



Physics of respiratory infections: do we understand it?

Wednesday, January 27, 2021 at 5:00 pm ET

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Topics covered during this webinar:

- Current state of the art of physics of respiratory infections and its application in infection risk management
- Minimizing the risk of airborne infection transmission for any respiratory viruses.
- The economic loss every year caused by acute respiratory illnesses such as colds and influenza.
- The significance of the airborne transmission by inhalation of virus-laden respiratory aerosols that are generated during all human respiratory activities.
- The key role of flow physics in:
 - generation of the virus-laded particles from human respiratory activities,
 - detection and measurements of these particles,
 - what happens to the particles in the air - transport and removal dynamics and deposition of the particles in the respiratory tract and upon inhalation.



Speaker: Lidia Morawska, Queensland University of Technology

Moderator: Mark Jermy, University of Canterbury

Lidia Morawska is a Professor at the Queensland University of Technology (QUT) in Brisbane, Australia, and the Director of the International Laboratory for Air Quality and Health (ILAQH) at QUT, which is a Collaborating Centre of the World Health Organization. Professor Morawska also holds positions of Adjunct Professor, Institute for Environmental and Climate Research (ECI), Jinan University, Guangzhou, China and Vice-Chancellor Fellow, Global Centre for Clean Air Research (GCARE), University of Surrey, UK. She is a co-director of the Australia-China Centre for Air Quality Science and Management. She conducts fundamental and applied research in the interdisciplinary field of air quality and its impact on human health and the environment, with a specific focus on science of airborne particulate matter.

About the CRRG

The COVID Research and Resources Group (CRRG) aims to connect physicists and other scientists through COVID-related research and education efforts. If you would like to join CRRG, visit our website, find our community on engage.aps.org, or email crrg@aps.org and we will connect with you.