

Draft Agenda

MEETING No. 108

AEROSPACE CONTROL AND GUIDANCE SYSTEMS COMMITTEE

Eisenhower Hotel and Conference Center
2634 Emmitsburg Road
Gettysburg, PA 17325
717.334.8121

October 11 – 14, 2011

Tuesday **1.0 SHORT COURSE: FLIGHT DYNAMICS OF RIGID AND FLEXIBLE**
11-Oct-11 **AIRCRAFT – Dr. David Schmidt**
8:00am-5:00pm Location – Stillwell

Tuesday **2.0 PLANNING ADVISORY BOARD MEETING**
11-Oct-11 Location – Stillwell
7:00pm

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

Wednesday **3.0 REGISTRATION AND BREAKFAST**
12-Oct-11 Location – Bradley/Nimitz
7:00 am – 8:30 am

Wednesday **3.5 OVERVIEW OF THE BATTLE OF GETTYSBURG**
12-Oct-11 Location – Bradley/Nimitz
8:15 am – 8:30 am David Klyde

Wednesday **4.0 GENERAL BUSINESS MEETING**
12-Oct-11 Location – Bradley/Nimitz
8:30 am – 9:00 am David Klyde - Chairman

Wednesday **5.0 GENERAL COMMITTEE TECHNICAL SESSION**
12-Oct-11 Marge Draper-Donley and Christine Belcastro Co-Chairs
9:00 am – 12:00 pm

5.1 Research Institutions, Industry and University Reports

5.1.1 Research Institutions and Companies

Draft Agenda

- 5.1.1.1 Systems Technology, Inc. – David Klyde
- 5.1.1.2 Mitchell Aerospace Research – Dave Mitchell
- 5.1.1.3 Calspan – Lou Knotts
- 5.1.1.4 Rockwell Collins – Vlad Gavrilets
- 5.1.1.5

5.1.2 Universities

- 5.1.2.1 University of Minnesota – Gary Balas
- 5.1.2.2 University of Colorado – Dave Schmidt
- 5.1.2.3

5.2 Government Agencies Summary Reports

5.2.1 NASA

- 5.2.1.1 Dryden – Steve Jacobson
- 5.2.1.2 Glenn – Sanjay Garg
- 5.2.1.3 Langley – Marty Waszak

5.2.2 FAA –

5.2.3 DoD

- 5.2.3.1 NAVAIR – Shawn Donley
- 5.2.3.2 AFRL –

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| Wednesday
12-Oct-11
12:00 pm – 1:30 pm | LUNCHEON – MACARTHUR (meet in Subcommittees)
Subcommittee chairs, members and attendees will meet for lunch and agenda planning for Meeting No. 109. |
| Wednesday
12-Oct-11
1:30 pm – 2:10 pm | 6.0 1st ANNUAL DAVE WARD MEMORIAL LECTURE
TBD |
| Wednesday
12-Oct-11
2:10 pm – 3:30 pm | 7.0 SUBCOMMITTEE A – AERONAUTIC AND SURFACE VEHICLES
Steve Jacobson, Chair
Brian Lee and Dave Mitchell, Vice Chairs
7.1 “Flying the Boeing 787,” Boeing, (abstract) (presentation)
7.2 “TBD Talk from a Pennsylvania University,” TBD (abstract) (presentation) |
| Wednesday
12-Oct-11
3:30 pm – 3:50 pm | Break |
| Wednesday
12-Oct-11
3:50 pm – 4:30 pm | 7.0 SUBCOMMITTEE A – AERONAUTIC AND SURFACE VEHICLES (cont)
Steve Jacobson, Chair
Brian Lee and Dave Mitchell, Vice Chairs
7.3 “HTV-2 Vehicle Overview and Flight Test Results,” Lockheed Martin (abstract) (presentation) |
| Wednesday
12-Oct-11
4:30 pm – 5:10 pm | 8.0 SUBCOMMITTEE B – MISSILES AND SPACE
Phil Hattis, Chair
John Weyrauch & Kevin Wise, Vice Chairs
8.1 “A Historical Look at Civil War Era Projectiles at the Battle of Gettysburg,” |

Draft Agenda

David Klyde, Systems Technology, Inc. (abstract) (presentation)

Wednesday
12-Oct-11
6:00 pm – 7:00 pm

SOCIAL HOUR – TBD

Thursday
13-Oct-11
7:00 am – 8:00 am

BREAKFAST – LOCATION – BRADLEY/NIMITZ

Thursday
13-Oct-11
8:00 am – 9:10 am

8.0 SUBCOMMITTEE B – MISSILES AND SPACE (cont)

Phil Hattis, Chair

John Weyrauch & Kevin Wise, Vice Chairs

8.2 “The History of Adaptive Control, Some Lessons Learned, and Future Directions,” TBD (abstract) (presentation)

8.3 “Some New Inertial Instrument Technologies and Applications,” Stephen Smith, Draper Lab (abstract) (presentation)

Thursday
13-Oct-11
9:10 am – 9:50 am

9.0 SUBCOMMITTEE C – AVIONICS AND SYSTEM INTEGRATION

Raman Mehra and Marty Waszak, Co-Chairs

9.1 “Multi-spacecraft Formation Program,” (abstract) (presentation)

Thursday
13-Oct-11
9:50am – 10:10am

Break

Thursday
13-Oct-11
10:10am – 11:30am

9.0 SUBCOMMITTEE C – AVIONICS AND SYSTEM INTEGRATION (cont)

Raman Mehra and Marty Waszak, Co-Chairs

9.2 “Knowledge-based Engineering of Actuation Concepts for Flight Control Systems,” Frank Thielecke, Technical University of Hamburg (abstract) (presentation)

9.3 “Automated Air Refueling of UAVs,” Jake Hinchman, AFRL (abstract) (presentation)

Thursday
13-Oct-11
11:30am – 12:10pm

10.0 SUBCOMMITTEE D – DYNAMICS, COMPUTATIONS, AND ANALYSIS

Ron Hess and Dave Doman, Co-Chairs

Dave Schmidt, Vice Chair

10.1 “Aerovironment Global Observer,” Derek Lisoski, Aerovironment (abstract) (presentation)

Thursday
13-Oct-11
12:15 pm – 2:00 pm

LUNCHEON – MACARTHUR

PAB will meet for lunch & agenda planning for Meeting No. 109.

Meeting attendees have open seating for lunch.

Thursday
13-Oct-11
2:30 pm – 5:00 pm

PRIVATE GETTYSBURG BATTLEFIELD TOUR

For those who have signed up, meet at buses in front of hotel.

Draft Agenda

- Friday**
14-Oct-11
7:00 am – 8:00 am
- BREAKFAST – LOCATION – BRADLEY/NIMITZ**
- Friday**
14-Oct-11
8:00 am – 9:10 pm
- 10.0 SUBCOMMITTEE D – DYNAMICS, COMPUTATIONS, AND ANALYSIS (cont)**
Ron Hess and Dave Doman, Co-Chairs
Dave Schmidt, Vice Chair
- 10.2 “Inflight Simulation and Handling Quality Examination of a Flying Wing,” Dominik Niedermeir and Jana Ehlers, DLR, Germany (abstract) (presentation)
- 10.3 “High Altitude Airship Research,” Thomas Myers, Systems Technology, Inc. (abstract) (presentation)
- Friday**
14-Oct-11
9:10 am – 11:10am
- 11.0 SUBCOMMITTEE E – FLIGHT, PROPULSION, AND AUTONOMOUS VEHICLE CONTROL SYSTEMS**
Marc Steinberg, Chair
Sanjay Garg and Irene Gregory, Vice Chairs
- 11.1 “Coordinated road search using multiple UAVs,” Naira Hovakimyan, University of Illinois (abstract) (presentation)
- 11.2 “X-47B Flying Qualities and Autonomy Design and Flight Test Results,” Chris DeWitt and Rylan Jager, Northrop Grumman Corporation, El Segundo, CA (abstract) (presentation)
- 11.3 “Integrated Adaptive Guidance and Control for Future Responsive Access to Space Technology,” Dale F. Enns, Honeywell Systems Research Center, Minneapolis, MN (abstract) (presentation)