



Functional Differential Equations November 6 – 11, 2004



MEALS

Breakfast (Continental): 7:00 – 9:00 am, 2nd floor lounge, Corbett Hall, Sunday – Thursday

*Lunch (Buffet): 11:30 am – 1:30 pm, Donald Cameron Hall, Sunday – Thursday

*Dinner (Buffet): 5:30 – 7:30 pm, Donald Cameron Hall, Saturday – Wednesday

Coffee Breaks: As per daily schedule, 2nd floor lounge, Corbett Hall

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

MEETING ROOMS

All lectures will be held in **Max Bell 159** (Max Bell Building accessible by bridge on 2nd floor of Corbett Hall). Hours: **6 am – 12 midnight**. Please 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

Saturday, November 6

16:00 Check-in begins (Front Desk – Professional Development Centre - open 24 hours)

17:30-19:30 Buffet Dinner, Donald Cameron Hall

20:00 Informal gathering in 2nd floor lounge, Corbett Hall

Beverages and small assortment of snacks available on a cash honour-system basis.

Sunday, November 7

7:00-8:30 Breakfast, 2nd floor lounge, Corbett Hall

8:30-8:45 Opening Remarks, Max Bell 159

8:45-9:30 O. Diekmann, Physiologically structured population models

9:30-10:15 K. Hadeler, Where to put delays in population models, in particular in the neutral case

10:15-10:45 Coffee Break, 2nd floor lounge, Corbett Hall

10:45-11:30 H.-O. Walther, Bifurcation of periodic solutions with large periods in a delay differential equation.

11:30-1:00 Lunch Break

1:00-2:00 Tour of The Banff Centre will be offered to all participants and their guests. Those interested should meet in the 2nd floor lounge.

2:00-3:00 Informal Discussions

3:00-3:30 Coffee Break, 2nd floor lounge, Corbett Hall

3:30-4:45 Informal Discussions

4:45-5:30 T. Erneux, Multiple time-scale techniques applied to delay differential equations modeling lasers and mechanical systems.

Monday, November 8

- 8:30-9:15: E. Litsyn, On differential equations with state dependent impulses.
9:15-10:00 T.Gedeon, A delay model of nitrogen catabolite repression gene regulatory circuit.
10:00-10:30 Coffee Break
10:30-11:15 B. Lani-Wayda, Stability and instability criteria for Kaplan-Yorke solutions of $x'(t) = -\alpha f(x(t), x(t-1))$.
11:15-12:00 S. A. Campbell, TBA.
12:00-1:30 Lunch Break
1:30-2:15 W. M. Ruess, Differentiability of the solution semigroup for nonlinear partial differential delay equations.
2:15-3:00 X. Zou, Propagation and its failure in a lattice delayed differential equation with global interaction.
3:00-3:30 Coffee Break
3:30-4:15 Y. Kyrychko, Dynamics of a stage-structured model on an isolated finite lattice.
4:15-5:00 E. Braveman, Positive solutions of equations with harvesting.

Tuesday, November 9

- 8:30-9:15 Tibor Krisztin, Global stability in Wright's equation.
9:15-10:00 J. Sieber, Dynamics of delayed relay systems.
10:00-10:30 Coffee Break
10:30-11:15 T. Faria, Special solutions for linear functional differential equations and asymptotic behaviour.
11:15-12:00 J. Mallet-Paret, Limiting profiles for state-dependent problems.
12:00-12:15 Group Photo; meet on the front steps of Corbett Hall
12:15-1:30 Lunch Break
1:30-5:30 Informal Discussions/Explore the Area

Wednesday, November 10

- 8:30-9:15 Y. Chen, On a network of 3 neurons with delayed coupling.
9:15-10:00 T. Humphries, TBA.
10:00-10:30 Coffee Break
10:30-11:15 A. Skubachevskii, Some classes of functional differential equations with partial derivatives
11:30-1:30 Lunch Break
1:30-2:15 Pietro-Luciano Buono, Versal unfoldings for linear retarded functional differential equations.
2:15-3:00 S. M. Verduyn Lunel, Forward-backward functional differential equations and holomorphic factorization.
3:00-3:30 Coffee Break
3:30-4:15 J. Wu, TBA
4:15-5:00 M. Mackey, Understanding steady state and dynamic behaviour in molecular and gene control systems.

Thursday, November 11

- 7:00-9:00 Breakfast
Informal discussions
11:30-1:30 Lunch
Checkout by 12 noon.