

15 Feb 2007

Preliminary AGENDA

MEETING No. 99

AEROSPACE CONTROL AND GUIDANCE SYSTEMS COMMITTEE

Millennium Harvest House

Boulder, CO.

Feb 28 – Mar 2, 2007

**TUESDAY
27 Feb 07
7:30 PM**

1.0 PLANNING ADVISORY BOARD MEETING

Meeting Room - Flatiron Conference Room

Chairman	Dave Bodden
Vice-Chairman	Gary Balas
Immediate Past Chairman	Shawn Donley
Treasurer	Roger Burton
Secretary	Dave Ward

BOARD MEMBERS

G Jenny
S Banda
J. DeLuca
S Garg
P Hattis
R Hess
D Klyde

L Knotts
V Lebacqz
R Mehra
J Paduano
S Pszczolkowski
H Rediess
M Steinberg

P Stoliker
M Tischler
J Weyrauch
K Wise
M Draper-Donley

**Wednesday
28 Feb 07
7:30-8:30 AM**

**2.0 REGISTRATION & Breakfast-
Room – Century Room**

**Wednesday
28 Feb 07
8:30-9:15 AM**

**3.0 GENERAL COMMITTEE BUSINESS MEETING
Room – Century Room
Dave Bodden, Chairman**

**Wednesday
28 Feb 07
9:15 AM
-12:30 PM**

4.0 GENERAL COMMITTEE TECHNICAL SESSION

Jim Paduano and Marge Draper Donley, Co-Chairmen

4.1 Research Institutions, Industry, and University Reports

4.1.1 Research Institutes and Companies

4.1.1.1 Aurora Flight Sciences – Tom Vaneck

4.1.1.2 Barron Associates – David Ward

4.1.1.3 Calspan - Eric Ohmit

4.1.1.4 Optimal Synthesis – P. K. Menon

4.1.1.5 SAIC – Roger Burton

4.1.1.6 Scientific Systems – Raman Mehra

4.1.1.7 Sikorsky Aircraft – Vineet Sahasrabudhe

4.1.1.8 Systems Technology Inc. – David Klyde

4.1.2 Universities

4.1.2.1 Georgia Tech – Eric Feron

4.1.2.2 Texas A&M University – John Valasek

4.1.2.3 UC Berkeley – Karl Hedrick

4.1.2.4 UC Davis – Ronald Hess

4.1.2.5 University of Minnesota – Gary Balas

4.2 Government Agencies Summary Reports

4.1.2.1 FAA

4.1.1.1 Tech Center - Stanley Pszczolkowski

4.2.2 NASA

4.2.2.1 Dryden Flight Research Center – John Bosworth

4.2.2.2 Glenn Research Center – Sanjay Garg

4.2.2.3 Langley Research Center – Celeste BelCastro

4.2.3 US Air Force

4.2.3.1 Air Force Research Lab – Dave Doman

4.2.3.2 AFOSR– Lt Col. Scott Wells

**Wednesday
28 Feb 07**

LUNCHEON – Millennium Room

Subcommittee chairs, members and attendees will meet for lunch

12:30 -2:00 PM and agenda planning for Meeting No. 100

**Wednesday
28 Feb 07
2:00-3:20 PM**

**5.0 SUBCOMMITTEE E – FLIGHT, PROPULSION, AND
AUTONOMOUS VEHICLE CONTROL SYSTEMS**

Marc Steinberg, Chairman
Sanjay Garg & Jan DeLuca, Vice Chairmen

5.1 “Scan Eagle”, Carol Wilke, Boeing

5.2 “Multi-UAV Flight Test”, Karl Hedrick, California – Berkeley

**Wednesday
28 Feb 07
3:20-3:40 PM**

Break

**Wednesday
28 Feb 07
3:40-5:00 PM**

**5.0 SUBCOMMITTEE E – FLIGHT, PROPULSION, AND
AUTONOMOUS VEHICLE CONTROL SYSTEMS, Cont’d**

Marc Steinberg, Chairman
Sanjay Garg & Jan DeLuca, Vice Chairmen

5.3 “Control retrofit architecture to maintain throttle to thrust response
as the engine ages”, Sanjay Garg, NASA Glenn

5.4 “Flight Tests under the Autonomous Collaborative Operations
Program”, TBD, Perceptek

**Wednesday
28 Feb 07
6:00 – 7:00 PM**

RECEPTION – Millennium Room

Cash Bar will be Provided

**Thursday
1 Mar 07
7:30-8:30 AM**

Breakfast – Century Room

**Thursday
1 Mar 07
8:00-9:20 AM**

**6.0 SUBCOMMITTEE A – AERONAUTIC AND SURFACE
VEHICLES**

Lou Knotts, Chairman
Pat Stoliker & Dave Klyde, Vice Chairmen

6.1 “Control of a Morphing Aircraft”, John Valasek, Texas A&M

6.2 “Little Known Sikorsky Helicopters”, Thomas Lawrence, Sikorsky Helicopters

**Thursday
1 Mar 07
9:20-9:40 AM**

Break

**Thursday
1 Mar 07
9:40-11:00 AM**

6.0 SUBCOMMITTEE A – AERONAUTIC AND SURFACE VEHICLES, Cont’d

Lou Knotts, Chairman
Pat Stoliker & Dave Klyde, Vice Chairmen

6.3 F35 First Flight, Mary Beth O’Loughlin, Lockheed Martin Aeronautics

6.4 “747 Large Cargo Freighter”, Jeff Master, Boeing

**Thursday
1 Mar 07
11:00AM
-12:20 PM**

7.0 SUBCOMMITTEE B – MISSILES AND SPACE

Phil Hattis, Chairman
John Weyrauch & Kevin Wise, Vice Chairmen

7.1 “Crew Exploration Vehicle”, Harvey Mamich, Lockheed Martin

7.2 “Human-Interactive Autonomous Flight Manager for Precision Lunar Landing”, Lauren Kessler and Laura Forest, Draper

**Thursday
1 Mar 07
12:30-1:30 PM**

Luncheon - Millennium Room

PAB will meet for lunch & agenda planning for Meeting No. 100
Meeting attendees have open seating for lunch

**Thursday
1 Mar 07
1:30-2:50PM**

7.0 SUBCOMMITTEE B – MISSILES AND SPACE, Cont’d

Phil Hattis, Chairman
John Weyrauch & Kevin Wise, Vice Chairmen

7.3 “Precision Munition G-Hard Diagnostic Telemetry System”, Michael Wilson, ARL

7.4 “Miniature Low Cost Guidance Systems”, Steve Moore, Syntronics

**Thursday
1 Mar 07
2:50-3:00AM**

Break

**Thursday
1 Mar 07
3:10-3:40 PM**

**4.0 GENERAL COMMITTEE TECHNICAL SESSION
Cont'd**

Jim Paduano and Marge Draper Donley, Co-Chairmen

4.2.4 US Navy

4.2.4.1 NAWCAD S&T - Marc Steinberg

4.2.4.2 NAVAIR – Shawn Donley

4.2.5 US Army

4.2.5.1 Army Aeroflightdynamics Directorate – Mark Tischler

4.2.6 Homeland Security

4.2.6.1 Dept of Homeland Security – Herm Rediess

**Thursday
1 Mar 07
3:40-5:00PM**

**8.0 SUBCOMMITTEE C – AVIONICS AND SYSTEM
INTEGRATION**

Stan Pszczolkowski and Raman Mehra, Co-Chairmen

8.1 “Next Generation Air Transportation System”, Dr. Wilson Felder,
Director, FAA Technical Center

8.2 “Control Theory Applications to Air Traffic Control”, Todd
Farley, NASA Ames Research Center

**Friday
2 Mar 07
7:30 – 8:30AM**

Breakfast – Century Room

**Friday
2 Mar 07
8:00-9:20AM**

**8.0 SUBCOMMITTEE C – AVIONICS AND SYSTEM
INTEGRATION, Cont'd**

Stan Pszczolkowski and Raman Mehra, Co-Chairmen

8.3 “FAA Efforts on the Integration of UAS’s into the National
Airspace System”, Doug Davis, FAA

8.4 “Aggressive Maneuvers for UAV’s”, Prof. Eric Feron, Georgia Tech

Friday
2 Mar 07
9:20AM-12:20PM

9.0 SUBCOMMITTEE D – DYNAMICS, COMPUTATIONS AND ANALYSIS

Ron Hess and Siva Banda, Co-Chairmen
Roger Burton, Vice Chairman

9.1 “Modeling and Control Challenges for Air-Breathing Hypersonic Vehicles”, Dave Doman – AFRL

9.2 “Integrated Guidance and Control Algorithms”, P. K. Menon, Optimal Synthesis, Inc.

9.3 “Electric Actuation of Flight and Engine Controls”, Amit Kulshreshta, Moog, Inc. and Jean-Jacques Charrier, Hispano Suiza

9.4 "Seeded Failure Testing and Analysis of an Electro-Mechanical Actuator" Dave Bodden, Lockheed Martin, Bill Schley, Parker Aerospace, and Gavin Jenney, Dynamic Controls