

International Exchange Meeting on Contaminant Dispersion around Human Scale to Building Scale

Hosted by : Wind Engineering Research Center, Tokyo Polytechnic University and IGSES, Kyushu University
Venue : Chikushi Campus, IGSES Kyushu University
Date : January 28-30, 2015

Objective

This international exchange meeting will provide an opportunity for the discussion of most recent scientific results on the contaminant dispersion around human body to building scale. The indoor environment can play a significant role in the transmission of and exposure to various contaminants. In the case of some emerging airborne transmission, such as those caused by influenza virus and tuberculosis virus, the airborne route of transmission is considered to be critically important for evaluating the health risk associated with exposure to contaminants. Thus, this international exchange meeting will provide a place for translating scientific evidence into strategies to direct future research. This international exchange meeting will cover a wide variety of major research topics- related contaminant dispersion. Topics include indoor and outdoor air pollution, computer simulated person, numerical modeling, theory and urban climatology.

Program

January 28, 2015	
16:00 – 22:00	Ice Breaker & Discussion
January 29, 2015	
10:00 – 10:10	Kazuhide Ito (Kyushu University, Japan) <i>Introduction</i>
10:10 – 10:50	Hyunjae Chang (Hongik University, South Korea) <i>Development of energy conservational cooling system for a data center</i>
10:50 – 11:30	Jun-Seok Park (Hanyang University, South Korea) <i>Ventilation in Residential buildings</i>
11:30 – 12:10	Hikaru Kobayashi (Tohoku University, Japan) <i>Study of new dehumidification material and method for desiccant air conditioning system</i>
12:10 – 13:30	Lunch break
13:30 – 14:00	Yoichi Kawamoto (Kyushu University, Japan) <i>Preparing weather data in El Salvador using meso-scale meteorological model WRF for use in micro-scale ventilation analysis</i>
14:00 – 14:30	Alicia Murga (Kyushu University, Japan) <i>Multi-scale Exposure Concentration Analysis in Large Factory Space in El Salvador by CFD Technique</i>
14:30 – 15:00	Sung-Jun Yoo (Kyushu University, Japan) <i>Development of Computer Simulated Person with Thermo-Regulation and Numerical Airway Model</i>
15:00 – 16:00	Coffee break
16:00 – 16:30	Masato Yamashita (Kyushu University, Japan) <i>Numerical Simulation of Airflow, Heat/Moisture Transfer in Human Respiratory System</i>
16:30 – 17:00	Koki Mitsumune (Kyushu University, Japan) <i>Numerical Simulation of Airflow, Heat and Moisture Transfer in Rat Nasal Cavity</i>
17:00 – 17:30	Keiji Kameishi (Kyushu University, Japan) <i>Development of Energy Recovery Ventilator with Demand-Controlled Algorithm</i>
17:30 – 19:30	Dinner break
19:30 – 20:30	Discussion
January 30, 2015	
	Lab tour & Free