



# Aerospace Control and Guidance Systems Committee Meeting No. 133

**Fall 2024  
Asheville, NC**

**DRAFT AGENDA (11/16/24)**

## TUESDAY, 19 November 2024

07:00 pm -9:00 pm	<b>PLANNING ADVISORY BOARD MEETING</b> - Arcade SE
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<b>Chairman</b>	Jeb Orr
<b>Vice-Chairman</b>	John Valasek
<b>Immediate Past Chairman</b>	Piero Miotto
<b>Treasurer</b>	Stan Pszczolkowski
<b>Secretary</b>	Kevin Duda

<b>Planning Advisory Board Members</b>		
Mike Bolender	Philippe Goupil	Raman Mehra
Oliver Brieger	Irene Gregory	Chris Miller
Dave Doman	Phil Hattis	Dave Mitchell
Marge Draper-Donley	Dave Klyde	Kevin Wise
Jared Grauer	Brian Lee	Tansel Yucelen

<b>PAB Emeritus</b>				
Shawn Donley	Ron Hess	Lou Knotts	Gavin Jenney	Dave Schmidt

<b>WEDNESDAY, 20 November 2024 – Day 1</b>	
7:00 am – 8:00 am	<b>REGISTRATION &amp; BREAKFAST</b> - Arcade SE
8:00 am – 8:30 am	<b>GENERAL BUSINESS MEETING</b> – Arcade NW Jeb Orr – ACGSC Chair
8:30 am – 10:00 am	<b>GENERAL COMMITTEE TECHNICAL SESSION</b> – Arcade NW <ul style="list-style-type: none"> <li>● Philip Goupil, Airbus</li> <li>● Raman Mehra, Scientific Systems Company, Inc.</li> <li>● John Wall, NASA MSFC / Jacobs - Mclaurin Aerospace</li> <li>● Greg Smolinski, Calspan</li> </ul>
10:00 am – 10:20 am	Break
10:20 - 11:00 am	<b>Hurricane Helene Special Topic</b> - Jared Rennie, NOAA Climatic Science and Services Division (CSSD)
<b>SUBCOMMITTEE A – AERONAUTIC AND SURFACE VEHICLES</b> (Session 1 of 2) - Arcade NW Co-Chairs: Dave Mitchell, Oliver Brieger, and Chris Miller	
11:00 am – 11:40 am	A.1 “PIO and Handling Qualities Prediction Using the USAFTPS Bjorkman PIO Data Set,” Ed Bachelder, San Jose State University
12:00 pm – 1:30 pm	<b>LUNCHEON</b> – (Meet in Subcommittees) – Arcade SE
<b>SUBCOMMITTEE A – AERONAUTIC AND SURFACE VEHICLES</b> (Session 2 of 2) - Arcade NW	
1:50 pm – 2:30 pm	A.2 “X-57 Lessons Learned from a Flight Controls Perspective,” James Reynolds, NASA Armstrong Flight Research Center (AFRC)
2:30 pm - 3:10 pm	A.3 “X-31 Flight Test History,” Marge Draper-Donley, NAVAIR, and Oliver Brieger, Airbus
3:10 pm – 3:30 pm	Break
3:30 pm - 4:10 pm	A.4 “B-47 Fly-By-Wire Development Program 1966-1969,” Gavin Jenney
<b>SUBCOMMITTEE B – MISSILES AND SPACE</b> (Session 1 of 2) - Arcade NW Co-Chairs: Phil Hattis and Kevin Wise	
4:10 pm – 4:50 pm	B.1 “Placing Americans on the Moon: A Look at the Technical and Political Contexts,” Phil Hattis, Draper
6:00 pm – 9:00 pm	<b>RECEPTION</b> – Main Cellar and Fireplace Lounge

## THURSDAY, 21 November 2024 – Day 2

07:00 am – 8:00 am	<b>BREAKFAST</b> - Arcade SE
7:50 am – 8:00 am	<b>Day 2 Introduction</b> Jeb Orr – ACGSC Chair
<b>SUBCOMMITTEE B – MISSILES AND SPACE</b> (Session 2 of 2) - Arcade NW Co-Chairs: Phil Hattis and Kevin Wise	
8:00 am – 8:40 am	B.2 “HLS CrewCo Lander Simulation (HCLS),” James Gentile, NASA/JSC
8:40 am – 9:20 am	B.3 “Reinforcement Learning Control of Hypersonic Vehicles and Performance Evaluations,” Brent Wallace, Raytheon
9:20 am – 9:40 am	Break
<b>SUBCOMMITTEE C – AVIONICS AND SYSTEMS INTEGRATION</b> - Arcade NW Co-Chairs: Raman Mehra and Jared Grauer	
9:40 am – 10:20 am	C.1 “Summary of NASA Engineering and Safety Center Interagency V&V Workshop,” Neil Dennehy, NESC - JHU/APL
10:20 am – 11:00 am	C.2 “Highlights of the FAA’s Aviation Safety Research and Development – Taking Research to a Reality,” Mike Paglione, FAA
11:00 am - 11:40 am	C.3 “The European New Air Data Monitoring (NADIR) Project,” Phillipe Goupil, Airbus
12:00 pm – 1:30 pm	<b>LUNCHEON</b> – Arcade SE <b>PAB LUNCHEON</b> – TBD
<b>SUBCOMMITTEE D – DYNAMICS, COMPUTATIONS, AND ANALYSIS</b> (Session 1 of 2) - Arcade NW Co-Chairs: Dave Doman, Mike Bolender, Dave Klyde, and Brian Lee	
1:50 pm – 2:30 pm	D.1 “Collision Avoidance for Advanced Air Mobility,” Raman Mehra, SSCI
2:30 pm – 3:10 pm	D.2 “Testing and Verifying Neural Network Control Systems,” Doug Wehbe, Stony Brook University
3:10 pm - ?	<b>Go explore Asheville!</b>

**FRIDAY, 22 November 2024 – Day 3**

08:00 am – 9:00 am	<b>BREAKFAST</b> - Arcade SE
8:50 am – 9:00 am	<b>Day 3 Introduction</b> Jeb Orr – ACGSC Chair
<b>SUBCOMMITTEE D – DYNAMICS, COMPUTATIONS, AND ANALYSIS</b> (Session 2 of 2) - Arcade NW Co-Chairs: Dave Doman, Mike Bolender, Dave Klyde, and Brian Lee	
9:00 am – 9:40 am	D.3 “Evaluation of an Advanced Helo Display for Zero-Zero Shipboard Landings,” Amanda Lampton, Systems Technology Inc.
<b>SUBCOMMITTEE E – FLIGHT, PROPULSION, AND AUTONOMOUS VEHICLE SYSTEMS</b> - Arcade NW Co-Chairs: John Valasek and Irene Gregory	
9:40 am - 10:20 am	E.1 “Disentangling Optimization Messines in Autonomy,” Evangelos Theodorou, Georgia Tech
10:20 am - 11:00 am	E.2 “Mission Aware Autonomy,” Isaac Weintraub (AFRL/RQQA)
11:00 am – 11:20 am	<b>Concluding Remarks</b>
11:30 am	<b>Adjourn</b>