

Preliminary Agenda

MEETING No. 104

AEROSPACE CONTROL AND GUIDANCE SYSTEMS COMMITTEE

**Omni Hotel
235 West Main Street
Charlottesville, VA 22902
October 14-16, 2009**

Tuesday
13-Oct-09
7:30 p.m.

1.0 PLANNING ADVISORY BOARD MEETING

Location: Preston

Chairman	Gary Balas
Vice-Chairman	Dave Ward
Immediate Past Chairman	Dave Bodden
Treasurer	Roger Burton
Secretary	Jan De Luca

BOARD MEMBERS

G Jenney	L Knotts	M Steinberg
S Banda	B Lee	M Draper-Donley
S Donley	R Mehra	M Tischler
S Garg	J Paduano	J Weyrauch
P Hattis	S Pszczolkowski	K Wise
R Hess	H Rediess	D Schmidt
D Klyde		

Wednesday
14-Oct-09
7:30-8:30 a.m.

2.0 REGISTRATION & Breakfast

Location : Preston Room

Wednesday
14-Oct-09
8:30-9:15 a.m.

3.0 GENERAL COMMITTEE BUSINESS MEETING

Location: Preston Room

Gary Balas, Chairman

Wednesday
14-Oct-09
9:15 a.m. -
12:30 p.m.

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 – Jim Paduano (abstract, presentation)

- 4.1.1.2 Barron Associates – David Ward (abstract, presentation)
- 4.1.1.3 Impact Technologies – Liang Tang (abstract, presentation)
- 4.1.1.4 Optimal Synthesis – P.K. Menon (abstract, presentation)
- 4.1.1.5 Systems Technology Inc. – David Klyde (abstract, presentation)

4.1.2 Universities

- 4.1.2.1 TUUH - Hamburg Technical University, Inst. of Aircraft Systems Engineering – Frank Thieleke
- 4.1.2.2 University of Colorado, Colorado Springs, Dave Schmidt (abstract, presentation)
- 4.1.2.3 University of Minnesota – Gary Balas (abstract, presentation)

4.2 Government Agencies Summary Reports

4.2.1 FAA

- 4.2.1.1 Tech Center - Stanley Pszczolkowski (abstract, presentation)

4.2.2 US Air Force

- 4.2.2.1 AFRL – James Myatt (abstract, presentation)

4.2.3 Department of Homeland Security

- 4.2.3.1 Department of Homeland Security – Herm Rediess (abstract, presentation)

4.2.4 NASA

- 4.2.4.1 Dryden – John Bosworth (abstract, presentation)

4.2.5 German Aerospace Center

- 4.2.5.1 DLR – Klaus-Uwe Hahn (abstract, presentation)

Wednesday **LUNCH – James Monroe Room**
 14-Oct-09
 12:30-2:00p.m

Wednesday **5.0 SUBCOMMITTEE E – FLIGHT, PROPULSION, AND AUTONOMOUS VEHICLE CONTROL SYSTEMS**
 14-Oct-09
 2:00-3:20 p.m. Marc Steinberg, Chairman
 Sanjay Garg & Jan DeLuca, Vice Chairmen

- 5.1 "CH-53K Flight Control System," Walt Carboni, Sikorsky (abstract, presentation)
- 5.2 " Dryden SOFIA Infrared Observatory," Ulrich Lampater , NASA Dryden (abstract, presentation)

Wednesday Break
14-Oct-09
3:20-3:35 p.m.

Wednesday
14-Oct-09 **5.0 SUBCOMMITTEE E – FLIGHT, PROPULSION, AND AUTONOMOUS VEHICLE CONTROL SYSTEMS cont'd**
3:35-4:50 p.m. Marc Steinberg, Chairman
Sanjay Garg & Jan DeLuca, Vice Chairmen

5.3 "Paper on New Verification & Validation Tools and Processes," POC Dave Ward (abstract, presentation)

5.4 "NASA Langley AirSTAR UAV Testbed Program," Austin Murch, NASA Langley (abstract, presentation)

Wednesday 6.0 SUBCOMMITTEE A – AERONAUTIC AND SURFACE VEHICLES
14-Oct-09 Lou Knotts, Chairman,
4:50-5:30 p.m. Pat Stoliker & Dave Klyde, Vice Chairmen

6.1 "How Best to Hover - Converging on Precision Hover Control for the F-35B," James Denham, NAVAIR, Shawn Donley contact (abstract, presentation)

Wednesday Optional Event: Bar Crawl
14-Oct-09
6:30 – ?? p.m.

Thursday Breakfast - Preston Room
15-Oct-09
7:30 – 8:30 a.m.

Thursday 6.0 SUBCOMMITTEE A – AERONAUTIC AND SURFACE VEHICLES cont'd
15-Oct-09 Lou Knotts, Chairman,
8:00 – 9:20 a.m. Pat Stoliker & Dave Klyde, Vice Chairmen

6.2 " FBW - Comparisons of Design Approaches and Envelope Protection," Tony Lambregts, FAA (abstract, presentation)

6.3 " Improved Tiltrotor Model Update Procedures," Barron Assoc. & Gene Morelli, NASA LaRC (abstract, presentation)

Thursday 7.0 SUBCOMMITTEE B-- MISSILES AND SPACE
15-Oct-09 Phil Hattis, Chairman

9:20-10:00 a.m. John Weyrauch & Kevin Wise, Vice Chairmen

7.1 "Ares I Avionics and Flight Software Architectures," by Paul Doyle, Draper Laboratory/Huntsville (abstract, presentation)

Thursday
15-Oct-09
10:00-10:20 p.m.

Break

Thursday
15-Oct-09
10:20-12:00 p.m.

7.0 SUBCOMMITTEE B-- MISSILES AND SPACE

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

7.2 "Ares I Abort Launch system, " Dr. John Davidson, NASA/Langley (abstract, presentation)

7.3 "The Orion/CEV Integrated GN&C system," by Kay Chevray, NASA/JSC (abstract, presentation)

Thursday
15-Oct-09
12:00-12:30 p.m.

8.0 SUBCOMMITTEE C – AVIONICS AND SYSTEM INTEGRATION

Stan Pszczolkowski and Raman Mehra, Co-Chairmen

8.1 " Ground Based Augmentation System, Project Newark," John Warburton, FAA (abstract, presentation)

Thursday
15-Oct-09
12:30–1:30 p.m.

Luncheon - James Monroe Room

PAB will meet for lunch & agenda planning for Meeting No. 104
Meeting attendees have open seating for lunch

Thursday
15-Oct-09
1:30 – 5:30 p.m.

Monticello Tour – Board Buses at Hotel

1:30 Bus arrives at hotel and heads to Monticello.
2:00 Arrive at Monticello Visitor Center. The group will split into 2 tour groups.
4:00 Tour of Monticello and its surroundings. Time at the gift store after tour.
5:00 Bus will leave gift shop and return to the hotel.

Friday
16-Oct-09
7:30 – 8:30 a.m.

Breakfast - Preston Room

Friday
16-Oct-09
8:00 – 9:20 a.m

8.0 SUBCOMMITTEE C – AVIONICS AND SYSTEM INTEGRATION cont'd
Stan Pszczolkowski and Raman Mehra, Co-Chairmen

8.2 "FAA UAS Topics, Technical and Certification," Ben Walsh and Bill Kaliardos, FAA (abstract, presentation)

8.3 " Constant Descent Arrivals," JP Clark, Georgia Tech (abstract, presentation)

Friday
16-Oct-09
9:20-11:20 a.m.

9.0 SUBCOMMITTEE D–DYNAMICS, COMPUTATIONS, AND ANALYSIS
Ron Hess and Siva Banda, Co-Chairmen
Roger Burton, Vice Chairman

9.1 "Active Rotor Control Systems for Helicopters," Christoph Kessler, DLR (abstract, presentation)

9.2 " PIO Suppression Flight Test – Anti-Windup Systems for Rate Limiting," P.O.C.: Klaus-Uwe Hahn, DLR

9.3 " The DARPA Vulture Project," Christopher Martin and Bernie Paiewonsky (Institute for Defense Analysis - IDA), and Dieter Multhopp (AFRL)