

Draft Agenda

MEETING No. 109

AEROSPACE CONTROL AND GUIDANCE SYSTEMS COMMITTEE

Marriott University Center
480 Wakara Way
Salt Lake City, UT 84108
801.581.1000

March 6 – 9, 2012

Tuesday **1.0 SHORT COURSE: – “Aircraft System Identification – Theory and Practice” by Dr. Gene Morelli**
6-March-12
8:00am-5:00pm Location – TBD, Breakfast at 7:30 am

Tuesday **2.0 PLANNING ADVISORY BOARD MEETING**
6-March-12
7:00pm Location – TBD

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

Wednesday **3.0 REGISTRATION AND BREAKFAST**
7-March-12
7:00 am – 8:30 am Location – TBD

Wednesday **4.0 GENERAL BUSINESS MEETING**
7-March-12
8:30 am – 9:00 am Location – TBD
David Klyde - Chairman

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

5.1 Government Agencies Summary Reports

5.1.1 DoD

5.1.1.1 AFFDL – Mark Tischler

5.1.1.2 AFRL – Dave Doman

5.1.1.3 NAVAIR – Shawn Donley

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5.1.2 NASA

5.1.2.1 Langley – Marty Waszak

5.1.2.2 Glenn – Sanjay Garg

5.1.2.3 Engineering & Safety Center – Neil Dennehy

5.1.2.4 Dryden – Steve Jacobson

5.1.3 DLR – Klaus-Uwe Hahn

5.2 Research Institutions, Industry, and University Reports

5.2.1 Universities

5.2.1.1 UC Davis – Ron Hess

5.2.1.2 University of Minnesota – Gary Balas

5.2.2 Research Institutions and Companies

5.2.2.1 Aurora Flight Sciences – Jim Paduano

5.2.2.2 Calspan – Lou Knotts

5.2.2.3 Mitchell Aerospace Research – Dave Mitchell

5.2.2.4 Optimal Synthesis, Inc. – P.K. Menon

5.2.2.5 Scientific Systems Company – Raman Mehra

5.2.2.6 Systems Technology, Inc. – Dave Klyde

Wednesday 7-March-12 12:00 pm – 1:30 pm	LUNCHEON – TBD (meet in Subcommittees) Subcommittee chairs, members and attendees will meet for lunch and agenda planning for Meeting No. 110.
Wednesday 7-March-12 1:30 pm – 3:30 pm	6.0 SUBCOMMITTEE E – FLIGHT, PROPULSION, AND AUTONOMOUS VEHICLE CONTROL SYSTEMS Sanjay Garg and Irene Gregory, Co-Chairs 6.1 “Mitigating a Potential Hazardous Icing Encounter using ICEPRO,” Borja Martos, UTSI (abstract) (presentation) 6.2 TBD (abstract) (presentation) 6.3 “UAS Target Level of Safety for 3 rd Parties,” Roland Cochran, NAVAIR (abstract) (presentation)
Wednesday 12-Oct-11 3:30 pm – 3:50 pm	Break
Wednesday 7-March-12 3:50 pm – 4:30 pm	6.0 SUBCOMMITTEE E – FLIGHT, PROPULSION, AND AUTONOMOUS VEHICLE CONTROL SYSTEMS (cont) Sanjay Garg and Irene Gregory, Co-Chairs 6.4 “UAS Motion Video Tracking Challenge,” John Valasek, Texas A&M (abstract) (presentation)
Wednesday 7-March-12 4:30 pm – 5:10 pm	7.0 SUBCOMMITTEE A – AERONAUTIC AND SURFACE VEHICLES Steve Jacobson, Chair Brian Lee and Dave Mitchell, Vice Chairs 7.1 “787 from a Pilot’s Perspective,” Randy Neville, Boeing, (abstract) (presentation)

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- Wednesday** **SOCIAL HOUR – LOCATION – TBD**
7-March-12
6:00 pm – 7:00 pm
- Thursday** **BREAKFAST – LOCATION – TBD**
8-March-12
7:00 am – 8:00 am
- Thursday** **7.0 SUBCOMMITTEE A – AERONAUTIC AND SURFACE VEHICLES (cont)**
8-March-12 Steve Jacobson, Chair
8:00 am – 10:00 am Brian Lee and Dave Mitchell, Vice Chairs
7.2 “History of the NT-33A Variable Stability Aircraft,” Lou Knotts (abstract) (presentation)
7.3 “HTV-2,” Bob Wetherall, Lockheed Martin (abstract) (presentation)
7.4 “Formation Flight,” Joe Pahle, NASA DFRC (abstract) (presentation)
- Thursday** **Break**
8-March-12
10:00am – 10:20am
- Thursday** **8.0 SUBCOMMITTEE B – MISSILES AND SPACE**
8-March-12 Phil Hattis, Chair
10:20 am–11:40 pm John Weyrauch & Kevin Wise, Vice Chairs
8.1 “Space-Borne GPS-Based Navigation Technology,” Neil Dennehy (NESC) as POC (abstract) (presentation)
8.2 “Taurus 2 Program and Demo Flight,” Mike Ruth (Orbital) as POC (abstract) (presentation)
- Thursday** **LUNCHEON – TBD**
8-March-12 PAB will meet for lunch & agenda planning for Meeting No. 110.
12:00 pm – 2:00 pm Meeting attendees have open seating for lunch.
- Thursday** **8.0 SUBCOMMITTEE B – MISSILES AND SPACE**
8-March-12 Phil Hattis, Chair
2:00 pm – 3:20 pm John Weyrauch & Kevin Wise, Vice Chairs
8.3 “The NRC’s Technology Development Prioritization Recommendations for NASA,” Phil Hattis, Draper Lab (abstract) (presentation)
8.4 “Status of Precision Guided Projectiles Programs,” John Weyrauch, ATK (abstract) (presentation)
- Thursday** **Break**
8-March-12
3:20 pm – 3:40 pm
- Thursday** **9.0 SUBCOMMITTEE C – AVIONICS AND SYSTEM INTEGRATION**
8-March-12 Raman Mehra and Marty Waszak, Co-Chairs
3:40 pm – 5:00 pm
9.1 “Multi-spacecraft Formation Program,” Fred Hadaegh (abstract) (presentation)

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9.2 "Ground Tests of Airport Taxi Operations," Hamsa Balakrishnan, MIT
(abstract) (presentation)

Friday

9-March-12

7:00 am – 8:00 am

Friday

9-March-12

8:00 am – 9:20 am

BREAKFAST – LOCATION – TBD

9.0 SUBCOMMITTEE C – AVIONICS AND SYSTEM INTEGRATION (cont)

Raman Mehra and Marty Waszak, Co-Chairs

9.3 "Survey of Recent Accomplishments and Research Directions in IVHM,"
Ashok Srivastava, Ames Research Center (abstract) (presentation)

9.4 "Survey of NextGen Operations Research," P.K. Kopardekar, NASA Ames;
Steve Bradford, FAA Chief Scientist for the NextGen Architecture (abstract)
(presentation)

Friday

9-March-12

9:20 am – 12:00 pm

10.0 SUBCOMMITTEE D – DYNAMICS, COMPUTATIONS, AND ANALYSIS (cont)

Ron Hess and Dave Doman, Co-Chairs

Dave Schmidt, Vice Chair

10.1 "Multidisciplinary Aircraft Demonstrator; Control of Flexible Aircraft," Bryan
Holm-Hansen, Lockheed (abstract) (presentation)

10.2 "Boeing 787 Flight Test," Vera Martinovich, Boeing (abstract)
(presentation)

10.3 "Phantom Ray," Ian Hanley, Boeing (abstract) (presentation)

10.4 "Minimal Modeling Adaptive Control of Aerospace Vehicles," Dennis
Bernstein, University of Michigan (abstract) (presentation)