



東京工芸大学・風工学研究拠点・研究集会（2017年3月9日）のご案内

## International Exchange Meeting on Wind engineering from indoor environment to urban area

Hosted by : Wind Engineering Research Center, Tokyo Polytechnic University and Tsinghua University  
Venue : Main building 012 classroom, Tokyo Polytechnic University, Japan  
Date : 9:30~12:00, March 9th, 2017

### Objective

This international exchange meeting focuses on the most recent scientific results on the wind engineering of both outdoor and indoor scale. All the presentations are provided from 3 research subjects, including “The influence of vertical greenery on mansion balcony to indoor thermal environment in sub-tropical climate areas. Part 2: simulation of the reduction of annual heat load by vertical greenery”, “Fast prediction of indoor pollutant dispersion based on the development of low-dimensional reduced-order ventilation models” and “Preliminary investigation on the influence of planning factors on pollutant dispersion within urban areas”, which are all connected by the key word “air movement”. Thus, from this point of view, this meeting will provide a transverse discussion about the air flow from urban scale to indoor scale.

### Program

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09:30 – 09:45	<b>Weirong Zhang (Tokyo Polytechnic University, Associate Professor)</b> Generally review of the joint research and usage at TPU
09:45 – 10:05	<b>Mei-Chen Lu (National Cheng Kung University, Master student)</b> Vertical greenery system applying to CFD and energy consumption simulation.
10:05 – 10:25	<b>Chien-Hsun Lin (National Cheng Kung University, Master student)</b> Evapo-transpiration model for simulation of vertical greenery.
10:25 – 10:45	<b>Fei Xue (Tsinghua University, Ph.D. candidate)</b> Source term estimation of atmospheric contaminant dispersion in urban environment using Bayesian inference.
10:45 – 11:00	<b>Coffee break</b>
11:00 – 11:20	<b>Xuefan Zhou (Huazhong University of Science and Technology, Lecturer)</b> Study on the impact of urban morphology on urban climate in the built up zone.
11:20 - 11:40	<b>Shijie Cao (Soochow University, Associate Professor)</b> The application of Low-Reynolds number turbulence models for indoor ventilation systems.
11:40 – 12:00	<b>Huibo Zhang (Shanghai Jiaotong University, Associate Professor)</b> Effects of Exposure to Temperature Steps at Levels Typically found in Winter on Human.

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