Preliminary Agenda

MEETING No. 105

AEROSPACE CONTROL AND GUIDANCE SYSTEMS COMMITTEE

Harrah’s/Harvey’s Lake Tahoe Hotel  
Highway 50 at Stateline  
Lake Tahoe (Stateline), NV 89449  
March 3-5, 2010

<table>
<thead>
<tr>
<th>Tuesday</th>
<th>1.0 PLANNING ADVISORY BOARD MEETING</th>
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<tbody>
<tr>
<td>2-March-10</td>
<td>Location: Fallen Leaf</td>
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<tr>
<td>7:30 p.m.</td>
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Chairman: Gary Balas  
Vice-Chairman: Dave Ward  
Immediate Past Chairman: Dave Bodden  
Treasurer: Stan Pszczolkowski  
Secretary: Jan De Luca

BOARD MEMBERS

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

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<tr>
<th>Wednesday</th>
<th>2.0 REGISTRATION &amp; Breakfast</th>
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<tr>
<td>3-March-10</td>
<td>Location: Sand Harbor I Room</td>
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<td>7:30-8:30 a.m.</td>
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<tr>
<th>Wednesday</th>
<th>3.0 GENERAL COMMITTEE BUSINESS MEETING</th>
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<tbody>
<tr>
<td>3-March-10</td>
<td>Location: Sand Harbor I Room</td>
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<tr>
<td>8:30-9:00 a.m.</td>
<td>Gary Balas, Chairman</td>
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<tr>
<th>Wednesday</th>
<th>4.0 GENERAL COMMITTEE TECHNICAL SESSION</th>
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<tr>
<td>3-March-10</td>
<td>Marge Draper Donley and Dave Schmidt, Co-Chairs</td>
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<td>9:00 a.m. - 12:00 p.m.</td>
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4.1 Research Institutions, Industry, and University Reports

4.1.1 Universities

- 4.1.1.1 University of California, Davis – Ron Hess
- 4.1.1.2 University of Minnesota – Gary Balas

4.1.2 Research Institutes and Companies

- 4.1.1.1 Systems Technology Inc – Dave Klyde
- 4.1.1.2 Barron Associates – David Ward
4.1.1.3 HAI – Dave Mitchell
4.1.1.4 Robert Heffley Engineering. – Bob Heffley
4.1.1.8 Calspan – Lou Knotts

4.2 Government Agencies Summary Reports

4.2.1 FAA
4.2.1.1 Tech Center - Stanley Pszczolkowski

4.2.2 US Army
4.2.2.1 Aeroflightdynamics Directorate - Mark Tischler (abstract, presentation)

4.2.3 US Air Force
4.2.3.1 AFRL – Dave Doman

4.2.4 US Navy
4.2.4.1 ONR – Marc Steinberg
4.2.4.2 China Lake – Doug Philbrick

4.2.5 NASA
4.2.5.1 Dryden – Steve Jacobson
4.2.5.2 Glenn – Sanjay Garg
4.2.5.3 Langley – Irene Gregory

4.2.6 German Aerospace Center
4.2.6.1 DLR – Klaus-Uwe Hahn (abstract, presentation)

Wednesday
Luncheon – Tahoe A-B
3-March-10
12:00-1:30p.m.

Wednesday
5.0 SUBCOMMITTEE D–DYNAMICS, COMPUTATIONS, AND ANALYSIS
3-March-10
1:30-3:30 p.m.
Ron Hess and Dave Doman, Co-Chairmen

5.1 “Analysis and Design of Flapping Wing Vehicles,” Dave Doman, AFRL (abstract, presentation)


5.3 "Transport Aircraft Rudder Force/Feel System Piloted Simulations,” Roger Hoh, Hoh Aeronautics (abstract, presentation)

Wednesday
Break
3-March-10
3:30-3:45 p.m.
Wednesday  3-March-10  5.0  SUBCOMMITTEE D–DYNAMICS, COMPUTATIONS, AND ANALYSIS cont’d
3:45-4:25 p.m.  Ron Hess and Dave Doman, Co-Chairmen

5.4 "Out-of-Tolerance Structural Characteristics of Aging Aircraft,” Cindy Roman and LCDR Jessica Herman, NAVAIR (abstract, presentation)

Wednesday  6.0  SUBCOMMITTEE E – FLIGHT, PROPULSION, AND AUTONOMOUS VEHICLE CONTROL SYSTEMS
3-March-10  4:25-5:05 p.m.  Marc Steinberg, Chairman
Sanjay Garg & Jan DeLuca, Vice Chairmen

6.1 “The Flying Fish Persistent Ocean Surveillance Platform,” Ella Atkins, University of Michigan (abstract, presentation)

Wednesday  3-March-10  Mandatory Event: Social Hour
6:00 – 7:00 p.m.  Tahoe C-D

Thursday  4-March-10  Breakfast – Sand Harbor I
7:30 – 8:30 a.m.

Thursday  6.0  SUBCOMMITTEE E – FLIGHT, PROPULSION, AND AUTONOMOUS VEHICLE CONTROL SYSTEMS
4-March-10  8:00 – 10:00 a.m.  Marc Steinberg, Chairman
Sanjay Garg & Jan DeLuca, Vice Chairmen

6.2 " Aircraft Engine Model Based Performance and Health Assessment f Control and Diagnostics," Don Simon and Sanjay Garg, NASA Glenn (abstract, presentation)

6.3 “Active Stick Technology,” Stephen Judd, Stirling Dynamics Glenn (abstract, presentation)


Thursday  Break
4-March-10  10:00-10:20 p.m.

Thursday  7.0  SUBCOMMITTEE A – AERONAUTIC AND SURFACE VEHICLES
4-March-10  10:20-12:20 p.m.  Dave Klyde, Chairman,
Lou Knotts & Brian Lee, Vice Chairmen

7.2 "Flying the Ikahna UAV at NASA Dryden," Mark Pestana, NASA Dryden (abstract, presentation)

7.3 “F-35B STOVL Envelope Expansion,” Stefanie Bartley, JSF Vehicle Control & Integration Group, NAVAIR Flight Dynamics (abstract, presentation)

**Thursday 4-March-10**

**12:30 – 2:00 p.m. Luncheon - Tahoe A-B**

PAB will meet for lunch & agenda planning for Meeting No. 106
Meeting attendees have open seating for lunch

**Thursday 4-March-10**

**2:00 – 2:40 p.m. 7.0 SUBCOMMITTEE A – AERONAUTIC AND SURFACE VEHICLES cont’d**

Dave Klyde, Chairman, Lou Knotts & Brian Lee, Vice Chairmen

7.4 "F-35B STOVL Flying Qualities Flight Test Continuation Criteria,” A Jenkins, F-35 Flying Qualities Lead, JSFPO, VCIG, NAVAIR Flight Dynamics (abstract, presentation)

**Thursday 4-March-10**

**2:40 – 3:20 p.m. 8.0 SUBCOMMITTEE B-- MISSILES AND SPACE**

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

8.1 “Draper Laboratory Overview of Rendezvous and Proximity Operations," Piero Miotto, Darper Laboratory/Houston (abstract, presentation)

**Thursday 4-March-10**

**3:20 – 3:40 p.m. Break**

**Thursday 4-March-10**

**3:40 – 5:00 p.m. 8.0 SUBCOMMITTEE B-- MISSILES AND SPACE cont’d**

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

8.2 “Placing People on the Moon: A Look at the Technical and Political Contexts," Phil Hattis, Draper Laboratory (abstract, presentation)

8.3 “Perspectives of German Space Research and Space Activities in the Next Decade,” Juergen Drescher, DLR, Germany (abstract, presentation)

**Friday 5-March-10**

**7:30 – 8:30 a.m. Breakfast – Sand Harbor I**
8.0 SUBCOMMITTEE B -- MISSILES AND SPACE cont'd
Phil Hattis, Chairman
John Weyrauch & Kevin Wise, Vice Chairmen

8.4 "Weapon Design Considerations for Small UAVs," Doug Storsved, ATK (abstract, presentation)

9.0 SUBCOMMITTEE C -- AVIONICS AND SYSTEM INTEGRATION
Stan Pszczolkowski and Raman Mehra, Co-Chairmen

9.1 “Distributed Data Fusion for Autonomous Searching by Multiple UAV’s” – Karl Hedrick, University of California, Berkeley (abstract, presentation)

9.2 "New Mexico State University UAS Test Range” – Stephen Hottman, New Mexico State University, Physical Science Laboratory, Associate Dean for R&D/Deputy Director (abstract, presentation)

9.3 "Safety in Complex Systems” – Amy Pritchett, Georgia Tech (abstract, presentation)