April 28, 2020, 1PM UTC

"Filtration and ultraviolet air cleaning in the age of COVID-19"

- Applicability of filtration and air cleaning with respect to COVID-19 exposure
- Potential routes of transmission
- Uncertainties & limitations related to air cleaning approaches
- Use of germicidal ultraviolet (GUV) for infection control in mechanically ventilated spaces
- Demonstrating the efficacy of GUV for reducing the airborne levels of infectious organisms
- Upper-room, ventilation duct, and surface disinfection uses

Speakers

Prof. Jeffrey Siegel, Ph.D., the University of Toronto, Canada

Jeffrey Siegel, Ph.D., is a Professor of Civil and Mineral Engineering at the University of Toronto and a member of the university's Building Engineering Research Group. He holds joint appointments at the Dalla Lana School of Public Health and the Department of Physical & Environmental Sciences. He holds an M.S. and Ph.D. in Mechanical Engineering from the University of California, Berkeley as well as a B.Sc. from Swarthmore College. He is fellow of ASHRAE and a member of the Academy of Fellows of the International Society for Indoor Air and Climate (ISIAQ). His research interests include healthy and sustainable buildings, filtration and air cleaning, ventilation and indoor air quality in residential and commercial buildings, control of indoor particulate matter, the indoor microbiome, and moisture interactions with indoor chemistry and biology. He teaches courses in indoor air quality, sustainable buildings, and sustainable energy systems. Prior to his position at the University of Toronto, Dr. Siegel was an Associate Professor at the University of Texas.

Prof. Shelly L. Miller, Ph.D., Environmental Engineering Program, the University of Colorado Boulder, Colorado, USA

Dr. Miller is a Professor of Mechanical Engineering and faculty in the Environmental Engineering Program at the University of Colorado Boulder, Colorado, USA. Prof. Miller teaches about and investigates urban air quality and works diligently to understand the impact of air pollution on public health and the environment. She is also an expert on indoor environmental quality including air cleaning technologies. Dr. Miller is a member of the Academy of Fellows of the International Society for Indoor Air and Climate (ISIAQ). Dr. Miller has published over 70 peer reviewed articles on air quality, authored a Chapter on Indoor Air Quality in the Environmental Engineering Handbook, is an active scientist on twitter, and publishes open access as often as possible.