination:

Most places between San Francisco and Vancouver – love the west coast!

Favourite food:

Pad Thai or anything Thai for that matter.



ROADS & HIGHWAYS

**Hilton Kuala Lumpur Hotel, Malaysia
10th – 12th October 2011**

AGIC's Chairman David Hood will be giving a keynote address at this year's Roads & Highways conference in Malaysia. The conference is focussed on achieving sustainability and capitalising on investment, social and commercial opportunities by examining conceptual and technological advancements for future development. Delegates can choose sessions across three streams.

First and Second Day Conference Streams:

Stream I	Private Public Partnerships & Financing Initiatives
Stream II	Sustainable Design & Construction
Stream III	Tolling & Intelligent Transportation Systems

Third Day Workshop - InfraPro: Infrastructure Project Management

This workshop will provide you with strategic skills to manage your infrastructure projects effectively to enhance your ROI and bottom lines.

For all PMP's attending this conference, 14 PDU's can be claimed (see PDU handbook).

*** All AGIC members are entitled to a discount of 10% when registering with Ms. Esther.**

Please quote EN-AGIC during registration.

* For further details and brochures, please contact:

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<http://www.roadshighways-lse.com/agic>

AGIC AGM

The AGIC Annual General Meeting will be held in November 2011 with the date to be confirmed. Under the AGIC Constitution, three Directors positions will become vacant. The incumbent Directors are available to stand for re-election. AGIC members will receive a notice of meeting prior to the AGM.

AGIC RATING SCHEME LAUNCH

DATE CLAIMER: 21st February 2012 – National Launch of the AGIC Infrastructure Sustainability Rating Scheme, Parliament House, Canberra.

Sponsorship opportunities are available for the launch of the AGIC Rating Scheme – February 2012. Please contact AGIC's CEO, Doug Harland for details – धारलंद@agic.net.au

PROFILE YOUR RESEARCH, STUDIES AND REPORTS IN A NEW JOURNAL

In April this year, QUT/BEE staff announced a new Emerald journal called the Smart and Sustainable Built Environment (SASBE) will be launched in 2012.

SASBE's editorial scope covers a wide spectrum of multidisciplinary issues, and will provide publication opportunities for many researchers. Three issues will make up the inaugural volume. The Issue 1 deadlines has closed, but for Issue 2 the submission date is Monday 5th December 2011. QUT Professor Jay Yang is SASBE Editor-in-Chief. Industry case studies and reports are most welcome. For more information visit SASBE's website: <http://www.emeraldinsight.com/sasbe.htm>

AGIC OUT AND ABOUT

July	
13th	Presentation to Chinese Delegation by AGIC, City Smart, Green Cross
14th	CIEAM project presentation (Update on research into AGIC's rating scheme)
25th	Presentation by CEO at TechTalk Conference, Darwin
August	
2nd	Presentation by Clayton Utz – Current issues for Mining Projects in Queensland
4th	Presentation by Chairman, David Hood at the QUT Sustainability Seminar, Brisbane
4th	Presentation by Scott Losee, AGIC Board Director at the Healthy Cities Conference, Noosa
23rd	Attendance at the Roads Australia Forum, Brisbane
24th	Attendance by Doug Harland at the CEDA Forum, Brisbane
30st	Presentation by Doug Harland at the High Speed Rail Conference, Sydney
31st	Presentation by Doug Harland at the Sustainable Government Conference, Melbourne



Doug Harland, CEO, AGIC

FROM THE DESK OF THE CEO

Population growth coupled with severe congestion arising in all Australian Cities and the many emerging environmental and biodiversity challenges have in my view captured the attention of most business leaders in the infrastructure sector and there is a genuine momentum in this sector to conduct business activity in a better and more sustainable way.

When one looks critically at Australia's ageing infrastructure and considers the current investment needed is in excess of \$600 billion to update the old and provide the new, the enormity of the infrastructure funding challenge in this large country with its small population is put into perspective.

The current record investment in infrastructure from all levels of Government and the private sector remains insufficient to meet the huge financial challenge Australia faces in providing up to date fit for use and well maintained sustainable infrastructure. User pays concepts have not been well received to date and where introduced the viability of some major projects has been put at significant risk.

The sale of government assets has unleashed some new funding and the options even here are now reducing, resulting in many now looking enviously at the healthy (hopefully remaining so in the current global uncertainty) superannuation funds. These funds are risk adverse and in general, seek modest returns, and it is my view value for money criteria and consistency of financial return on projects needs to have a strong measure of certainty before these purse strings will loosen. Whole of life costing increases in importance as owner operators seek to avoid high outgoings and maintenance costs. These post commissioning costs place a further financial burden on infrastructure owners and can be unexpectedly high as experienced in recent extreme weather events.

One necessary consideration in an investment portfolio for a new infrastructure project is an understanding of the sustainability credentials of the proposed project. AGIC's Board is proud to announce the national infrastructure sustainability rating tool will be available to greatly assist decision making in this high stakes area following its national launch in February 2012.

An organisation involved in the investment, design, construction or operation of infrastructure has the potential to benefit greatly from the use of the scheme. A culture of continuous improvement and innovation based on assessed and responsible risk can be platformed on the national sustainability framework the AGIC scheme provides. AGIC's Technical Manager provides an update on the authorship and test trials.

Congratulations to AGIC's Chairman, David Hood for being named in the top 100 Sustainability Leaders selected by ABC Carbon. Leaders were selected from six continents and include Nobel prize winners, engineers, scientists, architects, designers, artists, and CEOs of international companies. The list also includes representatives from NGOs, institutes, universities or businesses.

The AGIC Board is planning a few surprises for the national launch and events in each State and the Northern Territory are in planning.

It is an exciting and busy time for AGIC, and on behalf of the Board I thank all our members for their support during the three year journey and the massive effort by all the willing volunteers.

I look forward to catching up with our stakeholders at AGIC's National conference in Melbourne in October and please ensure AGIC's membership renewal gets a high priority in the accounts department.

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THANK YOU PHILLIPS GROUP



Left to right: David Hood, Stephanie Paul and Doug Harland

Phillips Group, a leading communication consultancy headquartered in Brisbane was recently thanked for its contribution to AGIC in its formative years. Phillips Group provided significant pro-bono communication and marketing support to AGIC from 2008 – 2010. AGIC Chairman David Hood and CEO, Doug Harland recently presented Phillips Group Managing Director Stephanie Paul with a plaque as a gesture of thanks.

CONGRATULATIONS

Kirsty McInnes, our AGIC northern division representative was named finalist in the 'Professional Engineers' category of the Institute of Engineers as a result of her outstanding contribution to the world of engineering. Congratulations Kirsty from AGIC.



AUSTRALIAN GREEN INFRASTRUCTURE COUNCIL

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FOUNDATION MEMBERS

