



Sustainability Symposium

Green Manufacturing & University/Industry Collaboration

Never Stand Still

Science

International Sustainability Symposium 2015: Green Manufacturing & University/Industry Collaboration Australian National Maritime Museum 3 June 2015, 8.30am – 6.30pm

A key part of the annual World Resources Forum, the 'International Sustainability Symposium:: Green Manufacturing & University/Industry Collaboration' is organised by the SMaRT Centre at UNSW Australia, in association with the Institute for Sustainable Futures at UTS and the World Resources Forum.

UNSW is leading Australia's effort in 'Green Manufacturing' to reduce the environmental burden of waste and enhance the competitive advantage in manufacturing. The Symposium brings together industry and research leaders from across the world to focus on the opportunities associated with increasing resource productivity and innovation in the circular economy and to foster new relationships with industry, government, universities, students and external stakeholders.

Speakers: from Sweden, Japan, South Korea, India and Australia will discuss green manufacturing and the future pathways to sustainability within the broader context of green materials and industrial processes. The Symposium will look at new research, industry successes with manufacturers including OneSteel and Brickworks, discuss the outreach of innovative technologies developed at UNSW, including green manufacturing, and the importance of collaboration between universities, industry, government and community and the opportunities for shaping a sustainable future together.

Keynote addresses by Dr Fiona Cameron, Executive Director, Australian Research Council; Johan Eriksson, Swerea Mefos AB, Sweden; John Barbagallo, Chief Executive Arrium Mining Consumables, Australia; Steve Mouzakis, National Energy & Sustainability Manager, Brickworks; and Dr Yuta Nishina, Okayama University, Japan, will be framed by vibrant Q&A sessions and a Conference wrap-up lead by Stephen Beaman, EPA NSW, that will ask the question of all participants: 'Where to from here?'

Jointly organised by:



	International Sustainability Symposium, ANMM, Darling Harbour, Sydney
8:30 – 8:50	Registration and Arrival Coffee
8:55 – 9:15	Welcome: Angelos Frangopoulous, CEO Sky News Australia
	Opening Session
	Session Chairs: Angelos Frangopoulous, CEO Sky News Australia; Scientia Professor Veena Sahajwalla, UNSW Australia; and Stephen Beaman, Director Resource Recovery Branch, EPA NSW
9:15 – 9:30	Peter Noble, Vice-President, UNSW Australia
9:30 – 9:50	Keynote address: Dr Fiona Cameron, Executive Director, Australian Research Council Title: University / industry collaboration
9:50 – 10:10	Keynote address: John Barbagallo, Chief Executive Arrium Mining Consumables Title: Green steel and the journey with UNSW over the past 10 years
10:10 – 10:30	Keynote address: Steve Mouzakis, National Energy & Sustainability Manager, Brickworks Title: Benefits reuse recycle materials within building products
10:30 – 10:45	Q&A
10:45 – 11:20	Morning Tea
	Session Chairs: Steve Mouzakis, Brickworks, and John Barbagallo, Arrium
11:20 – 11:40	Keynote address: Johan Eriksson, Swerea Mefos AB, Sweden Title: Industrial material recycling – the Swedish perspective
11:40– 12:00	Dr James Tickner, Senior Research Scientist, CSIRO Australia Title: Putting a value on waste – a mining approach
12:00– 12:20	Paul O’Kane, OneSteel Title: Sustainable EAF steelmaking through the use of polymer technology
12:20 – 12:40	Dr Ivan Cole, Chief Research Scientist, CSIRO Australia Title: Detoxification of metallic coatings and new metal fabrication processes
12:40 – 13:00	Dr Aditya Rawal, UNSW Mark Wainwright Analytical Centre Title: Structure of pyrolytic carbon derived from biomass and synthetic polymers
13:00 – 13:15	Q&A
13:15 – 14:15	Lunch
	Session Chairs: Prof. Paul Munroe, UNSW Australia and Daniel Miles, OneSteel
14:20 – 14:40	Keynote address: Dr Yuta Nishina, Okayama University, Japan Title: Mass production of 2-dimensional nanocarbons from natural graphite
14:40 – 15:00	Dr Gemma Rius, Nagoya Institute of Technology, Japan Title: Science, technology and innovation standpoint of nanotechnology
15:00 – 15:20	Dr S.C. Roy, Indian Institute of Technology Madras, India Title: Recycling carbon dioxide through photo-catalysis: a small step but giant leap towards sustainability
15:20 – 15:40	Dr Hewitt Park, Urban Mine Department of Korea Institute of Geoscience and Mineral Resources, South Korea Title: Recycling of waste gold trainings by pyrometallurgical approach
15:40 – 16:00	Dr Rian Dippenaar, University of Wollongong, Australia
16:00 – 16:15	Russ Martin, Global Product Stewardship Council, Australia Title: The past, present and future of e-waste product stewardship
16:15 – 16:30	Q&A
16:30 – 17:00	Afternoon Tea
17:00 – 17:30	Panel Discussion – Where to from here?
	Session Chairs: Professor Veena Sahajwalla, UNSW Australia, and Associate Professor Damien Giurco, UTS
	Panel Members: Mathias Schlupe, WRF; Stephen Beaman, EPA NSW; Daniel Miles, OneSteel, Ian Tooze, Arrium and Tony Domanski, Reverse E-Waste
17:30 – 18:30	Networking session