Workshop on Control of Infinite Dimensional Systems Waterloo, July 25-29, 2005 (All talks will be in DC1304. Breaks and lunches in DC1301)

Monday

9:45 AM - 10:15AM	REGISTRATION
10:15 AM - 10:30 AM	OPENING REMARKS (Dean T.F. Coleman)
Session Chair	Kirsten Morris
10: 30AM - 11:15 AM	Birgit Jacob Minimum-Phase Infinite-Dimensional Second-Order Systems
11:15 AM - 12:00PM	Denis Matignon Optimal design and approximation for infinite-dimensional linear systems by means of diffusive representations: a series of examples
12:00 PM - 1:30 PM	LUNCH
Session Chair	John Burns
1:30 PM - 2:15 PM	Hans Zwart
	Dirac Structures and boundary control systems
2:15 PM - 3:00 PM	
2:15 PM - 3:00 PM 3:00 PM - 3:25 PM	Dirac Structures and boundary control systems Yann Le Gorrec Dirac structures for infinite-dimensional systems: motivation and
	Dirac Structures and boundary control systems Yann Le Gorrec Dirac structures for infinite-dimensional systems: motivation and definition on Hilbert spaces

Tuesday

Session Chair 8:30 AM - 9:15 AM	Birgit Jacob Holgar Teismann Bilinear Control of Schrodinger Equations
9:15 AM - 10:00 AM	Joseph Winkin LQ-Optimal Feedback Regulation of a Nonisothermal Plug Flow Reactor Infinite-Dimensional Model
10:00 AM - 10:25 AM	COFFEE BREAK
10:30 AM - 11:15 AM	H.T. Banks Statistical and Mathematical Modeling in HIV: Estimation and Control
11:15 AM - 12:00 PM	Hoan Nguyen Sensitivity of Dynamical Systems to Banach Space Parameters
12:00 PM - 1:30 PM	LUNCH
Session Chair	Kalle Mikkola
Session Chair 1:30 PM - 2:15 PM	Kalle Mikkola Zbigniew Emirsaj CANCELLED Unbounded Perturbations in Lyapunov equations
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1:30 PM - 2:15 PM	Zbigniew Emirsaj CANCELLED Unbounded Perturbations in Lyapunov equations Hans Zwart
1:30 PM - 2:15 PM 2:15 PM - 3:00 PM	Zbigniew Emirsaj CANCELLED Unbounded Perturbations in Lyapunov equations Hans Zwart Is the inverse of A an infinitesimal generator?

Wednesday

Session Chair John Burns

8:30 AM - 9:15 AM Michel Delfour CANCELLED

Some Linear Quadratic Differential Games Revisited

9:15 AM - 10:00 AM Kalle Mikkola

The LQR Riccati equation and minimizing control for regular linear

systems

10:00 AM - 10:25 AM COFFEE BREAK

10:30 AM - 11:15 AM Mark Opmeer

A distributional approach to infinite-dimensional linear systems

11:15 AM - 12:00 PM Olof Staffans

The Infinite-Dimensional Continuous Time Kalman-Yakubovich-Popov

Inequality

AFTERNOON Free time (A hike in a conservation area and visit to a

reconstructed Indian village is planned.)

The bus will leave at 1:30 p.m. from the Ring Rd. in front of the

Davis Center.

Thursday

Session Chair	Richard Rebarber
8:30 AM - 9:15 AM	Chris Byrnes Comments on the Dynamics of Forced and Unforced Boundary Controlled Viscous Burgers' Equation
9:15 AM - 10:00 AM	David Gilliam Boundary and Interior Point Control for Burgers' Equation: A Zero Dynamics Approach
10:00 AM - 10:25 AM	COFFEE BREAK
10:30 AM - 11:15 AM	Ralph Smith Model Development and Nonlinear Optimal Control Design for Nonlinear Smart Material Systems
11:15 AM - 12:00 PM	John Burns Approximation and Sensitivity Analysis for PDE Control
12:00 PM - 1:30 PM	LUNCH
Session Chair 1:30 PM - 2:15 PM	David Gilliam Enrique Zuazua Numerical Methods for the Control of Partial Differential Equations and Wave Propagation
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1:30 PM - 2:15 PM 2:15 PM - 3:00 PM 3:00 PM - 3:25 PM	Enrique Zuazua Numerical Methods for the Control of Partial Differential Equations and Wave Propagation Marius Tucznak Uniformly exponentially stabilizable approximation for some infinite- dimensional systems COFFEE BREAK Kazufumi Ito

Friday

Session Chair	Ruth Curtain
8:30 AM - 9:15 AM	Kenji Kashima On standard H-infinity control problems for systems with infinitely many unstable poles
9:15 AM - 10:00 AM	H. Logemann Sampled-data integral control of stable linear systems in the presence of actuator nonlinearities: an input-output approach
10:00 AM - 10:25 AM	COFFEE BREAK
10:30 AM - 11:15 AM	Richard Rebarber Low-gain discrete-time tracking of non-constant reference signals
11:15 AM - 12:00 PM	Miroslav Krstic Adaptive Stabilization for Unstable Parabolic PDEs Controlled from a Boundary
12:00 PM - 12:10 PM	CLOSING REMARKS
12:15 PM - 1:30 PM	LUNCH