

Powering the change... x SYMPOSIUM - Fri 17 Nov x

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**POWERING THE CHANGE  
TO A CIRCULAR ECONOMY**

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**PROGRAM**

OVERVIEW  
DAY ONE - WED 15 NOV  
DAY TWO - THUR 16 NOV  
**SYMPOSIUM - FRI 17 NOV**  
TRIPS AND TOURS

**ACADEMIC SYMPOSIUM  
- FRIDAY 17 NOVEMBER 2017**

TONSLEY INNOVATION DISTRICT, ADELAIDE, SOUTH AUSTRALIA

**REGISTRATION OPEN**  
8.00AM

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**WELCOME  
AND KEY  
NOTE**  
9.00-10.30AM

**WELCOME**

Welcome to **Powering the change to a circular economy** academic symposium from our academic partners.

**METALLIC PRODUCTS FROM E-WASTE: GREEN  
MICROFACTORIES**

**PROFESSOR VEENA SAHAJWALLA**  
ARC LAUREATE FELLOW  
DIRECTOR, CENTRE FOR SUSTAINABLE MATERIALS  
RESEARCH AND TECHNOLOGY (SMART)

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**RESEARCH AND TECHNOLOGY (SMART)**  
**SCHOOL OF MATERIALS SCIENCE AND ENGINEERING,  
UNSW**

This presentation details developing elegantly simple, small scale green technologies – called micro-factories – that will enable businesses and communities to recover resources from e-waste, almost anywhere in the world. This unique microfactory model brings the solution to the problem for the first time.

The world's landfills are packed with useful elements and materials like carbon, hydrogen and various metals and oxides that our industries usually source from virgin raw materials.

Much of the vast wealth of resources embedded in waste cannot be easily recovered using conventional recycling methods, because of the increasing complexity of the products and materials we throw away. Conventional recycling is limited and costly because it requires the arduous sorting, collection and transport of waste – as well as expensive, industrial scale processing facilities.

Green microfactories at UNSW, can generate value added metal alloys/nanoparticles (Cu-Sn) via selective thermal transformation of e-waste. This approach creates an unprecedented new opportunity to transform e-waste into cost-effective sustainable resources via green microfactories.

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**SPEAKERS**

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★ Bkmarks Sv to Mndly UOM eJmIs Tela Tuesday CSchlr IEABioE DTU DTU Library GTr MnlS TAC DTU DK AU SA Circ Eco BioE AU 2017 KBH Lib SJR Other bookmarks

**BREAK**  
10.30-11.00AM

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**PARALLEL SESSIONS**

<p><b>IMPROVING OUR FOOD SYSTEMS: FROM FARM TO FORK AND BACK AGAIN</b> 11.00AM-12.30PM</p> <p><b>Ms Tracey Colley</b> PhD Candidate DTU (Denmark) 'Circular economy in the meat processing sector – using life cycle assessment as a screening tool'</p> <p><b>Dr Melita Jazbec</b> Research Consultant Institute for Sustainable Futures, University of Technology Sydney (UTS)</p>	<p><b>MAKING THE TRANSITION: FROM THEORY TO PRACTICE</b> 11.00AM-12.30PM</p> <p><b>Dr Melissa Edwards</b> Senior Lecturer, Business School University of Technology Sydney (NSW) 'Transitioning to a circular economy: extending the role of sustainability officer'</p> <p><b>Mr Mark Dean</b> Researcher, Australian Industrial Transformation Institute Flinders University (SA)</p>	<p><b>MEASURING THE CIRCULAR ECONOMY: MACRO-APPROACHES TO EVALUATE CHANGE</b> 11.00AM-12.30PM</p> <p><b>Ms Heather Bailey</b> Economist Econsearch - a division of BDO (SA) 'What if South Australia's economy were "circular" in 2030? Using an environmentally extended input-output model in a "what if" analysis to estimate the potential social and environmental impacts across an economy'</p>
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<p><b>Mr Simon Wright</b> PhD Candidate Institute for Sustainable Futures, University of Technology Sydney (NSW) 'The role of intermediaries in advancing the circular economy - a regional perspective'</p>	<p><b>Flinders University (SA)</b> 'The circular economy in a digital world'</p> <p><b>Mr Aaron Davis</b> PhD Candidate UniSA (SA) 'From rhetoric to reality: theoretical perspectives on realising the circular economy'</p>	<p><b>Mr Jacob Fry</b> PhD candidate ISA, School of Physics University of Sydney (NSW) 'Use of physical input-output tables provide to assess progress towards the 'circular economy': case study on material flow in construction.'</p> <p><b>Ms Simran Talwar</b> PhD Candidate Macquarie Graduate School of Management Macquarie University (NSW) 'Circular economy indicators for India: a scientific macro assessment of five circular economic measures, and their comparative performance to global industrial hubs'</p>
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**LUNCH**  
12.30-1.30PM

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**PARALLEL SESSIONS**

<p><b>CIRCULAR ECONOMY IN OUR BUILT ENVIRONMENT</b></p> <p>1.30-3.00PM</p> <p>Mr Paul Matthew PhD Candidate, School of Architecture, Faculty of Engineering, Architecture and IT University of Queensland (QLD) 'Upcycling Australia's older apartment buildings'</p> <p>Dr David Ness</p>	<p><b>AND WHAT IF WE JUST LOOKED AFTER THINGS? CARING AS A CIRCULAR STRATEGY</b></p> <p>1.30-3.00PM</p> <p>Dr Eleni Kalantidou Senior Lecturer Griffith University (QLD) 'Handling e-waste with care: 'recycle-reuse-share-repair' as instigators of a pro-sustaining psychology'</p> <p>Dr Alison Gwilt Researcher Sheffield Hallam</p>	<p><b>SOCIETAL APPROACHES TO CHANGING OUR ECONOMY</b></p> <p>1.30-3.00PM</p> <p>Dr Robert Crocker Deputy Director, China Australia Centre for Sustainable Urban Development UniSA (SA) 'From the throwaway society to circular economy'</p> <p>Ms Kristy Mate Program Director Interior Design, School of</p>
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<p>Dr David Ness Associate Professor, School of Natural and Built Environments UniSA (SA) 'The property and asset boom: the elephant in the circular room?'</p> <p>Ms Ruchini Jayasinghe PhD Candidate School of Natural and Built Environments UniSA (SA) 'Role of the government in a circular economy: the case of construction waste management and reverse logistics'</p>	<p>Sheffield Hallam University (UK) and UniSA (SA) 'Caring as a tool for extending the life of clothing'</p> <p>Ms Jackie Leaver Senior Lecturer Sheffield Institute of Arts Sheffield Hallam University (UK) 'Keeping materials in use - a role for DIY in the circular economy'</p>	<p>Design, School of Architecture &amp; Design University of Tasmania (TAS) 'Shopping scapes, rhizomes and social capital in the circular economy'</p>
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**BREAK**  
3.00-3.30PM

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**CLOSING PLENARY** Closing key note session to be announced soon.  
**3.30-5.00PM**

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**CLOSE**  
**5.00PM**

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**ACKNOWLEDGEMENT**  
Thanks to our International Academic Committee for peer review and other support.

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