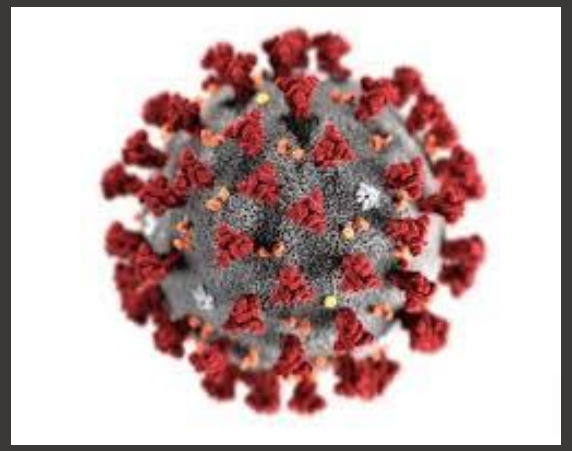
NSERC INDUSTRIAL CHAIR ON DRINKING WATER

CANADIAN WATER NETWORK
RÉSEAU CANADIEN DE L'EAU

POLYTECHNIQUE MONTRÉAL

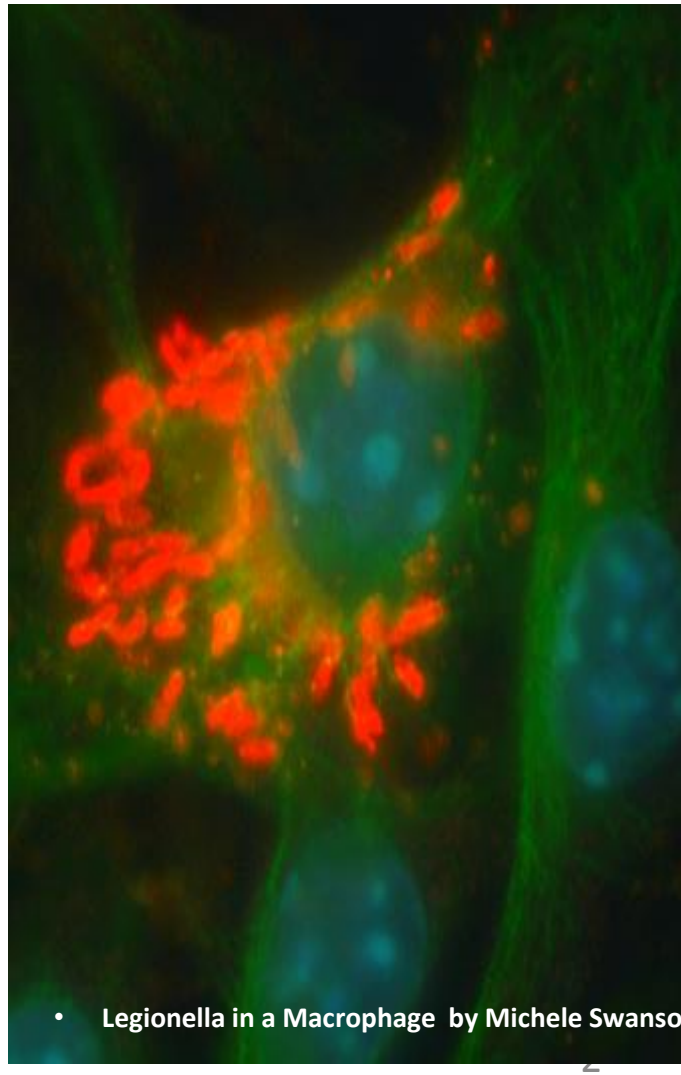


Recommissioning buildings after extended CoVid19 stagnation

Michèle Prévost
Professor and Principal Chairholder

Impact of CoVid19 shutdown on building water systems

- CoVid19 pandemic prompted complete and partial closures of buildings in Canada
- Staggering number of buildings big and small are affected
- Water stagnation in buildings is identified as a potential serious chemical and microbial health concern
  - Lead and Copper
  - Legionella
  - Aesthetic
- Guidance is developing by the hour (PSPC, AWWA, ASHRAE, …)
  - Flushing, disinfection, provide alternative sources of drinking water
- Quebec will be issuing province wide guidance next week



- Legionella in a Macrophage by Michele Swanso

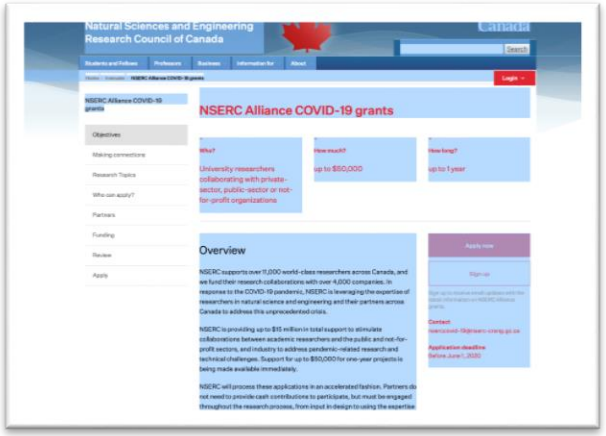
Why is this relevant to municipalities?

- Municipalities own and operate buildings that will need recommissioning
  - Public libraries, recreational, office buildings, etc.
- Recommissioning will require a lot of water
  - Expect significant demand when bans on commercial activities are lifted and schools are reopened
- Decrease of water demand during lock down may require interventions on the municipal DS
  - Flushing to limit red water issues and residual loss
- Utilities can help building recommissioning by adjusting water quality
  - eg: increasing chlorine residuals

Can we learn from this massive recommissioning effort?

Defining a Canadian approach for the safe recommissioning of water systems

1) Define best practice for recommissioning – share information across Canada
2) Conduct case studies of recommissioning across Canada
3) Document costs/benefits from interventions



NSERC Covid funding