

**MEETING NO. 119**

**Draft AGENDA OUTLINE**

**AEROSPACE CONTROL AND GUIDANCE SYSTEMS COMMITTEE**

Holiday Inn - Fairborn  
2800 Presidential Dr.  
Fairborn, OH 45324  
**28-31 March, 2017**

**Tuesday**

28-Mar-17

6:00pm

**3.0 PLANNING ADVISORY BOARD MEETING**

Wright Room

**Chairman**

Brian Lee

**Vice-Chairman**

Marge Draper-Donley

**Immediate Past Chairman**

Phil Hattis

**Treasurer**

Stan Pszczolkowski

**Secretary**

Jeb Orr

**Board Members**

Christine Belcastro  
Riccardo Bevilacqua  
Oliver Brieger  
Jan De Luca  
Dave Doman  
Shawn Donley  
Dale Enns

Sanjay Garg  
Irene Gregory  
Klaus-Uwe Hahn  
Steve Jacobson  
Gavin Jenney  
Dave Klyde  
Raman Mehra

Piero Miotto  
Dave Mitchell  
Jeb Orr  
James Paduano  
Dave Schmidt  
Mark Tischler  
Kevin Wise

<b>Wednesday</b> 29-Mar-17 7:00am – 8:00am	<b>2.0 REGISTRATION AND BREAKFAST</b> Lindbergh/Earhart
8:00am – 8:30am	<b>3.0 GENERAL BUSINESS MEETING</b> Lindbergh/Earhart Brian Lee – Chairman

<p><b>Wednesday</b> 29-Mar-17 8:30am – 12:00pm</p>	<p><b>4.0 GENERAL COMMITTEE TECHNICAL SESSION</b> Christine Belcastro and Dale Enns Co-Chairs <i>NOTE: LISTED GENERAL SESSION BRIEFINGS ARE STILL PLACE HOLDERS BASED ON ACTUAL PRESENTERS AT MEETING 117</i></p>
	<p><b>4.1 Government Agencies Summary Reports</b></p> <ul style="list-style-type: none"> <li>4.1.1 DLR - Klaus-Uwe Hahn</li> <li>4.1.2 NASA <ul style="list-style-type: none"> <li>4.1.2.1 Langley - Carey Buttrill</li> <li>4.1.2.2 Marshall – John Wall</li> </ul> </li> </ul> <p><b>4.2 Research Institutions, Industry, and University Reports</b></p> <ul style="list-style-type: none"> <li>4.2.1 Research Institutions and Companies <ul style="list-style-type: none"> <li>4.2.1.1 Systems Technology, Inc. - Dave Klyde</li> <li>4.2.1.2 Calspan Flight Research Group - Lou Knotts</li> <li>4.2.1.3 Scientific Systems Company - Raman Mehra</li> <li>4.2.1.4 Barron &amp; Associates - Alec Bateman</li> <li>4.2.1.5 Mitchell Aerospace Research - Dave Mitchell</li> <li>4.2.1.6 Sikorsky Aircraft - Vineet Sahasrabudhe</li> <li>4.2.1.7 Crew Systems – Dick Newman</li> </ul> </li> <li>4.2.2 Technical Committee Liaison <ul style="list-style-type: none"> <li>4.2.2.1 SAE S-7 Committee – Brian Lee</li> </ul> </li> <li>4.2.3 Universities <ul style="list-style-type: none"> <li>4.2.3.1 University of Minnesota – Pete Seiler</li> <li>4.2.3.2 Technical University Munich - Florian Holzapfel</li> <li>4.2.3.3 Hamburg University of Technology - Frank Thielecke</li> <li>4.2.3.4 Moscow Aviation Institute – Alexander Efremov</li> </ul> </li> </ul>
<p>12:00pm – 1:30pm</p>	<p><b>LUNCHEON – Wright/Patterson (Meet in Subcommittees)</b> Subcommittee chairs, members and attendees will meet for lunch and agenda planning for Meeting No. 120.</p>
<p>1:30pm – 2:10 pm</p>	<p><b>5.0 SUBCOMMITTEE E – FLIGHT, PROPULSION, AND AUTONOMOUS VEHICLE CONTROL SYSTEMS</b> Sanjay Garg, Chair Klaus-Uwe Hahn, Dave Mitchell, Vice Chairs 5.1 “Sikorsky Rotorcraft Autonomy Research Program”, Igor Cherepinsky, <a href="mailto:ICherepinsky@sikorsky.com">ICherepinsky@sikorsky.com</a>, <a href="http://Sikorsky.com">Sikorsky</a></p>
<p>2:10pm – 2:50pm</p>	<p>5.2 “ONR Science of Autonomy Research”, Mark Steinberg, ONR</p>
<p>2:50pm – 3:30pm</p>	<p>5.3 “Recent Technology Advances in Distributed Engine Control”, Dennis E. Culley, NASA GRC</p>

<b>Wednesday</b> 29 March, 2017 3:30pm – 3:50pm	<b>BREAK</b>
3:50pm – 4:30pm	<b>6.0 SUBCOMMITTEE A – AERONAUTIC AND SURFACE VEHICLES</b> Steve Jacobson, Chair Klaus-Uwe Hahn, Dave Mitchell, Vice Chairs 6.1 “DLR In-Flight Simulation and Test Aircraft”, Peter Hammel, DLR (Ret)
4:30pm – 5:10pm	6.2 “Airbus: History of Fly-by-Wire at Airbus”, Xavier LeTron, Airbus
5:30	<b>Reception</b> <b>Challenger/Discovery</b>
<b>Thursday</b> 30 March, 2017 7:00am – 8:00am	<b>BREAKFAST – Lindbergh/Earhart</b>
8:00am – 8:40am	<b>6.0 SUBCOMMITTEE A – AERONAUTIC AND SURFACE VEHICLES (cont)</b> Steve Jacobson, Chair Klaus-Uwe Hahn, Dave Mitchell, Vice Chairs 6.3 “Aeroservoelastic Modeling of Body Freedom Flutter for Control System Design”, Jeffrey Zuellette, NASA Armstrong
8:40am – 9:20am	<b>7.0 SUBCOMMITTEE B – MISSILES AND SPACE</b> Piero Miotto, Chair Riccardo Bevilacqua, Vice Chair; Kevin Wise, Vice Chair 7.1 “Precision Inertial sensors and drag-free control for the Laser Interferometer Space Antenna”, John W. Conklin, University of Florida
9:20am – 10:00am	7.2 “Satellite Formation Flying for Future Space Science and Exploration”, S. D’Amico, Space Rendezvous Laboratory, Stanford, University
10:00am – 10:20am	<b>Break</b>
10:20am – 11:00am	<b>7.0 SUBCOMMITTEE B – MISSILES AND SPACE (cont)</b> Piero Miotto, Chair Riccardo Bevilacqua, Vice Chair; Kevin Wise, Vice Chair 7.3 “TIGER - Terminal Intercept Guidance and Engagement Research”, Dr. Benjamin Dickinson, AFRL
11:00am – 11:40am	<b>8.0 SUBCOMMITTEE C – AVIONICS AND SYSTEM INTEGRATION</b> Raman Mehra, Chairs Jan DeLuca, Vice Chair; James Paduano, Vice Chair 8.1 “Global UAS Integration”, Doug Davis, Northrop Grumman
11:40-1:00	<b>Luncheon – Wright</b> <b>PAB Luncheon - Patterson</b>
1:00pm	<b>Depart for National Museum of the US Air Force</b>
5:00pm	<b>Depart for dinner at the Engineer’s Club of Dayton</b>

9:00pm	<b>Return to hotel</b>
<b>Friday</b> 31 March, 2017 7:00am – 8:00am	<b>BREAKFAST – Lindbergh/Earhart</b>
8:00am – 8:40am	<b>8.0 SUBCOMMITTEE C – AVIONICS AND SYSTEM INTEGRATION (cont)</b> Raman Mehra, Chairs Jan DeLuca, Vice Chair; James Paduano, Vice Chair  8.2 “Autonomy DSB Summer Study Results, with focus on flight-critical systems autonomy”, Brent Appleby, Draper
8:40am – 9:20am	8.3 “Autonomy for Manned/Unmanned Aircraft Teaming”, Corey Schumacher, AFRL, WPAFB
9:20am – 10:00am	<b>9.0 SUBCOMMITTEE D – DYNAMICS, COMPUTATIONS, AND ANALYSIS</b> Dave Doman, Co-Chairs Dave Schmidt, Vice Chair 9.1 “ATARI LSO/UAS Approach”, Buddy Denham, NAVAIR
10:00am – 10:20am	Break
10:20am – 11:00am	<b>9.0 SUBCOMMITTEE D – DYNAMICS, COMPUTATIONS, AND ANALYSIS (cont)</b> Dave Doman, Co-Chairs Dave Schmidt, Vice Chair  9.2 “Dynamics of Flexible HALE Aircraft”, Carlos Cesnik, U of Michigan
11:00am – 11:40am	9.3 “HQ Design Criteria for UAS Carrier Approach UAS”, Marge Draper-Donley, NAVAIR
11:40am Adjourn	