

Conference Agenda 5&6 December

Day 1 - 5th Dec

09:00 Registration and welcome refreshments

10:00 Welcome Prof. Ashutosh Tiwari, Deputy Vice President for Innovation, and Prof. Ian Reaney, TFI Network+ Director

10:30 Prof. Julian Allwood, University of Cambridge, *Transforming the Foundation Industries to have absolutely zero emissions by 2050*

11:10 Dr. Alessandra Parisio, University of Manchester, *Data-driven optimisation framework for assessing energy and emission saving potentials in foundation industries*

11:25 Prof. Jon Willmott, University of Sheffield, *Introducing high-temperature hyperspectral electronics to the foundation industries*

11:40 Dr. Michal Drewniok, University of Leeds, *Element-based mapping of waste and by-product material flows for industrial symbiosis,*

11:55 Panel discussion and Q&A

12:30 Lunch

Afternoon session Chair Prof. Susan Bernal-Lopez

14:00 Dr. Alastair Sanderson (Unilever) & Dr. David Bott (SCI), *The foundations of the post 2050 chemicals industry*

14:30 Dr. Alessia Andrews, University of Manchester, *Developing biocomposite materials as low-carbon alternatives to ceramic tiles*

14:45 Dr. Ronak Janani, Sheffield Hallam University, *High temperature optical fibre coatings for next generation gas emission monitoring,*

15:00 Dr. Matthew Hobbs, The University of Sheffield, *Accurate emissivity characterisation of metals from near infrared (NIR) to long wave infrared (LWIR),*

15:15 Dr. Amal Hajjaj, Loughborough University, *Micromachined based multi-Sensing solution toward digitalisation of Foundation Industries*

15:30 Panel discussion and Q&A

16:00 Award ceremony and drinks reception

19:00 Arrivals for conference dinner, starting at 19:30 at the Mercure Hotel

Day 2 - 6th Dec

08:45-09:15 Coffee

Morning session Chair Prof. William Sampson

09:15 Dr. Lorraine Ferris, Henry Royce Institute: *Decarbonisation: How to do everything, everywhere, all at once.*

09:45 Prof. Rachel van Duyvenbode (University of Sheffield) & Prof. Amanda Crawley Jackson (University of Arts London)- *Equality, Diversity & Inclusion, Future proofing the workforce*

10:15 Prof. Vera Trappmann, University of Leeds, *Can workforce diversity stimulate transformation towards a more sustainable future?*

10:30 Coffee with Panel discussion and Q&A

11:15 Lord Rupert Redesdale, *The politics of carbon and the risks and opportunities to the Foundation Industries*

11:45 Dr. Rebecca Pieniasek, University of Leeds, *Co-designing a goal interdependency method for deciding corporate sustainability strategy*

12:00 Dr. Maria Karafyllia, Nottingham University, *Circular business model innovation in the UK cement, glass, and ceramics industries*

12:15 Dr. Taofeeq Ibn-Mohammed, Warwick University, *Overcoming adoption barriers of next generation processing technologies in ceramic/glass industries*

12:30 Dr. Iñaki Esnaola, University of Sheffield, *Sustainable advanced manufacturing via ML-assisted exploitation of sensing and data infrastructure*

12:45 Panel discussion and Q&A

13:15 lunch

14:30 Panel session Chair Prof. Cameron Pleydell-Pearce - *The Foundation Industries Identity - Successes, challenges and what next for the community?*

15:30 Closing remarks

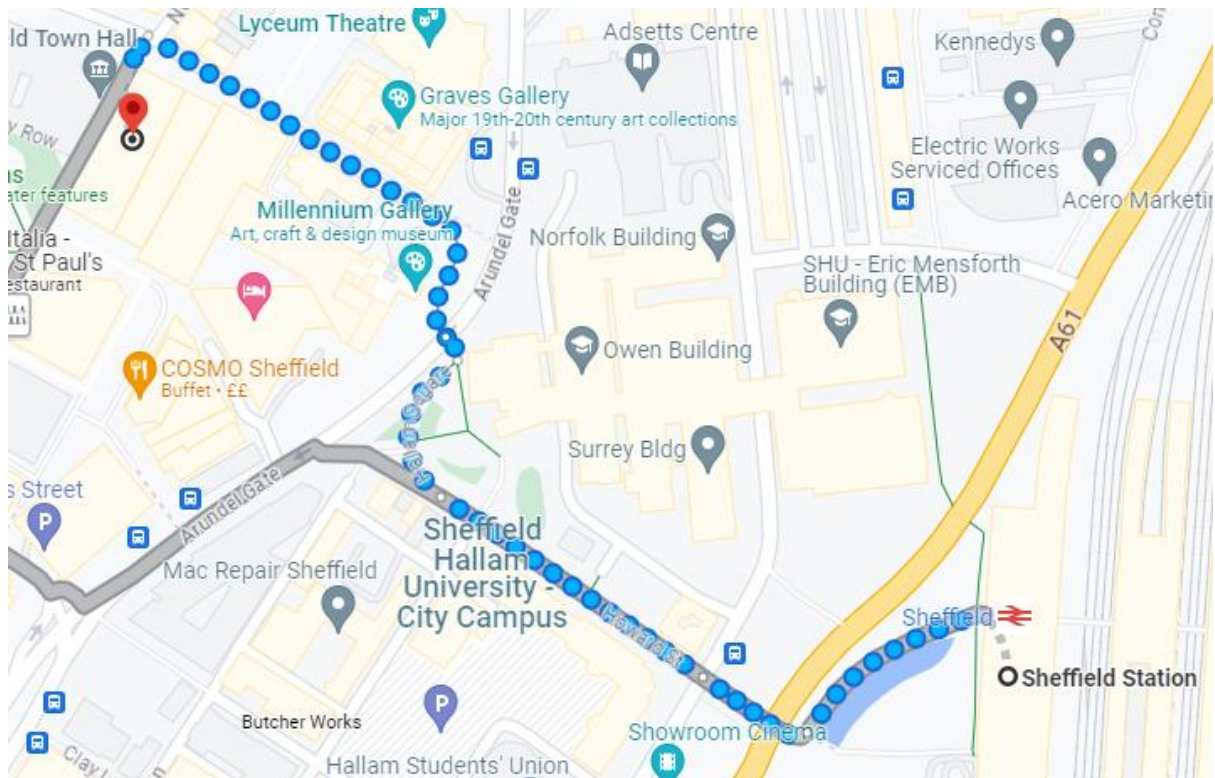
16:00 End of conference

Getting here

Parking Facilities

- Q-Park Charles Street, S1 2NJ (~5-minute walk to the venue)
- Arundel Gate Car Park (Pond Street Entrance), S1 2PN (~7-minute walk to the venue)

If you're travelling by train, it is a ~10-minute walk from the train station.



Venue - Mercure Sheffield St Paul's Hotel & Spa, 119 Norfolk Street, Sheffield City Centre, Sheffield, S1 2JE