

# Centre for Disease Modelling Canada-China Distinguished Lecture Mathematics and COVID-19

## Transmission of respiratory diseases

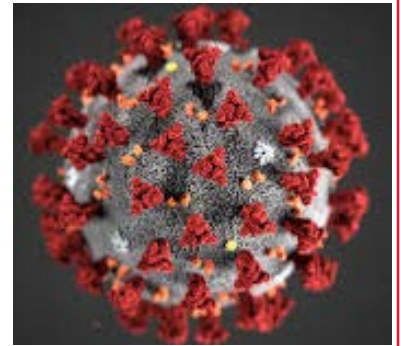
With

### Dr. Lydia Bourouiba

Civil and Environmental  
Engineering, MIT

**Saturday May 16, 2020**

8:30 pm – 9:30 pm (Eastern Time)



**Webinar:** Register at <https://yorku.zoom.us/j/98615589444?pwd=S1JYcVA0R291blBoZzBnRkhDdW56dz09>  
Also see announcement at [cdm.yorku.ca](http://cdm.yorku.ca)

Lydia Bourouiba is an Associate Professor at the Massachusetts Institute of Technology, where she founded and directs the Fluid Dynamics of Disease Transmission Laboratory. Her research leverages advanced fluid dynamics experiments at various scales, biophysics, applied mathematics to elucidate interfacial flow and fluid fragmentation processes driving mixing, transport, and persistence of particles and microorganisms driving multiscale epidemiology and disease transmission in human, animal, and plant populations. Prof. Bourouiba founded the Fluids and Health Conference, creating an international forum for exchange on frontier research and challenges in health, where fluid dynamic concepts are at the core, including infectious diseases and food safety, and related policy. Prof. Bourouiba is the recipient of many awards, including the Tse Cheuk Ng Tai's Prize for Innovative Research in Health Sciences, the Ole Madsen Mentoring Award, and the Smith Family Foundation Odyssey Award for high-risk/high-reward basic science research.

**Panelists:** Julien Arino (U Manitoba), Jacques Belair (U Montreal), Jingan Cui (Beijing U CivilEng&Archit), Meng Fan (Northeast Normal U), Jane Heffernan (York U), Zhen Jin (Shanxi U), Michael Li (U Alberta), Wei Lin (Fudan U), Wendi Wang (Southwest U), James Watmough (U New Brunswick), Yanni Xiao (Xi'an Jiaotong U), Huaiping Zhu (York U)

**Organizers:** Centre for Disease Modeling (CDM), Chinese Society for Mathematical Biology (CSMB)



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