



Aerospace Control and Guidance Systems Committee Meeting No. 133

**Fall 2024
Asheville, NC**

DRAFT AGENDA (11/10/24)

TUESDAY, 19 November 2024

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

Planning Advisory Board Members		
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

PAB Emeritus				
Shawn Donley	Ron Hess	Lou Knotts	Gavin Jenney	Dave Schmidt

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

THURSDAY, 21 November 2024 – Day 2

07:00 am – 8:00 am	BREAKFAST - Arcade SE
7:50 am – 8:00 am	Day 2 Introduction Jeb Orr – ACGSC Chair
SUBCOMMITTEE B – MISSILES AND SPACE (Session 2 of 2) - Arcade NW Co-Chairs: Phil Hattis and Kevin Wise	
8:00 am – 8:40 am	B.3 "Reinforcement Learning Control of Hypersonic Vehicles and Performance Evaluations," Brent Wallace, Raytheon
8:40 am – 9:20 am	B.4 "Persistent Challenges in Space Vehicle Dynamics and Control Verification and Validation," Jeb Orr, NESC
9:20 am – 9:40 am	Break
SUBCOMMITTEE C – AVIONICS AND SYSTEMS INTEGRATION - 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	LUNCHEON – Arcade SE PAB LUNCHEON – TBD
SUBCOMMITTEE D – DYNAMICS, COMPUTATIONS, AND ANALYSIS (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 "Testing and Verifying Neural Network Control Systems," Doug Wehbe, Storybook University
2:30 pm – 3:10 pm	D.2 "Evaluation of an Advanced Helo Display for Zero-Zero Shipboard Landings," Amanda Lampton, Systems Technology Inc.
3:10 pm - ?	Go explore Asheville!

FRIDAY, 22 November 2024 – Day 3

08:00 am – 9:00 am	BREAKFAST - Arcade SE
8:50 am – 9:00 am	Day 3 Introduction Jeb Orr – ACGSC Chair
SUBCOMMITTEE D – DYNAMICS, COMPUTATIONS, AND ANALYSIS (Session 2 of 2) - Arcade NW Co-Chairs: Dave Doman, Mike Bolender, Dave Klyde, and Brian Lee	
9:00 am – 9:40 am	D.4 “Mission Aware Autonomy,” Isaac Weintraub (AFRL/RQQA)
SUBCOMMITTEE E – FLIGHT, PROPULSION, AND AUTONOMOUS VEHICLE SYSTEMS - 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 “Amazon UAS Operations,” (TBR Title), Sankalp Bahn, Amazon
11:00 am – 11:20 am	Concluding Remarks
11:30 am	Adjourn