One-Day Introductory Course

Wind Effects on Tall Buildings

Wednesday 18\textsuperscript{th} November 2015
10am – 4pm

At the

THE INSTITUTION OF CIVIL ENGINEERS
ONE GREAT GEORGE STREET
WESTMINSTER
LONDON SW1P 3AA

20 Spaces Allocated on a First Come Basis
Cost: £125
To Register Please Follow
https://www.ice.org.uk/events/wind-effect-on-tall-buildings

Intended for practicing designers, developers and planners, this course provides an understanding of key wind effects on tall buildings, including;

1) Wind Flows in Urban Areas
2) Aerodynamics of Tall Buildings
3) Pedestrian Comfort in the Built Environment
4) Structural Wind Loads
5) Wind Effects on Cladding Design
Brief outline:

Wind effects are a key design consideration for tall buildings in the UK and many parts of the world. Adverse wind conditions can downgrade the value of a skyscraper, or lead to uneconomical designs. This one-day course will provide a good foundation to anyone who is planning to contribute to the design of tall buildings, including architects, engineers, planners and developers. Presented by experts from industry and academia, the course will start with a discussion of wind flows in urban areas, reviewing boundary layers, gust vs mean speeds, and aerodynamics of tall buildings. This will be followed by an in-depth discussion of pedestrian comfort around tall buildings, which is a topic of vital importance for tall buildings in the UK. Finally, wind loading on structure and façade components will help designers optimize the cost and sustainability of their projects.

Synopsis:

10am- Wind Flows in Urban Areas: Presented by Janet Barlow (University of Reading) and Ender Ozkan (RWDI)

11am- Aerodynamics of Tall Buildings: Presented by Vladimir Fuka (Southampton University)

12pm- Complimentary Lunch

1pm- Pedestrian Comfort in the Built Environment: Presented by Andrew Allsop (Arup) and Rubina Ramponi (Arup)

2pm- Structural Wind Loads: David Hargreaves (University of Nottingham)

3pm- Wind Effects on Cladding Design: Andrew Allsop (Arup) and Giulia Matteoni (Arup)
Tags

Urban Wind Flows, Gust and Mean Winds, Building Aerodynamics, Downdrafts, Vortices
Lawson Comfort Criteria, Wind Mitigation
Structural Wind Loads, Building Accelerations, Occupant Comfort
Peak Gust Pressures, Façade Wind Loads
Natural Ventilation, Wind Energy in Urban Environments