



Final Review of the  
AFRL/VA and AFOSR

**The Ohio State University**

**Collaborative Center of Control Science**



July 26, 2007

**Thursday, July 26, 2007, Rm. 48 (in basement), Meyers Hall, Building 45  
AFRL**

9:00am      Opening Remarks  
Siva Banda

9:15am      Welcome and Collaborative Center of Control Science (CCCS)  
Program Overview  
Kevin Passino

**Aerodynamic Flow Control**

9:45am      Reduced-Order Modeling and Experiments for  
Feedback Flow Control  
Mo Samimy, Edgar Caraballo, Jesse Little,  
Doug Mitchell, Nathan Kamps, Tim Munther

10:45am      Break

11:00am      Controller Design for Feedback Flow Control  
Andrea Serrani, Cosku Kasnakoglu, Kwiwan Kim

12:00pm      Lunch

**Cooperative Control for Autonomous Air Vehicles**

1:00pm      Cooperative Control Overview  
Kevin Passino

1:15pm      Distributed Sensor Fusion with Mobile Sensor Agents  
Ümit Özgüner, Arda Kurt, Sangil Jwa, Kevin Streib

1:45pm      Autonomous Vehicles Experimental Program Overview  
Keith Redmill, John Martin, Ümit Özgüner

2:15pm      Cooperative Navigation and Path Planning for MAVs  
Raúl Ordóñez, Alan Jennings, Boakye Dankwa

2:45pm      Break

3:00pm      Cooperative Pursuit of Detected and Predicted Threats  
Joe Cruz, Dongxu Li

3:30pm Cooperative Surveillance  
Kevin Passino, Jorge Finke, Brandon Moore

**Space Access and Hypersonic Vehicle Guidance and Control**

4:00pm Overview of the Activity of the Space Access Area  
Andrea Serrani

4:10pm Robust and Adaptive Model-Based Control Strategies for Air-Breathing  
Hypersonic Vehicles  
Andrea Serrani, Steve Yurkovich, David Sigthorsson, Lisa Fiorentini

4:30pm Robust Trajectory Generation on Approach and Landing for RLVs  
Using Maneuver Primitives  
Raúl Ordóñez, Zhesheng Jiang

5:00pm Final Discussion

5:30pm Adjourn