

## Escaping Silos...

Through our research, the Society for Sustainability and Environmental Engineering (SSEE) conference committee has discovered that engineering's excitement and passion about sustainability extends to a commitment to understanding what is going on in the broader industry.

**What is unique is the level of excitement around sustainability when we are action-oriented as well as looking outside the engineering industry to *Escape the Silo!***

SSEE 2011 Conference contends that only by 'escaping silos' of traditional frameworks is it possible to implement the sustainable outcomes that full-scale industry collaboration can deliver. 'Escaping Silos' offers a unique opportunity to effect change and through engagement, demonstrate leadership in the implementation of sustainability.

## More than a Conference

'Escaping Silos' will showcase pragmatic examples of actions that have overcome change resistance and the elements that contributed to the breakthroughs.

The Queensland (Qld) SSEE conference committee recently hosted a series of workshops in the lead up to their 2011 international conference to engage with the market. The workshops attracted over 100 key industry experts including CEO's; Government Officials; Engineers; Planners; Architects; and Academics. The workshops identified five key themes impacting the engineering sustainability leadership potential and, further developed, could lead to a very real sustainable 'leap forward'.

- **Education as a foundation** - acquiring formal and long term sustainability skills;
- **Socioeconomic imperatives impacting sustainability** – measuring wellness;
- **Integrated solutions** – practical learning in cross disciplinary teams;
- **Leadership Engineering** – influencing stakeholders and broader society; and
- **Overcoming resistance** - structuring conversation and pragmatic action around change.

The conference will adopt this general framework to take a closer look at what is influencing the way we undertake and execute projects – and through this how we shape our industrial and social communities.

## From the Chair

**What are our societies missing in our sustainability vision towards the future? What would the next generations have liked you to have done this decade? And how are you contributing to making it happen?**

Following on from the 2009 SSEE International Conference 'Solutions for a Sustainable Planet', planning has begun for the next biennial conference to be held in Queensland in October 2011.

As the peak Australian forum for sustainability, the 2011 SSEE International Conference will be a platform event for sustainability executives and practitioners, engaging engineering, science, management and related disciplines. Inspired by the WorldCafe© networking style,

the 2011 SSEE International Conference aims to harness the power of conversation for enhanced business, environmental, ethical and social value.

Through the lens of human to earth systems linkages, a variety of sustainability strategies, models, partnerships and actions will be showcased. In particular, local and global issues of interconnectedness across professions, industry sectors and communities will be explored.

A diverse and enthusiastic organising committee for the 2011 SSEE International Conference is busy working on setting up the framework for the conference and gathering excellent key note speakers. We are also organising a series of conversations leading up to the Conference. These conversations will discuss the sustainability trends that are shaping our industries and communities, as well as the opportunities that can be harnessed to build robust green economies.

The first one of such conversations was the *Sustainability Vision Workshop - A way forward for 2011*, held in Brisbane, Wednesday 10<sup>th</sup> March 2010. The purpose of the workshop was to canvas and absorb the views of key thinkers whose approaches and actions are part of our global direction on sustainability, the *Sustainability Vision Workshop* used innovative techniques to aggregate, filter and connect participant ideas and conceptual frameworks.

The second conversation was workshop directed towards young professionals titled *Future Directions in Sustainability* which was held on 19 May 2010. The theme of this workshop was *How can future generations work together to share a sustainability vision*. A shared vision of an attractive future within the constraints of sustainability principles promotes innovation and creative tension in our efforts to initiate a journey from our current unsustainable reality to a desired sustainable state.

The workshops were seeking proactive contribution to establish key sustainability themes coming up to 2011 and to assist us in defining key directions for the SSEE International Conference. Some of the themes identified are to be discussed in this blog.

Lastly, in alignment with the collaborative and participatory approach of the conference, the SSEE 2011 Conference Organising Committee is very much interested in your feedback and opinion. Also, please do not hesitate to contact us at any time with provocative ideas and valuable insights to help make this event a success.

**Gloria Vega**

*Chair of SSEE 2011 Conference Organising Committee*

# Escaping Silos - SSEE 2011 International Conference

24 - 26 October 2011, Brisbane Convention and Exhibition Centre, Brisbane, Australia



http://www.ssee2011conference.com/

## DAY 1 - MONDAY 24 OCTOBER 2011

|        |  |   |  |  |
|--------|--|---|--|--|
| 7:00   | OPENING CEREMONY BREAKFAST (M4)<br><i>Sponsored by Origin</i>  |   |  |  |
| 9:00   | KEYNOTE SPEAKER (M3)<br><u>Annie Leonard, Author of <i>The Story of Stuff</i>, United States</u>   |   |  |  |
| 10:15  | Conference Sustainability, Lara Harland, SSEE Conference Committee (M3)  |   |  |  |
| 10:45  | Morning Tea (Mezzanine Foyer)  |   |  |  |
|        | <b>Integrated Solutions (M3) - Sponsored by GHD</b>  | <b>Socio-Economic Context (M1)</b>  | <b>Education (M2)</b>  | <b>Overcoming Resistance (M4)</b>  |
| 11:05  | 31 <a href="#">Do YOUR Boots Getting Muddy?</a><br>Mr Glenn A Hedges, Thiess Pty Ltd   | 45 <a href="#">Embedding sustainability targets in public transport construction</a><br>Mr Fil Cerone   | 27 <a href="#">Sustainable Engineering and Curriculum Design in Undergraduate Engineering Education</a><br>Mr Simon W Cavenett, Deakin University                  | 75 Workshop: <b>Awaking the Dreamer</b><br>Mr Deane Belfield, ECO2Sys            |
| 11:30  | 35 <a href="#">Measuring Sustainable Communities</a><br>Mr David K Fox, AECOM  | 23 <a href="#">Sustainability in the Construction Industry: Waste management in regional areas</a><br>Ms Pamela Tummers, Bechtel Australia  | 21 <a href="#">Implementation of industry sustainability metrics in a final year undergraduate design project</a><br>A/Prof Margaret C Jollands, RMIT University   |  |
| 11:55  | 76 <a href="#">Breaking down silos: Sustainable greenfields development</a><br>Mr Michael Kane, ULDA   | 4 <a href="#">Understanding and Modelling Sustainable Behaviour in Office Environments: A Case Study on Corporate Express</a><br>Ms Ezgi Erdogan Yilmaz, University of New South Wales  | 13 <a href="#">Engineering Professional Performance to meet Community Expectations</a><br>Mr Ian Dart, Warren Centre for Advanced Engineering                      |  |
| 12:20  | Lunch and Poster Viewing (Mezzanine Foyer)<br>SSEE AGM   |   |  |  |
| 13:20  | PLENARY SPEAKER (M3)<br><u>Carol Boyle, Director, International Centre for Sustainability Engineering and Research, University of Auckland</u>     |   |  |  |
|        | <b>Integrated Solutions (M3)</b>   | <b>Socio-Economic Context (M1)</b>  | <b>Education (M2)</b>  | <b>Overcoming Resistance (M4)</b>  |
| 13:50  | 14 <a href="#">Improving Sustainable Outcomes In Major Projects</a><br>Mr Casey de Pereira, KBR  | 37 <a href="#">Beyond tree-planting: Corporate Social Responsibility in Rural and Regional Australia</a><br>Mr William J Fraser, Aquafocus  | 61 <a href="#">Environmental Engineering at Monash University: History, Status and Sustainability in Engineering Education</a><br>Dr Gavin Mudd, Monash University | <a href="#">Workshop: Code Red - A call to action</a><br><u>Mr Steve Posselt</u> |
| 14: 15 | 41 <a href="#">Collaboration between designer and technologist</a><br>Mr Ian G Jones, FIEAust  | 33 <a href="#">Finite fossil fuel resources as an upper constraint to global warming impacts</a><br>Dr James D Ward, SA Water Centre for Water Management and Reuse / School of Natural and Built Environments, University of South | 18 <a href="#">Emerging Environmental Innovations in Infrastructure</a><br>Mr Glenn A Hedges, Thiess   |  |
| 14: 40 | 77 <a href="#">Benefits of an Integrated design and approvals approach</a><br>Mr David Gamble, GHD   |   | 24 <a href="#">Environmental Sustainability Education – towards a minimum</a><br>Dr Ian Craig, University of Southern Queensland                                   |  |
| 15:05  | Afternoon Tea (Mezzanine Foyer)  |   |  |  |
| 15:25  | <u>Day 1 Question and Answer Panel Discussion (M3)</u><br><i>Silos! What silos?</i>  |   |  |  |
| 16:55  | Close of Day One Proceedings   |   |  |  |
| 19:00  | Pre-Dinner Drinks (M4 Foyer)   |   |  |  |
| 19:30  | CONFERENCE GALA DINNER (M4)<br><u>Ms Amanda McKenzie, Australian Youth Climate Coalition</u><br><i>Entertainment provided by My Cerulean Heart</i> |   |  |  |

# DAY 2 - TUESDAY 25 OCTOBER 2011

## KEYNOTE SPEAKER (M3)

[Paul Gilding, Author of \*The Great Disruption\*, Australia](#)

8:30

|      | Integrated Solutions (M3)   | Leadership (M1)  | Education (M2)   |  |
|------|---|--|--|--|
| 9:00 | 56 <a href="#">Environmental advantages of a planning led alliance</a><br>Ms Tanya Reedman                                      | 47 <a href="#">Are We Meeting Our Moral Obligations?</a><br>Mr Errol K George, LinkWater               | 66 <a href="#">Dealing with a time imperative and uncertainty, in going beyond 'business as usual'</a><br>Dr Cheryl Desha, Queensland University of Technology |  |
| 9:25 | 43 <a href="#">Integrated Reporting - emerging global best practice in TBL reporting</a><br>Mr Hugh F Grant, Net Balance        | 36 <a href="#">Collaborative change in the property industry</a><br>Dr Anne L Kovachevich, Cundall     | 78 <a href="#">What is co-knowledge and why should engineers be interested?</a><br>Dr Helen Fairweather, University of Sunshine Coast                          |  |
| 9:50 | 1 <a href="#">A Safety and Mission Critical Systems Approach to Global Sustainability</a><br>Mr Andrew Wilford, Bond University | 54 How change will happen: a short history of human sustainability for engineers<br>Mr Richard Cassels | 6 <a href="#">The impact of professional silos on sustainable housing outcomes</a><br>Ms Wendy F Miller, Queensland University of Technology                   |  |

10:15

Morning Tea (Mezzanine Foyer)

|       | Integrated Solutions (M3)   | Overcoming Resistance (M1)  | Integrated Solutions (M2)   | Leadership (M4)  |
|-------|---|---|---|--|
| 10:35 | 12 <a href="#">Is it safe to cross the road? Roads Connecting Queensland...and its Habitat</a><br>Miss Susan N Scott, Department of Transport and Main Roads  | 26 <a href="#">Experience with AGIC Quick Check – first steps in applying sustainability rating to Australian infrastructure</a><br>Mr Scott P Losee, AECOM Australia Pty Ltd | 46 <a href="#">Facilitating Sustainable Planning Decisions in an Alliance Environment</a><br>Mr Kirby Morrison, Hunter Water Corporation  | 9 <a href="#">Workshop: Creating Change that Sticks! - Sustainable Change</a><br><a href="#">Ms Alexandra L Meldrum, AGSM / UNSW</a> |
| 11:00 | 28 <a href="#">Solar thermal energy alternatives and their application to water heating and air cooling in the meat processing industry</a><br>Mr Steven C Goh, and Dr Ian Craig, University of Southern Queensland | 44 <a href="#">Models and metaphors in overcoming resistance to Climate Change science</a><br>Dr Karey L Harrison, University of Southern Queensland                          | 67 A national Sustainability rating system for Business.<br>Mr Deane Belfield, ECO2Sys  |  |
| 11:25 | 50 <a href="#">Solutions that Integrate: re-invigorating the potential of silos</a><br>Ms Jenni Goricanec   | 79 <a href="#">Effective countering of climate misinformation</a><br>Mr John Cook, University of Queensland Global Change Institute   | 80 <a href="#">Engineering and management barriers to implementing sustainability / water management in the mining industry</a><br>Ms Nadja Kunz, Centre for Water in the Minerals Industry |  |

11:50

Lunch and Poster Viewing (Mezzanine Foyer)

12:50

## Plenary Speaker (M3)

[Krista Milne, Manager of Sustainability, City of Melbourne, Australia](#)

|       | Integrated Solutions (M3)  |  | Integrated Solutions (M2)   | Leadership (M4)   |
|-------|--|--|---|---|
| 13:20 | 16 <a href="#">Springvale Road Rail Alliance Sustainability Reporting</a><br>Mr Ross Wissing, and Ms Melissa Griffith, Kellogg Brown and Root Pty Ltd                |  | 25 <a href="#">Sustainable Roads – an Achievable Goal?</a><br>Dr David S Thorpe, University of Southern Queensland  | 42 <a href="#">Workshop: Global Green Energy Hub</a><br><a href="#">Mr Colman Ridge, Director Greenfest and Director Colman Ridge Presents, Australia</a> |
| 13:45 | 19 <a href="#">A Sustainable Decision Framework for Maintaining Engagement Between Corporations and Community</a><br>Mr Fadi Kotob, Working 4 A Sustainable Future   |  | 68 <a href="#">Rapid estimation of rainwater yield throughout Australia and review of Queensland rainwater harvesting operating policy</a><br>SSEE 2010 National Student Award Winner<br>Benjamin Taylor, University of Southern Queensland |   |
| 14:10 | 20 <a href="#">A Numerical Methodology based on the Triple Bottom Line Approach (the power of measurement)</a><br>Miss Jessica L A Holz, Multitech Solutions Pty Ltd |  | 81 <a href="#">Evaluating the Factors Affecting Corrosion in Drinking Water Distribution Systems</a><br>Jonathan Ham, James Cook University<br>2011 SSEE National Student Award Winner  |   |

14:35

Afternoon Tea (Mezzanine Foyer)

14:55

## Day 2 Question and Answer Panel Discussion (M3)

*Which way out?*

16:25

## Closing Ceremony - The voice of Our Future Generation (M3)

17:00

Close of Day Two and Conference

# DAY 3 - POST CONFERENCE WORKSHOPS - WEDNESDAY 26 OCTOBER 2011

|       |  |  |   |
|-------|--|--|---|
| 9:00  | <a href="#">AGIC WORKSHOP</a><br>Facilitators: David Hood, Rick walters & Tony Stapledon | <a href="#">SSEE Sustainability Assessment Training</a><br>Facilitator: Vikki Uhlumann | <b>Corporate Sustainability WORKSHOP</b><br>Facilitator to be confirmed |
| 12:30 | Lunch  |  |   |
| 13:30 | <b>AGIC WORKSHOP</b><br>(continued)  | <b>SSEE Sustainability Assessment Training</b><br>(continued)                          | <b>Carbon Markets WORKSHOP</b><br>Facilitator to be confirmed           |

Close of Post-Conference Workshops