Institute for Environmental Design and Engineering (IEDE), University College London (UCL), UK
Centre for Virtual Environments, Interaction & Visualisation, University College London (UCL), UK
University Of Nottingham, UK

Syracuse University, U.S.A.
Technical University of Denmark, Denmark
University Of Nottingham, UK
University College London (UCL), UK

will focus on major challenges facing the combined heat, air, moisture and pollutant simulations for the design and operation of sustainable buildings, highlight the most recent progresses, and identify opportunities for further collaboration in CHAMPS research, development and applications. Topics will include:

6. Methods and tools for coordinated and integrated urban and building systems design, building information modeling (BIM), CHAMPS simulation framework, software, and optimisation techniques, common databases of materials, assemblies, building topologies, climates, and real-world versus design performances.
7. Applications of CHAMPS for building systems design and model-based predictive controls.

will provide an overview of IEA-Annex 68 aim and objectives and the progress made to date in each subtask of the project:

1. Defining the metrics
2. Pollutant loads in residential buildings
3. Mode543.52 reg0 6 49 956 g0 00 12 1 05732.0 543.58 0 6 g0 6 Mode543.52 reg0 6 49 97012 72 re W

8:00-8:30	Registration
8:30-10:00	8:30-8:45: Welcome and introduction, Professor Mike Davies, UCL Institute for Environmental Design and Engineering
	8:45-9:30: Overview of IEA-Annex 68 and progress to date, Professor Carsten Rode, Technical University of Denmark (DTU)
	9:30-10:00 Model Validation Data from the NIST Netzero Energy House, Dr Andrew Persily, National Institute of Standards and Technology, USA
10:00-10:20	Coffee Break and Networking
10:20-12:20	10:20-10:50: An overview of current state and future challenges in CHAMPS development, Professor Jensen Zhang, Syracuse University
	10:50-11:20: IBPSA-England presentation (tbc), Professor Malcolm Cook, Loughborough University
	11:20-11:50: The CRI-network model approaches to the analysis of hygrothermal and air quality of indoor panorama, Li Wang, University of Tokyo
	11:50-12:20: Using MatLab, SimuLink and Comsol as CHAMPS platform, Dr Jos van Schijndel, Eindhoven University of Technology
12:20-13:00	Lunch
13:00-15:00	13:00-13:30: Coupled CONTAM/EnergyPlus Modeling of the NIST Netzero Energy House, Dr Andrew Persily, NIST
	13:30-14:00: Coupled heat, moisture, and pollutant transport modelling in EnergyPlus, Dr Jonathon Taylor, University College London (UCL)

CHAMPS 2017 and IEA-Annex 68 General Meeting

The 14th