

The provisional Conference Program below is a guide to subject areas for presentations. Papers may be accepted that relate to topics other than those specifically mentioned provided they relate to some aspect of 'sustainable cities'. The program is subject to revision as conference plans evolve.

## Day 1 Wednesday 18 October 2017

08.00 - 08.45	Arrival, Registration, Refreshments	
8.45 - 8.55	<b>Venue: Innovation Hub Lower level</b> Conference opening (conference chair)	
8.55 - 09.10	Opening Ceremony	
9.10 - 9.30	Keynote speaker #1 Government / Policy perspective	
9.30 - 9.50	Keynote speaker #2 'State of the Climate'	
9.50 - 10.15	Short film	
10.15 - 10.45	Morning Tea	
	<b>Stream 1</b> <b>Venue: Innovation Hub Lower level</b>  Theme: Sustainable infrastructure for a net zero GHG economy.	<b>Stream 2</b> <b>Venue: Auditorium, level 31</b>  Theme: Resilience and community capacity building.
10.45 - 12.30	Energy systems. <ul style="list-style-type: none"> <li>• Increasing renewable power generation and grid integration issues;</li> <li>• Utility scale storage e.g. batteries, pumped hydro;</li> <li>• Electricity market reform;</li> <li>• Future evolution of national power grid;</li> <li>• Virtual and micro grids; distributed energy.</li> </ul>	Adaptation measures <ul style="list-style-type: none"> <li>• Engineering to address emerging risks e.g. precipitation, runoff, wildfire, extreme weather;</li> <li>• Coastal engineering for prospective sea level rise, flooding;</li> <li>• Urban 'heat islands' - mitigation measures e.g urban forests.</li> </ul>
12.30 - 13.15	Lunch	
13.15 - 14.45	Transport evolution - Community scale <ul style="list-style-type: none"> <li>• Light and heavy rail innovation;</li> <li>• Electric cars, autonomous vehicles;</li> <li>• Smart roads;</li> <li>• Traffic and congestion management, both technical and regulatory;</li> <li>• Electric and autonomous vehicles;</li> <li>• Vehicle share systems.</li> </ul>	Community responses, including case studies. <ul style="list-style-type: none"> <li>• Public health, emergency services;</li> <li>• Issues for local government;</li> <li>• Warning services and public awareness programs.</li> <li>• Personal and local mobility, cycling, e-bikes and scooters, infrastructure systems and safety.</li> </ul>
14.45 - 15-10	Afternoon tea	

15.10 - 16.40	<p>Infrastructure and built environment</p> <ul style="list-style-type: none"> <li>• Strategy and planning in an energy, climate and investment constrained economy;</li> <li>• Monetising externalities (emissions, pollution and resource depletion) to fund transitions;</li> <li>• Sustainability and efficiency ratings, standards, regulations and commitments to drive innovation and change.</li> </ul>	<p>Waste and recycling</p> <ul style="list-style-type: none"> <li>• Plastics;</li> <li>• Building materials including wood, metals glass masonry;</li> <li>• Rubber and other automotive waste;</li> <li>• E-waste, metals, plastics.</li> <li>• The 'circular economy' (technical and biological)</li> </ul>
16.45 - 17.30	Day 1 Panel session , Q&A Wrap up	
17.30 - 21.00	<p>Pre dinner drinks Conference dinner Entertainment tbd</p>	

Day 2 Thursday 19 October 2017		
08.30 - 09.00	Arrival, Registration, Refreshments	
09.00 - 09.05	<p><b>Venue: Innovation Hub Lower level</b> Welcome to day 2 (conference chair)</p>	
09.05 - 09.25	Keynote speaker #3 Industry perspective	
09.25 - 09.45	Keynote speaker #4	
09.45 - 10.05	Film or Skype presentation by international expert	
10.05 - 10.30	Morning Tea	
	<p><b>Stream 1</b> <b>Venue: Innovation Hub Lower level</b></p>	<p><b>Stream 2</b> <b>Venue: Auditorium, level 31</b></p>
10.30 - 12.30	<p>Low GHG emission building and construction materials</p> <ul style="list-style-type: none"> <li>• Low emission alternatives to Portland cement;</li> <li>• Low emission metals production technologies;</li> <li>• Structural timber in domestic and commercial applications.</li> <li>• HVAC high efficiency refrigeration gases - Montreal protocol compliance.</li> </ul>	<p>Large scale community-driven energy efficiency retro fitting and successful case studies.</p> <ul style="list-style-type: none"> <li>• Manufacturing;</li> <li>• Commercial buildings, high density residential including e.g HVAC;</li> <li>• Domestic buildings and housing;</li> <li>• Telecommunications and IT, data centres etc.</li> </ul>
12.30 - 13.15	Lunch	
	<p><b>Venue: Innovation Hub Lower level</b></p>	
13.20 - 14.00	Conference round up with expert panel Q&A	
14.00 - 14.10	Acknowledgements, Conference close (Conference chair)	