



Agenda for the 2006
Six Month Review of the
AFRL/VA and AFOSR



Collaborative Center of Control Science (CCCS)

The Ohio State University



Thursday, April 13, 2006

Rooms 259, 260, 267 Dreese Laboratories
(For directions, maps, and accommodations see web site:
<http://www.ece.osu.edu/~passino/cccs.html>)

Agenda for the 2006 Six-Month Review

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Cooperative Control for UAVs: Rm. 260 Dreese Laboratories

- 9:00am Mobile Sensor Agents
 Ümit Özgüner
- 9:45am Multiple Pursuer/Multiple Evader Problems
 Dongxu Li and Joe Cruz
- 10:30am Break
- 11:00am Coordinated Motion for Obstacle Avoidance and Target Capture
 Shreecharan Kanchanavally, Jingyi Yao, Raúl Ordóñez
- 11:45am Discussion
- 12:00pm Lunch (catered, on-site)
- 1:00pm Stable UAV Distributions for Surveillance
 Jorge Finke and Kevin Passino
- 1:45pm Distributed Coordination Strategies for Wide-Area Patrol
 Brandon Moore and Kevin Passino
- 2:30pm Break
- 3:00pm Transitioning Theory to Implementations
 Keith Redmill and Ümit Özgüner
- 3:45pm Demo is planned, discussion (formulations, testbed, etc.)

Control of Reusable Launch Vehicles: Rm. 259 Dreese Laboratories

- 9:00am Updates on Maneuver Automaton-Based Trajectory Generation on
 Approach and Landing for RLVs
 Zhesheng Jiang, Raúl Ordóñez
- 9:30am Discussion

- 10:00am Updates on Control Design for Air-breathing Hypersonic Vehicles
David Sigthorsson, Jason Parker, Andrea Serrani
- 10:45am Break
- 11:15am Updates on Modeling of Air-breathing Hypersonic Vehicles
Mike Bolender, Mike Oppenheimer
- 11:45 am Discussion
- 12:15pm Lunch (catered, on-site)
- 1:00pm Discussion

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

- 12:00pm Lunch (catered, on-site)
- 1:00pm Introduction & updates
Mo Samimy
- 1:15pm Air Force interest in flow control
James Myatt
- 1:30pm Control design status and issues
Andrea Serrani
- 1:45pm Reduced-order modeling status and issues
Chris Camphouse and Edgar Caraballo
- 2:00pm Discussion of issues - everyone
- 3:00pm Break
- 3:15pm Actuator modeling and control
Kihwan Kim
- 3:30pm Discussion of issues continues - everyone