

**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  
James Paduano  
Dave Schmidt  
Mark Tischler  
Kevin Wise

**Wednesday**

29-Mar-17

7:00am – 8:00am

**2.0 REGISTRATION AND BREAKFAST**

Lindbergh/Earhart

8:00am – 8:30am

**3.0 GENERAL BUSINESS MEETING**

Lindbergh/Earhart

Brian Lee – Chairman

**Wednesday**

29-Mar-17

8:30am – 12:00pm

**4.0 GENERAL COMMITTEE TECHNICAL SESSION**

Christine Belcastro and Dale Enns Co-Chairs

*NOTE: LISTED GENERAL SESSION BRIEFINGS ARE STILL PLACE HOLDERS  
BASED ON ACTUAL PRESENTERS AT MEETING 117*

**4.1 Government Agencies Summary Reports**

4.1.1 DLR - Klaus-Uwe Hahn

4.1.2 NASA

4.1.2.1 Langley - Carey Buttrill

4.1.2.2 Marshall – John Wall

**4.2 Research Institutions, Industry, and University Reports**

4.2.1 Research Institutions and Companies

4.2.1.1 Systems Technology, Inc. - Dave Klyde

4.2.1.2 Calspan Flight Research Group - Lou Knotts

4.2.1.3 Scientific Systems Company - Raman Mehra

4.2.1.4 Barron & Associates - Alec Bateman

4.2.1.5 Mitchell Aerospace Research - Dave Mitchell

4.2.1.6 Sikorsky Aircraft - Vineet Sahasrabudhe

4.2.1.7 Crew Systems – Dick Newman

4.2.2 Technical Committee Liaison

4.2.2.1 SAE S-7 Committee – Brian Lee

4.2.3 Universities

4.2.3.1 University of Minnesota – Pete Seiler

4.2.3.2 Technical University Munich - Florian Holzapfel

4.2.3.3 Hamburg University of Technology - Frank Thielecke

4.2.3.4 Moscow Aviation Institute – Alexander Efremov

12:00pm – 1:30pm

**LUNCHEON – Wright/Patterson (Meet in Subcommittees)**

Subcommittee chairs, members and attendees will meet for lunch and agenda planning for Meeting No. 120.

1:30pm – 2:10 pm

**5.0 SUBCOMMITTEE E – FLIGHT, PROPULSION, AND AUTONOMOUS VEHICLE CONTROL SYSTEMS**

Sanjay Garg, Chair

Irene Gregory and Lou Knotts, Vice Chairs

5.1 “Sikorsky Rotorcraft Autonomy Research Program”, Igor Cherepinsky,  
[ICherepinsky@sikorsky.com](mailto:ICherepinsky@sikorsky.com), [Sikorsky](#)

2:10pm – 2:50pm

5.2 “ONR Science of Autonomy Research”, Mark Steinberg, ONR

2:50pm – 3:30pm

5.3 “Recent Technology Advances in Distributed Engine Control”, Dennis E. Culley,  
NASA GRC

**Wednesday**

29 March, 2017

3:30pm – 3:50pm

**BREAK**

3:50pm – 4:30pm

**6.0 SUBCOMMITTEE A – AERONAUTIC AND SURFACE VEHICLES**

Steve Jacobson, Chair

Klaus-Uwe Hahn, Dave Mitchell, Vice Chairs

6.1 “DLR In-Flight Simulation and Test Aircraft”, Peter Hamel, DLR (Ret)

4:30pm – 5:10pm

6.2 “Airbus: History of Fly-by-Wire at Airbus”, Xavier LeTron, Airbus

5:30

**Reception  
Challenger/Discovery**

**Thursday**

30 March, 2017

7:00am – 8:00am

**BREAKFAST – Lindbergh/Earhart**

**6.0 SUBCOMMITTEE A – AERONAUTIC AND SURFACE VEHICLES (cont)**

Steve Jacobson, Chair

Klaus-Uwe Hahn, Dave Mitchell, Vice Chairs

8:00am – 8:40am

6.3 “Aeroservoelastic Modeling of Body Freedom Flutter for Control System Design”, Jeffrey Zuellette, NASA Armstrong

**7.0 SUBCOMMITTEE B – MISSILES AND SPACE**

Piero Miotto, Chair

Riccardo Bevilacqua, Vice Chair; Kevin Wise, Vice Chair

8:40am – 9:20am

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

**Break**

**7.0 SUBCOMMITTEE B – MISSILES AND SPACE (cont)**

Piero Miotto, Chair

Riccardo Bevilacqua, Vice Chair; Kevin Wise, Vice Chair

10:20am – 11:00am

7.3 “TIGER - Terminal Intercept Guidance and Engagement Research”, Dr. Benjamin Dickinson, AFRL

11:00am – 11:40am

**8.0 SUBCOMMITTEE C – AVIONICS AND SYSTEM INTEGRATION**

Raman Mehra, Chair

Jan DeLuca, Vice Chair; James Paduano, Vice Chair

11:40-1:00

8.1 “Global UAS Integration”, Doug Davis, Northrop Grumman

**Luncheon – Wright**

**PAB Luncheon - Patterson**

1:00pm

**Depart for National Museum of the US Air Force**

5:00pm

**Depart for dinner at the Engineer’s Club of Dayton**

9:00pm	<b>Return to hotel</b>
<b>Friday</b>	<b>BREAKFAST – Lindbergh/Earhart</b>
31 March, 2017	
7:00am – 8:00am	
	<b>8.0 SUBCOMMITTEE C – AVIONICS AND SYSTEM INTEGRATION (cont)</b>
	Raman Mehra, Chairs
	Jan DeLuca, Vice Chair; James Paduano, Vice Chair
8:00am – 8:40am	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
	<b>9.0 SUBCOMMITTEE D – DYNAMICS, COMPUTATIONS, AND ANALYSIS</b>
	Dave Doman, Co-Chair
	Dave Schmidt, Vice Chair
9:20am – 10:00am	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-Chair
	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	