

Draft Agenda

MEETING No. 107

AEROSPACE CONTROL AND GUIDANCE SYSTEMS COMMITTEE

Renaissance Boulder Flatiron Hotel
500 Flatiron Boulevard
Broomfield, CO 80021
303.464.8400

March 1 – 4, 2011

Tuesday **1.0 PLANNING ADVISORY BOARD MEETING**
1-March-11 Location – Red Rocks
7:30pm

Chairman	David Klyde
Vice-Chairman	Lou Knotts
Immediate Past Chairman	Gary Balas
Treasurer	Stan Pszczolkowski
Secretary	Jan De Luca

Board Members

C. Belcastro	P Hattis	H Rediess
D Bodden	R Hess	D Schmidt
D Doman	S Jacobson	M Steinberg
S Donley	G Jenney	M Tischler
M Draper-Donley	B Lee	M Waszak
S Garg	R Mehra	J Weyrauch
I Gregory	D Mitchell	K Wise

Wednesday **2.0 REGISTRATION and Breakfast**
2-March-11 Location – Flatiron 1
7:30 am – 8:30 am

Wednesday **3.0 GENERAL BUSINESS MEETING**
2-March-11 Location – Flatiron 1
8:30 am – 9:00 am David Klyde - Chairman

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Wednesday
2-March-11
9:00 am – 12:00 pm

4.0 GENERAL COMMITTEE TECHNICAL SESSION
Marge Draper-Donley and Christine Belcastro Co-Chairs

4.1 Government Agencies Summary Reports

4.1.1 DoD

4.1.1.1 AFRL – Dave Doman

4.1.1.2 NAVAIR – Shawn Donley

4.1.1.3 ONR – Marc Steinberg

4.1.2 FAA – Stan Pszczolkowski

4.1.3 NASA

4.1.3.1 Langley – Marty Waszak

4.1.3.2 Glenn – Sanjay Garg

4.1.3.3 Dryden – John Bosworth

4.2 Research Institutions, Industry and University Reports

4.2.1 Universities

4.2.1.1 University of California, Davis – Ron Hess

4.2.1.2 University of California, Irvine – Ken Mease

4.2.1.3 University of Minnesota – Gary Balas

4.2.2 Research Institutions and Companies

4.2.2.1 Barron Associates, Inc. – John Schierman

4.2.2.2 Calspan – Lou Knotts

4.2.2.3 Hoh Aeronautics, Inc. – Dave Mitchell

4.2.2.4 Robert Heffley Engineering – Bob Heffley

4.2.2.5 Scientific Systems, Inc. – Raman Mehra

4.2.2.6 Systems Technology, Inc. – David Klyde

Wednesday
2-March-11
12:00 pm – 1:30 pm

Luncheon – Red Rocks (meet in Subcommittees)
Subcommittee chairs, members and attendees will meet for lunch and agenda planning for Meeting No. 109.

Wednesday
2-March-11
1:30 pm – 3:30 pm

5.0 SUBCOMMITTEE B – MISSILES AND SPACE
Phil Hattis, Chair
John Weyrauch & Kevin Wise, Vice Chairs

5.1 “Kepler Attitude Control and Determination System Overview and Early Mission Experiences,” by Charles Schira, Ball Aerospace, (abstract) (presentation)

5.2 “X-51 Overview,” Kevin Boucutt, Boeing (abstract) (presentation)

5.3 “Minimum Time Slew Maneuvers with the TRACE Spacecraft,” Mike Ross, Naval Post Graduate School (abstract) (presentation)

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- Wednesday** **Break**
2-March-11
3:30 pm – 3:50 pm
- Wednesday** **5.0 SUBCOMMITTEE B – MISSILES AND SPACE (cont)**
2-March-11 Phil Hattis, Chair
3:50 pm – 4:30 pm John Weyrauch & Kevin Wise, Vice Chairs
5.4 “Draper Tactical Program Briefing,” TBD, Draper Labs (abstract) (presentation)
- Wednesday** **6.0 SUBCOMMITTEE C – AVIONICS AND SYSTEM INTEGRATION**
2-March-11 Raman Mehra and Marty Waszak, Co-Chairs
4:30 pm – 5:10 pm
6.1 “Research Activities for UAS National Airspace System Integration,” Karen Buondonna, FAA (abstract) (presentation)
- Wednesday** **Social Hour – Chautauqua**
2-March-11
6:00 pm – 7:00 pm
- Thursday** **Breakfast – Flatiron 1**
3-March-11
7:30 am – 8:30 am
- Thursday** **6.0 SUBCOMMITTEE C – AVIONICS AND SYSTEM INTEGRATION (cont)**
3-March-11 Raman Mehra and Marty Waszak, Co-Chairs
8:30 am – 10:30 am
6.2 “Design for Certification,” Russ Urzi, AFRL (abstract) (presentation)
6.3 “Multi-spacecraft Formation Program,” Fred Hadaegh, (abstract) (presentation)
6.4 “Aircraft Separation Assurance,” TBD, NASA LaRC, (abstract) (presentation)
- Thursday** **Break**
3-March-11
10:30am – 10:50am

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- Thursday**
3-March-11
10:50am – 12:10pm
- 7.0 SUBCOMMITTEE D – DYNAMICS, COMPUTATIONS, AND ANALYSIS**
Ron Hess and Dave Doman, Co-Chairs
Dave Schmidt, Vice Chair
- 7.1 “Personal History from Douglas Skyrocket to the Space Shuttle,” Herm Rediess (abstract) (presentation)
- 7.2 “Aerovironment Global Observer,” Andy Thurling, Aeroenvironment (abstract) (presentation)
- Thursday**
3-March-11
12:15 pm – 2:00 pm
- Luncheon – Red Rocks**
PAB will meet for lunch & agenda planning for Meeting No. 108.
Meeting attendees have open seating for lunch.
- Thursday**
3-March-11
2:00 pm – 3:20 pm
- 7.0 SUBCOMMITTEE D – DYNAMICS, COMPUTATIONS, AND ANALYSIS (cont)**
Ron Hess and Dave Doman, Co-Chairs
Dave Schmidt, Vice Chair
- 7.3 “Dynamics and Control of the Thirty Meter Telescope,” Peter Thompson, Systems Technology, Inc. (abstract) (presentation)
- 7.4 “High-Altitude Solar-Powered Drone,” Eugene Lavretsky, Boeing, (abstract) (presentation)
- Thursday**
3-March-11
3:20 pm – 3:40 pm
- Break**
- Thursday**
3-March-11
3:40 pm – 6:10 pm
- 8.0 SUBCOMMITTEE E – FLIGHT, PROPULSION, AND AUTONOMOUS VEHICLE CONTROL SYSTEMS**
Marc Steinberg, Chair
Sanjay Garg and Irene Gregory, Vice Chairs
- 8.1 “History of Aircraft Engine Control,” Sanjay Garg, NASA Glenn (abstract) (presentation)
- 8.2 “State of-the-art of On-board Vision and Laser-Based Autonomous Control for Small UAVs,” Eric Johnson, Georgia Tech(abstract) (presentation)
- 8.3 “The Effects of Icing on Dynamics, Real-Time Identification, and Pilot Notification,” TBD (abstract) (presentation)

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Friday
4-March-11
7:30 am – 8:30 am

Breakfast – Flatiron 1

Friday
4-March-11
8:30 am – 9:10 am

8.0 SUBCOMMITTEE E – FLIGHT, PROPULSION, AND AUTONOMOUS VEHICLE CONTROL SYSTEMS (cont)

Marc Steinberg, Chair
Sanjay Garg and Irene Gregory, Vice Chairs
8.4 “TBD,” TBD, (abstract) (presentation)

Friday
4-March-11
9:10 am – 11:50 am

9.0 SUBCOMMITTEE A – AERONAUTIC AND SURFACE VEHICLES

Steve Jacobson, Chair
Brian Lee and Dave Mitchell, Vice Chairs
9.1 “F-35B Jetborne Envelope Expansion,” Joe Krumenacker, NAVAIR (abstract) (presentation)
9.2 “853/MRAC,” NASA DFRC (abstract) (presentation)
9.3 “Tools Developed for 787 Flight Tests,” TBD, Boeing (abstract) (presentation)
9.4 “Mojave Space Port Vehicle,” TBD (abstract) (presentation)