Energy demand pathways:
What does the future hold for the built environment?

LoLo Conference 2018 - 13th June 2018 at Nunn Hall (UCL),
20 Bedford Way, WC1H 0AL, London, UK

– Programme (12:00-20:00) –

12:00-13:00  Registration
Tea and coffee, light lunch available

13:00-13:10  Opening address
Sebastian Junemann, Doctoral Researcher, LoLo CDT

13:10-14:10  Oral presentations – Session 1
13:10  Presentation No. 1: Rami El Geneidy, Loughborough University
Review of techniques to enable community-scale demand response strategy design
13:30  Presentation No. 2: Zhikun Wang, UCL
Heat pumps with district heating for the UK’s future domestic heating
13:50  Presentation No. 3: Stephen Watson, Loughborough University
Increased electricity demand from heat pumps, taking user behaviour into account

14:10-14:30  Break

14:30-15:30  Oral presentations – Session 2
14:30  Presentation No. 4: Renjith Jaypalan Nair, Loughborough University
Daylight and thermal performance of three building typologies in Kerala (India)
14:50  Presentation No. 5: Daniel L Wright, Loughborough University
Assessing risk of overheating in UK homes: Impacts on health, energy and design
15:10  Presentation No. 6: Ben Roberts, Loughborough University
What can occupants do to reduce overheating?

15:30 -16:15  Poster Session
Tea and coffee

16:15-17:15  Oral presentations – Session 3
16:15  Presentation No. 7: Duncan Grassie, UCL
An investigation of the feedback and feedforward mechanisms required for crowdsourcing occupant datasets for a UK school stock model
16:35  Presentation No. 8: Patrick Osborne, UCL
Blockchain and the built environment

16:55  Presentation No. 9: Joseph Levodo, London South Bank University,
Energy access cooperation in sub-Saharan Africa: Trade barriers between countries
17:15 – 17:25  **Final break**

17:25 – 17:30  **Closing remarks and intro to keynote**

Sebastian Junemann, Doctoral Researcher, LoLo CDT

17:30-18:30  **Keynote**

Dr Ruchi Choudhary, Reader in Architectural Engineering, University of Cambridge

18:30 – 18:45  **Winners of the best oral and poster presentations**

18:45 – 20:00  **Drinks reception**

**List of poster presentations**

Presentation No. 10: Nittalin Phunapai, De Montfort University

*A feasibility study for integrating the social, environmental and economic life cycle assessment of sustainable building projects*

Presentation No. 11: Rima Alaaeddine, University of Huddersfield

*An integrative machine learning methodology for occupants‘behaviour prediction: An attempt to minimize the energy performance gap*

Presentation No. 12: Diana Martinez-Trejo, Durham University

*Holarchy architecture for P2P Energy trading*

Presentation No. 13: Vinh Le, University of Huddersfield

*Thermal acceptability of people in the hot humid climate of Vietnam and the potential of energy saving*

Presentation No. 14: Hung Thanh Dang, University of Huddersfield

*Studies on thermal environments, comfort perception and energy use in ‘shophouse’ dwellings in Ho Chi Minh City over warm season*

Presentation No. 15: Yaman Aljaghbeer, Keele University

*Investigate the connectivity between energy-related occupants‘ behaviour, facility management operations in the context of different spaces’ functionalities at higher and further buildings*

Presentation No. 16: Yesmeen Khalifa, Keele University

*Integrated resources management for urban sustainability in the global south’s megacities*

Presentation No. 17: Karolis Petruskevicius, University of Manchester

*Intelligent management of demand side heat storage in buildings*

Presentation No. 18: Duncan Grassie, UCL

*An investigation of the feedback and feedforward mechanisms required for crowdsourcing occupant datasets for a UK school stock model*

Presentation No. 19: Rami El Geneidy, Loughborough University

*Review of techniques to enable community-scale demand response strategy design*

Presentation No. 20: Zhikun Wang, UCL

*Heat pumps with district heating for the UK’s future domestic heating*