

International Workshop on Infectious Disease and Airflows around Human Body

DATE

Feb. 21-22, 2022

Introduction / Objectives

Wind Engineering Research Center (WERC) at Tokyo Polytechnic University was adopted as the Wind Engineering Joint Usage / Research Center (WE-JURC) by the Ministry of Education, Culture, Sports, Science and Technology in Japan. The center is also an international platform in promoting cooperation with domestic and overseas educational / research institutes.

In this workshop, considering the current COVID-19 pandemic situation around the world, we aim to share recent (state-of-art) research findings on infectious disease and indoor airflows and countermeasures of each country. Experts from Japan, China, Australia, Europe will be invited to present keynote speeches.

Short- and long-range transmission of SARS-CoV-2

Prof. Yuguo Li

Department of Mechanical Engineering,
the University of Hong Kong



Will COVID-19 change the way we control airborne transmission of respiratory infections?

Distinguished Prof. Lidia Morawska
School of Earth and Atmospheric Sciences, the
Queensland University of Technology (QUT)



Airflow and airborne diseases transmission characteristics in the microenvironment of a human body

Prof. Naiping Gao

College of Mechanical Engineering,
Tongji University



Keywords and Topics

- ◆ Airborne and Droplet Transmission / Infection
- ◆ Particle sizes of infectious aerosols
- ◆ Control of Indoor Airflow

Keynote Speakers

Countermeasures against the SARS-CoV-2 in built environment

Prof. U Yanagi

Department of Architecture, Kogakuin
University



Ventilation as engineering control measure to reduce COVID-19 airborne transmission – REHVA guidance

Prof. Jarek Kurnitski

Department of Civil Engineering and Architecture,
Tallinn University of Technology



Key droplet sizes mediating the airborne and droplet-borne transmission of respiratory infections

Assoc. Prof. JianJian Wei

College of Energy Engineering, Zhejiang
University



Assessment of exposure to infectious aerosol particles using a respiratory aerosol simulator

Assist. Prof. Masayuki Ogata

Department of Architecture,
Tokyo Metropolitan University



& **Assoc. Prof. Yoshihide Yamamoto**

Department of Architecture,
Tokyo Polytechnic University

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REGISTRATION

https://us06web.zoom.us/webinar/register/WN_h0WZ8G7bSsz6bSurJdnKdzg

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