This workshop is designed to provide graduate students and qualified advanced undergraduates with first-hand experience in industrial research in the mathematical sciences. It will focus on team work to tackle specific projects in mathematical and statistical modelling of industrial processes, with an emphasis on the development of young researchers.

PROBLEMS AND SHORT COURSES:

Problems

1. Stochastic modelling for hydro-electric reservoir management
   - Fabian Bastin - University of Montreal

2. Variable selection problem and statistical prediction for an industrial reactor
   - Derek Bingham - Simon Fraser University

3. Growth of nanoparticles for industrial production
   - Tim Myers - Centre de Recerca Matemàtica, Spain

4. "This party is too big, folks" - Setting room capacities for safety.
   - Nilima Nigam - Simon Fraser University

5. Modelling the performance of rechargeable Li-ion batteries
   - Brian Wetton - University of British Columbia

6. Modelling and optimisation of traffic light systems
   - Chris Budd - University of Bath, UK

ORGANIZERS:

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