Agenda for the 2005
Six Month Review of the

AFRL/VA and AFOSR

Collaborative Center of Control Science (CCCS)

The Ohio State University

Thursday, April 14, 2005

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 2005 Six-Month Review

Thursday, April 14, 2003

Cooperative Control for UAVs:
Rm. 260 Dreese Laboratories

9:00am   Mobile Sensor Agents
                Zhijun Tang and Ümit Özgüner

9:45am   Stable Cooperative Surveillance
                Alvaro Gil, Kevin Passino, Joe Cruz

10:30am   Break

11:00am   Cooperative Search and Tracking for Mobile Targets
                Shreecharan Kanchanavally, Raúl Ordóñez, Alvaro Gil

11:45am   Discussion

12:00pm   Lunch (catered, on-site)

1:00pm   Stable UAV Distributions for PAD
                Jorge Finke and Kevin Passino

1:45pm   Distributed Balancing of UAVs for Uniform Surveillance Coverage
                Brandon Moore and Kevin Passino

2:30pm   Break

3:00pm   Cellular Structures and Spatial Grouping of Mobile Systems
                Ümit Özgüner and Yongling Zheng

3:15pm   Strategies for Transitioning Theory to Implementations
                Qi Chen, Keith Redmill, and Ümit Özgüner

4:00pm   Discussion (formulations, testbed, etc.)

Control of Reusable Launch Vehicles:
Rm. 259 Dreese Laboratories

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

10:00am	Anti-windup design for linearized models of air-breathing RLVs Kevin Groves
10:45am	Break
11:15am	Robust tracking for overactuated systems: the constrained regulator approach David Sigthorsson
12:00pm	Updates on nonlinear robust control of air-breathing RLVs Jason Parker
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 Mo Samimy
1:15pm	Cavity Flow Simulations Update Jim DeBonis and Jim Malone
1:30pm	Subsonic Cavity Simulations at AFRL/VACA John Casey
1:45pm	Experimental work update Marco Debiasi and Jesse Little
2:10pm	Low Dimensional Modeling Edgar Caraballo
2:30pm	Feedback-Oriented Model Reduction for Flow Control Chris Camphouse
3:00pm	Break
3:15pm	Overview of the controller design activities Andrea Serrani

3:30pm	Controller design updates Peng Yan and Xin Yuan
4:10pm	Modeling of the acoustic actuator Ryan Schultz
4:25pm	Towards a very-low dimensional modeling of cavity flow dynamics Cosku Kasnakoglu