

# Modelling and analysis of options for controlling persistent infectious diseases

27 Feb – 4 March 2011

## MEALS

\*Breakfast (Buffet): 7:00–9:30 am, Sally Borden Building, Monday–Friday

\*Lunch (Buffet): 11:30 am–1:30 pm, Sally Borden Building, Monday–Friday

\*Dinner (Buffet): 5:30–7:30 pm, Sally Borden Building, Sunday–Thursday

Coffee Breaks: 2nd floor lounge, Corbett Hall

**\*Please remember to scan your meal card at the host/hostess station in the dining room for each meal.**

## MEETING ROOMS

All lectures will be held in Max Bell 159 (Max Bell Building accessible by walkway on 2nd floor of Corbett Hall). Note that the meeting space designated for BIRS is the lower level of Max Bell, Rooms 155–159. Please respect that all other space has been contracted to other Banff Centre guests, including any Food and Beverage in those areas.

## SCHEDULE

### Sunday: Arrival

- 4:00pm** Check-in begins (Front Desk - Professional Development Centre - open 24 hours)
- 5:30–7:30pm** **Buffet Dinner, Sally Borden Building**
- 8:00pm** Informal gathering in 2nd floor lounge, Corbett Hall  
Beverages and a small assortment of snacks are available on a cash honor system.

### Monday: Disease-control priorities

- 9:00–9:30** Introduction and Welcome by BIRS Station Manager and Workshop Organizers
- 9:30–10:30** *please bring your laptop*: David Price: Introduction to DebateGraph
- 10:30–11:00** **Group photo followed by coffee**
- 11:00–11:30** David Earn: Influenza
- 11:30–12:00** Mark Loeb: Dengue and West Nile
- 12:00–1:00** **Lunch Break**
- 1:00–2:00** Guided Tour of The Banff Centre; meet in the 2nd floor lounge, Corbett Hall
- 2:00–2:30** Joe Tien: Cholera
- 2:30–3:00** Jonathan Dushoff: HIV
- 3:00–3:30** **Coffee Break**
- 3:30–4:00** Vicky Ng: Conjoint analysis as a tool for prioritization of disease control programs
- 4:00–4:30** Amit Hupert: Neglected Tropical Diseases
- 4:30–5:00** Lara Wolfson: WHO priorities
- 5:00–5:30** David Price: Debategraph wrap-up and discussion
- 5:30–7:30** **Dinner Break**
- 7:30–8:30** Informal group DebateGraph session

*Note: On Tuesday through Thursday, informal discussion and DebateGraphing will occur in the main meeting room from 9:00-4:00. Please join these discussions as you wish. Coffee and refreshments will be available in the BIRS lounge every day from 10:30-11:00 and 2:30-3:00*

## Tuesday: Endgame Strategies

4:00–4:15	David Earn: Introduction
4:15–4:45	Olga Krylova: Smallpox: The one we beat
4:45–5:15	John Glasser and Zhilan Feng: Heterogeneity and disease elimination
5:15–5:45	Andrew Hill: TB elimination
5:45–6:00	<i>Discussion</i>
6:00–7:30	<b>Dinner Break</b>
7:30–8:00	Troy Day: Evolutionary issues in disease elimination
8:00–8:30	Ashleigh Tuite: Pertussis: End-game strategies and the importance of loss of immunity to endemicity
8:30–9:00	Martin Eichner: Individual-based modelling
9:00–9:30	David Price: DebateGraph update and discussion

## Wednesday: Economic issues in relation to disease control

4:00–4:15	David Fisman: Introduction
4:15–4:45	David Fisman: Infectious disease persistence and control through an economic lens (externalities, corruption, prediction markets)
4:45–5:15	Beate Sander: The "public good" of infectious disease control in the context of pandemic influenza
5:15–5:45	Amy Hurford: Drug-resistant invasive infections and antibiotic consumption in a hospital network
5:45–6:00	<i>Discussion</i>
6:00–7:30	<b>Dinner Break</b>
7:30–8:00	Maciek Boni: Economic epidemiology of avian influenza control
8:15–9:00	Christina Chan and David Fisman: Economics of STD control and non-control
9:00–9:30	Amy Greer: Health economic considerations in prevention of nosocomial infections: examples from pertussis immunization

## Thursday: Interactions between human behaviour and disease spread

4:00–4:15	Jonathan Dushoff: Introduction
4:15–4:55	Sebastian Funk: Modelling the influence of human behaviour on the spread of infectious diseases
4:55–5:35	Junling Ma: Controlling HIV in IV drug users
5:35–6:00	Jonathan Dushoff: HIV spread and the spread of related beliefs
6:00–6:15	<i>Discussion</i>
6:15–7:45	<b>Dinner Break</b>
7:45–8:15	Mishra: Syphilis persistence
8:15–8:45	Brown: Pathogen-pathogen-pathogen interactions between flu, bacterial pneumonia and <i>C. difficile</i>
8:45–9:30	Group discussion, directions for moving forward

## Friday: Discussion and wrap-up

9:30–10:30	Group discussion and evaluation of DebateGraph
10:30–11:00	<b>Coffee Break</b>
11:00–12:00	More group discussion and evaluation of DebateGraph

*5-day workshops are welcome to use BIRS facilities (2nd Floor Lounge, Max Bell Meeting Rooms, Reading Room) until 3 pm on Friday, although participants are still required to checkout of the guest rooms by 12 noon.*