

LIAM-IRC-MfPH 2018 Symposium

Structured Population Models: Theory, Numerics and Applications

August 27-29, 2018

LIAM, Kinsmen 277, 8 Chimneystack Road, York University

Chair: Jianhong Wu, **Coordinator:** Kyeongah Nah

Day 1, 27 August

10:30 - 12:00	Dimitri Breda (University of Udine) Lecture 1: <i>Stability of equilibria: the infinitesimal generator approach</i>
	Lunch break
14:00 - 15:00	Laurent Pujo-Manjouet (University Claude Bernard Lyon 1) <i>Language competition: analysis and qualitative simulations of a deterministic age-structured mathematical model</i>
15:00 - 15:30	Thomas Martin (University Claude Bernard Lyon1, York University) <i>Mathematical modeling and study of the impact of PrEP on STIs spread</i>

Day 2, 28 August

10:30 - 11:30	Dimitri Breda (University of Udine) Lecture 2: <i>Stability of periodic solutions: the solution operator approach</i>
11:30 - 12:00	Mahnaz Alavinejad (York University) <i>Coupled systems of renewal equations for forces of infection through an irreducible contact network</i>
12:00 - 12:30	Kiyeon Kim (Hokkaido University, York University) <i>Estimating epidemiological parameters using time series of Tajima's D considering asymptomatic patient</i>

Day 3, 29 August

10:30 - 11:30	Dimitri Breda (University of Udine) Lecture 3: <i>Bifurcation of nonlinear problems: back to ODEs</i>
11:30 - 12:00	Alessia Andò (University of Udine) <i>Collocation methods for the computation of periodic solutions of complex delay systems</i>
12:00 - 12:30	Zachary McCarthy (York University) <i>Modelling foodborne pathogen contamination dynamics in industrial poultry processing</i>
	Closing remark
13:00 - 14:00	Symposium Lunch Executive Learning Center (Seymour Schulich Building)