

FUTURE cities – the challenge of changing urban form

Joint FUTURE/UFM hybrid meeting April 3-4 2023, University of Surrey

(Treetops*, Wates House, Stag Hill Campus)

Monday 3rd April

1200 Lunch

1300 Welcome (Marco Placidi & Zheng-Tong Xie)

1310 **Thomas Vik** (FMI) *Large-eddy simulation of gas dispersion in urban environments* (Chair: Marco Placidi)

1400 Fluid dynamics of Urban Tall-building clUsters for Resilient built Environments (FUTURE) project updates (Chair: Marco Placidi)

- **Alan Robins** (University of Surrey) *An overview of the FUTURE project.*
- **Abhishek Mishra** (University of Surrey) *Wake-scaling behind clusters of tall buildings.*
- **Saad Inam** (University of Southampton) *Wakes and their merging behind tall-building clusters.*
- **Janet Barlow** (University of Reading) *Field observations and modelling of tall building wakes.*

1520 Break

1550 **Valery Masson** (Meteo France) *Hectometric forecasting for the Paris Olympics: the Paris RDP* (Chair: Humphrey Lean)

1650 Discussion about project FUTURE (Chair: Janet Barlow)

1720 Quick-fire talks followed by Poster session (Chair: Steve Herring)

1900 Dinner (30 max, first come first serve)

Tuesday 4th April

0900 **Pietro Salizzoni** (Ecole Central Lyon). *Urban dispersion and the effect of trees* (Chair: Alan Robins)

1000 Invited lectures (Chair: Daniel Hackett)

- **Christina Vanderwel** (University of Southampton) *Scale model experiments for urban aerodynamics and dispersion.*
- **Ruth Shilston** (RWDI) *Looking back of three years micro-climate/wind/thermal comfort guidelines in London.*
- **Jeroen Janssen** (Thornton Tomasetti) *Wind loading on a tall building in a dense city centre: LES vs wind tunnel.*

1100 Break

1120 Invited lectures (Chair: Christina Vanderwel)

- **Dudley Shallcross** (University of Bristol). *A brief overview of the Across-Scale processes in URban Environments (ASSURE) project.*
- **Jian Zhong** (University of Birmingham) *Modelling dispersion of air pollutants at the street scale in the West Midlands using the ADMS-Urban model.*

- **Shanshan Ding** (University of Surrey) *Neutrally- and Stably-Stratified Boundary Layers Adjustments to a Step Change in Surface Roughness.*

1220 Plenary discussion. Five years of UFM: where are we now? (Chari: Maarten van Reeuwijk)

1300 Lunch

* **Venue:** Treetops (Wates House - Stag Hill Campus). A Campus map can be found at:

www.surrey.ac.uk/sites/default/files/2022-08/campus-map.pdf (the map in PDF attached)

Treetops is the top floor of Wates House (see Cafés/Restaurants Stag Hill Campus - Building 8 - Grid E2).

Online meeting link: https://teams.microsoft.com/l/meetup-join/19%3ameeting_ZjAxZWU0ZGEtMmRmYi00Yzc2LTk0ZGQtZGZmYmVjNWUxNThj%40thread.v2/0?context=%7b%22Tid%22%3a%226b902693-1074-40aa-9e21-d89446a2ebb5%22%2c%22Oid%22%3a%22d4bd33aa-2509-4427-af9c-f4576284a5af%22%7d