



The Sustainable Engineering Society

...engineering in harmony with ecology

Presents:

War on Waste – Closing the cycle, a zero Waste Economy

Tuesday 3 July 2018

Time:

5:00 pm for

5:15 pm Start

Cost:

Members (SENG, EA, WMAA)

\$15.00

Non Members*

\$45.00

Venue:

Hawken Auditorium

Level 1, 447 Upper Edward Street

Brisbane , Queensland , 4000

*Those without an EA or SENGLog in will need to create an EA account to register. This is a simple process and will only take a minute.

Australians currently produce about [50 million tonnes of waste per year](#), averaging over 2 tonnes per person and it is continually increasing. This session will look at the waste cycle, the current state of the industry and how we can all help reduce the volume of waste produced.

Waste Reduction – Richard Denniss

Richard will deliver an entertaining discussion on how we can reduce waste by distinguishing between consumerism, the love of buying things, which is undeniably harmful to us and the planet, and materialism, the love of things, which can in fact be beneficial.

Reuse – Kali Martin

Kali will discuss the waste streams that are currently being processed by NuGrow and how they are recycled into beneficial products such as compost and soil conditioners. Case studies will be presented demonstrating NuGrow's innovative approach to closing the loop between waste and resources to achieve their vision of healthier environments supporting healthier communities.

Recycling – Georgina Davis

Georgina will discuss the design of Queensland's new landfill levy and also proposed amendments to the current waste management licencing regime in Queensland. Since 2012, she has written extensively on the changing international demand for recyclable materials. She will briefly summarise the new quality guidelines for resources exported to China and what it means for Queensland's waste management and materials recovery sector.

Anaerobic digestion (AD) for energy recovery from organics – Dr. Gareth Forde and Max Barnes

Gareth will talk about how we can generate energy from waste organics and how AD compares to other waste to energy (W2E) options. Implications of the proposed landfill levy will be considered.

Panel Discussion

After the presentations there will be a panel discussion with the speakers.

See over for some information about our speakers.

Drinks and Networking

Please join us for a few drinks and light supper after the presentation (not included in ticket price – pre order on arrival).

The presentation will count as one hour towards your CPD.



Speakers:

Richard Denniss: Chief Economist - [Australia Institute](#)

Richard Denniss is the author of Econobabble and Curing Affluenza, and co-author of Affluenza. He is chief economist at the Australia Institute. He writes for the Monthly, the Canberra Times and the Australian Financial Review.

Kali Martin: [NuGrow](#)

Kali is a dedicated quality management professional with over 10 years' experience in industrial processing. Kali's passion for sustainability has seen her recently join the NuGrow team where her diverse background in manufacturing and waste management is being utilised to further strengthen NuGrow's quality management systems. NuGrow is Queensland's largest organic waste recycler and compost/soils manufacturer and has been an innovator in this industry for the last 15 years. NuGrow is helping Queensland lead the way in a sustainable approach to waste management and land rehabilitation by offering an effective alternative to traditional waste management.

Georgina Davis: [Waste to Opportunity](#)

Georgina is a Doctor of Engineering, Chartered Waste Manager and Chartered Environmentalist (CEnv) with 25 years' international experience. Georgina is the Founder of the Waste to Opportunity Enterprise and holds an Adjunct position at Griffith University. She is a member of the Australian Institute of Company Directors, Certified Member of the Governance Institute of Australia and a Board Member of the Waste Management Association of Australia (WMAA).

Gareth M. Forde: [All Energy Pty Ltd](#)

Gareth is the Principal Engineer at All Energy Pty Ltd, and works in the areas of energy generation and efficiency, process innovation and economic optimization. Gareth has deep industrial experience in the power, bio-fuels, biotech, food and agri-business sectors. A key motivator is to develop circular economy solutions to generate revenue and reduce operating costs via "behind the meter" energy innovations for power, heat, cooling, and waste management.

Gareth is a Registered Professional Engineer Qld in the areas of both Environmental and Chemical Engineering, a Fellow of the Institute of Chemical Engineers and is a Member of the Australian Institute of Company Directors. He also holds a PhD in engineering from Cambridge University (UK), a BE(Chem) from UQ and is an Adjunct Associate Professor at QUT.

Drinks and Networking

Please drinks and supper will be available for purchase (pre order on arrival).

- **Please register by 5pm on Monday 26 June 2017.**
- Please contact info@seng.org.au for any registration queries

REGISTER ONLINE

The presentation will count as 2.5 hours towards your EA CPD.

Join SENG to take advantage of the lower registration costs.

Annual membership costs to join the SENG are provided below (July 2018):

Engineers Australia Members (incl GST)

General - \$112.20
Retired - \$63.80
Student - FREE

Non Engineers Australia Members (incl GST)

General - \$134.20
Retired - \$74.80
Student - FREE

For more information about SENG membership, visit the SENG website at: <http://seng.org.au/membership>

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