



Agenda for the 2003
Six Month Review of the
AFRL/VA and AFOSR



Collaborative Center of Control Science (CCCS)

The Ohio State University



Thursday, May 1, 2003

Rooms 259, 260, 267 Dreese Laboratories
(For directions, maps, and accommodations see web site)

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**Cooperative Control for UAVs and Microsatellites:
Rm. 260 Dreese Laboratories**

- 9:00am Cooperative Control for Networked UAVs
Kevin Passino
- 10:00am Break
- 10:15am Cooperative Control via Surrogate Optimization
Raúl Ordóñez
- 11:15am Distributed Task Assignment and Planning for Cooperative Search
Ali Minai and Marios Polycarpou
- 12:15pm Lunch (catered, on-site)**
- 1:00pm Markov Chain Models for Persistent Area Denial Problems
Joe Cruz
- 2:00pm Distributed Sensor Fusion and Cooperative Control Testbed Results
Ümit Özgüner and Keith Redmill
- 3:00pm Cooperative Control and Symbolic Model Checking
Bruce Weide
- 3:30pm Formation Control for Microsatellites
Trevor Williams
- 4:30pm Discussion: Challenges/Directions in Cooperative Control
- 5:00pm Cooperative Control Testbed Demonstration (731 Dreese Labs)

**Aerodynamic Flow Control:
Rm. 267 Dreese Laboratories**

- 9:00am Introduction
Mo Samimy
- 9:10am Simulation of Cavity Flows
Jim DeBonis
- 9:40am Low Dimensional Modeling of Cavity Flows
Mo Samimy
- 10:10 On Delay-Based Linear Models and Robust Control of Cavity Flows
Hitay Ozbay and Onder Efe
- 10:30am Break
- 10:45am Control Specific Issues in Flow Modeling
Onder Efe and Hitay Ozbay
- 11:15 Cavity Flow Experiments
Marco Debiasi and Mo Samimy
- 12:00pm Lunch (catered, on-site)**
- 1:00pm Discussion: Challenges/Directions in Flow Control
- 2:00pm Laboratory tour

**Control of Reusable Launch Vehicles:
Rm. 259 Dreese Laboratories**

- 9:00am Robust Dynamic Inversion
Rama Yedavalli
- 10:00am Break
- 10:15am Nonlinear Control Allocation
Steve Yurkovich
- 11:00am Dynamic Control Allocation
Andrea Serrani
- 12:00pm Lunch (catered, on-site)**
- 1:00pm Discussion: Challenges/Directions in RLVs