

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 **Short Course: Aircraft Certification**
28-Mar-17 Kitty Hawk Room
8:00am

Tuesday
28-Mar-17
7:00pm **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	Sanjay Garg	Piero Miotto
Riccardo Bevilacqua	Irene Gregory	Dave Mitchell
Oliver Brieger	Klaus-Uwe Hahn	James Paduano
Jan De Luca	Steve Jacobson	Dave Schmidt
Dave Doman	Gavin Jenney	Mark Tischler
Shawn Donley	Dave Klyde	Kevin Wise
Dale Enns	Raman Mehra	Lou Knotts

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

<p>Wednesday 29-Mar-17 8:30am – 12:00pm</p>	<p>4.0 GENERAL COMMITTEE TECHNICAL SESSION Christine Belcastro and Dale Enns Co-Chairs</p>
	<p>4.1 Government Agencies Summary Reports</p> <ul style="list-style-type: none"> 4.1.1 AFRL – Dave Doman 4.1.2 DLR - Dominik Niedermeier 4.1.3 NASA <ul style="list-style-type: none"> 4.1.3.1 Armstrong – Steve Jacobson 4.1.3.2 Glenn – Sanjay Garg 4.1.3.3 Langley – Irene Gregory 4.1.3.4 Marshall – John Ottander <p>4.2 Research Institutions, Industry, and University Reports</p> <ul style="list-style-type: none"> 4.2.1 Research Institutions and Companies <ul style="list-style-type: none"> 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 – Nate Richards 4.2.1.5 Mitchell Aerospace Research - Dave Mitchell 4.2.1.6 Aurora Flight Sciences – Jim Paduano 4.2.1.7 Crew Systems – Dick Newman 4.2.2 Technical Committee Liaison <ul style="list-style-type: none"> 4.2.2.1 SAE S-7 Committee – Brian Lee
<p>12:00pm – 1:30pm</p>	<p>LUNCHEON – Wright/Patterson (Meet in Subcommittees) 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>5.0 SUBCOMMITTEE E – FLIGHT, PROPULSION, AND AUTONOMOUS VEHICLE CONTROL SYSTEMS Sanjay Garg, Chair Irene Gregory and Lou Knotts, Vice Chairs</p> <p>5.1 “Sikorsky Rotorcraft Autonomy Research Program”, Dr. Barbara Lindauer, Barbara.k.lindauer@lmco.com</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>

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 “In-Flight Simulators and Fly-by-Wire Demonstrators – Historical Account of International Aeronautical Research”, 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
8:00am – 8:40am	6.0 SUBCOMMITTEE A – AERONAUTIC AND SURFACE VEHICLES (cont) Steve Jacobson, Chair Klaus-Uwe Hahn, Dave Mitchell, Vice Chairs 6.3 “Aeroservoelastic Modeling of Body Freedom Flutter for Control System Design”, Jeffrey Ouellette, NASA Armstrong
8:40am – 9:20am	7.0 SUBCOMMITTEE B – MISSILES AND SPACE 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	Break
10:20am – 11:00am	7.0 SUBCOMMITTEE B – MISSILES AND SPACE (cont) 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	8.0 SUBCOMMITTEE C – AVIONICS AND SYSTEM INTEGRATION Raman Mehra, Chair Jan DeLuca, Vice Chair; James Paduano, Vice Chair 8.1 “Global UAS Integration”, Lance King, Northrop Grumman
11:40-1:00	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	Return to hotel
Friday 31 March, 2017 7:00am – 8:00am	BREAKFAST – Lindbergh/Earhart
8:00am – 8:40am	8.0 SUBCOMMITTEE C – AVIONICS AND SYSTEM INTEGRATION (cont) Raman Mehra, Chair 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	9.0 SUBCOMMITTEE D – DYNAMICS, COMPUTATIONS, AND ANALYSIS Dave Doman, Co-Chair Dave Klyde, Co-Chair 9.1 “Advanced-deck Lighting & Aircraft Displays for Dynamic Interface: Project Aladdin”, Buddy Denham, NAVAIR
10:00am – 10:20am	Break
10:20am – 11:00am	9.0 SUBCOMMITTEE D – DYNAMICS, COMPUTATIONS, AND ANALYSIS (cont) Dave Doman, Co-Chair Dave Klyde, Co-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	