

FRIDAY FORUM #20

Sustainable Water for Auckland
Friday, 5 February 2010, 9am – 12 noon
The Conference Centre, 585 Great South Road, Penrose.

Speakers: Dr Deborah Corneby / Gordon Stewart / Craig Brown

The aim of these Forums is firstly to give the speakers the opportunity to outline their understanding of the topic, and secondly, and perhaps more importantly, to provide the background information to resource what is hoped – and expected to be - a stimulating and forthright discussion.

Dr Deborah Corneby is the Water Resources Manager with Watercare Services Ltd, responsible for the management of the water resources to supply municipal water to over 1.2 million people in the Auckland Region. Deborah started her career in the UK water industry working for water supply utilities and then as a management and technical consultant, predominately in water resources and water demand management.

As Chairman of the Auckland Water Advisory Group she worked with representatives from each of the Local Network Operators to lead and facilitate the co-ordination of regionally integrated water demand management initiatives

Deborah presented at this years WaterNZ conference and won the Hynds Paper of the Year - Bronze Award for the paper "Integrated Source Management : A Risk Based Approach". She also recently attended Efficient2009 - the 5th IWA Specialist Conference on Efficient Use and Management of Urban Water (Sydney, Australia) with delegates from around the globe discussing water efficiency best-practice.

Gord Stewart is a director of Aquas Consultants Ltd, a firm specialising in sustainability research, planning and communications. Much of his work focuses on water-use efficiency and conservation, with clients including district, city, and regional councils throughout the North Island. Gord has developed water demand management plans for a number of local authorities and provided support during implementation. Recent projects include water-use assessments of council buildings and planning and facilitating a residential 'Smart Water Use' campaign for all councils in the Waikato region. He is the author of the Water New Zealand publication, *The Case for Demand Management in Council Water Supplies*.

Craig Brown is the director of Craig Brown Consulting, a consultancy specialising in on-site wastewater design work and a preferred supplier to Arhaus Sustainable Design and Build. He is also a manager of ECOplus, a New Zealand company which designs and manufactures greywater recycling systems. He is a senior teaching associate at Massey University's Centre for Ergonomics, Occupational Safety and Health, with particular research interests in Eco Ergonomics (the application of ergonomics in the pursuit of more sustainable systems). The ergonomics of water systems is a planned future research topic! Craig also conducts consultancy work in the fields of Work, Health, Sustainability and Water; including work for the Ministry for the Environment. Craig has presented at several water industry conferences on the risks, costs and benefits of water recycling at different system scales. Craig originated the Water Miles concept to highlight the energy consumption related to water service provision and maintains the www.watermiles.org blog site.

Sustainability Forums

The NZSSES hold regular forums aimed at exploring different engineering and science sectors and their approach to sustainability. The forums are morning sessions and comprise brief presentations from guest speakers followed by a facilitated discussion.

It is hoped that problems with understanding and implementing sustainability principles will be identified and discussed.

Topics to date:

- *Forum #19 – Conservation v Mining* (October 09)
- *Forum #18 – Sustainable Air Quality for Auckland* (Sept09)
- *Forum 16 – Auckland: Sustainable Transport* (July 2009)
- *Forum 15 – Auckland: Complexity, Innovation and Decision* (May 2009)
- *Forum 14 – Auckland: Municipal Three Waters* (April 2009)
- *Forum 13 – Christchurch: Blueprints for Sustainable Infrastructure Conference Papers* (March 2009)
- *Forum 12 – Auckland: Sustainable Housing* (Sept 2008)
- *Forum 11 – Christchurch: Strategies for Canterbury Water* (Aug 2008)
- *Forum 10: Auckland: Sustainable Electricity* (July 08)
- *Forum 9 - Auckland: Biofuels* (May 2008)
- *Forum 8 – Christchurch: Water: Supply and Storage* (March 2008)
- *Forum 7 – Auckland: Future thinking and Frontier Design* (Feb 2008)
- *Forum 6 – Auckland: Carbon Trading* (Oct 2007)
- *Forum 5 – Auckland: Sustainable Transport: Cars and Congestion* (Aug 2007)
- *Talking and Walking Sustainability Conference* (Feb2007)
- *Forum 4: Auckland: Governance and Sustainability* (Sept. 2006)
- *Forum 3 – Auckland: Consultants and Sustainability* (May 2006)

NZSSES

The New Zealand Society for Sustainability Engineering and Science is a Learned Society established to foster the discipline of sustainability engineering and science as the study of complex systems. NZSSES provides training and information sessions on sustainability through its workshops, seminars, forums and international conferences.

The NZSSES is a Technical Interest Group of the Institution of Professional Engineers of New Zealand and an Affiliated Organisation of the Royal Society of New Zealand.

Forum 20 – Sustainable Water for auckland

Programme –

9am	Welcome and introductions	Dr Carol Boyle Chair NZSSES
9.15 am	<p>Watercare are the bulk water and wastewater service provider for the Auckland region. From 1 November 2010 Aucklanders will receive their water and wastewater services direct from Watercare. This change is part of the broader reorganisation of council and local body services in the region.</p> <p>Deborah will present an overview of the Auckland Region's water supply system: past, present and future. This will include the role demand management has played in reducing per capita consumption and the experiences learned from implementing water efficiency programmes. She will also discuss future water resources planning for the new integrated Super City.</p>	
9.40am	Gord Stewart will briefly consider the 'drivers' for demand management and highlight the key benefits. He'll then review the options available to councils to address customer demand management, including <i>measures</i> that reduce water use and <i>instruments</i> that provide support for this. He will also look at some examples of demand management 'on the ground' in New Zealand and overseas.	
10.05	Craig Brown will briefly discuss the context of why different choices for the future of Auckland's water supply are important from a sustainability perspective (e.g. different levels of carbon emissions, financial and environmental costs arising from alternative supply options). He'll then cover perceived and actual barriers to demand management and on-site systems (such as rainwater tanks, greywater reuse and on-site 'disposal' of wastewater) including a discussion of public health risks and their relationship with system scale. Finally, Craig will present a case study of Yarra Valley Water and a couple of 'bright ideas'.	
10.25	Summary	
10.30	Morning tea (20 minutes)	
10.50	Panel Discussion / Debate / Wrap up	
12 noon	FINISH	

Registration / Information

Fee	<ul style="list-style-type: none"> ○ Free for members of NZSSES ○ \$40 incl. GST for non members
Cancellation policy	<p>Please note a 25% cancellation fee applies to all cancellations.</p> <p>Cancellations made within 48 hours and Non-attendance on the day will incur the full fee</p>
To Register	<i>Email to vicky@nzsses.org.nz</i>