

Aerospace Control and Guidance Systems Committee Meeting No. 133 Fall 2024 Asheville, NC

FINAL AGENDA (11/19/24)

TUESDAY, 19 November 2024

07:00 pm -9:00 pm PLANNING ADVISORY BOARD MEETING - Arcade South

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 View	
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 Philip Goupil, Airbus Uday Shankar, NASA Engineering and Safety Center Raman Mehra, Scientific Systems Company, Inc. John Wall, NASA MSFC / Jacobs - Mclaurin Aerospace Greg Smolinski, Calspan 	
10:00 am – 10:20 am	Break	
10:20 - 11:00 am	Hurricane Helene Special Topic - Jared Rennie, NOAA Climatic Science and Services Division (CSSD)	
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		
	LUNCHEON – (Meet in Subcommittees) – Arcade SE	
JBCOMMITTEE A – AEI	LUNCHEON – (Meet in Subcommittees) – Arcade SE RONAUTIC AND SURFACE VEHICLES (Session 2 of 2) - Arcade NW	
JBCOMMITTEE A – AEI 1:50 pm – 2:30 pm	· · · · · · · · · · · · · · · · · · ·	
	RONAUTIC AND SURFACE VEHICLES (Session 2 of 2) - Arcade NW A.2 "X-57 Lessons Learned from a Flight Controls Perspective," James	
1:50 pm – 2:30 pm	RONAUTIC AND SURFACE VEHICLES (Session 2 of 2) - Arcade NW A.2 "X-57 Lessons Learned from a Flight Controls Perspective," James Reynolds, NASA Armstrong Flight Research Center (AFRC) A.3 "X-31 Flight Test History," Marge Draper-Donley, NAVAIR, and Oliver	
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THURSDAY	21 No	vember	2024 -	Day 2
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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.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

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 \ 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 "Collision Avoidance for Advanced Air Mobility," Raman Mehra, SSCI	

12:00 pm – 1:30 pm	LUNCHEON – Arcade SE
	PAB LUNCHEON – Fraga Boardroom

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 "The European New Air Data Monitoring (NADIR) Project," Phillipe Goupil, Airbus
2:30 pm – 3:10 pm	D.2 "Mission Aware Autonomy," Isaac Weintraub (AFRL/RQQA)

3:10 pm - ?	Go explore Asheville!
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FRIDAY, 22 November 2024 - Day 3

07:30 am – 8:30 am	BREAKFAST - Arcade SE	
8:20 am – 8:30 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		
8:30 am – 9:10 am	D.3 "Evaluation of an Advanced Helo Display for Zero-Zero Shipboard Landings," Amanda Lampton, Systems Technology Inc.	

SUBCOMMITTEE E – FLIGHT, PROPULSION, AND AUTONOMOUS VEHICLE SYSTEMS - Arcade NW Co-Chairs: John Valasek and Irene Gregory		
9:10 am - 9:50 am	E.1 "Disentangling Optimization Messines in Autonomy," Evangelos Theodorou, Georgia Tech	
9:50 am - 10:30 am	E.2 "Testing and Verifying Neural Network Control Systems," Doug Wehbe, Stony Brook University	
10:30 am - 11:10 am	E.3 "Uncommanded Pitch Oscillations in the F/A-18E/F: Search for Root Cause and Solution," Shawn Donley, NAVAIR (retired)	

11:10 am – 11:30 am	Concluding Remarks
11:30 am	Adjourn