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)
Agenda for the 2003 Six-Month Review of the AFRL/VA and AFOSR supported
The Ohio State University

Collaborative Center of Control Science (CCCS)

Thursday, May 1, 2003

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
Úmit 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