



Aerospace Control and Guidance Systems Committee Meeting No. 135

Spring 2025

West Point, New York

DRAFT AGENDA (10/14/25)

TUESDAY, 21 October 2025

06:00 pm -8:00 pm	PLANNING ADVISORY BOARD MEETING - PDR or "Private Dining Room" at
-------------------	---

Chairman	John Valasek
Vice-Chairman	Haithem Taha (Online)
Immediate Past Chairman	Jeb Orr
Treasurer	Stan Pszczolkowski
Secretary	Kevin Duda

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

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

WEDNESDAY, 22 October 2025 – Day 1	
7:00 am – 8:00 am	REGISTRATION & BREAKFAST -
8:00 am – 8:30 am	GENERAL BUSINESS MEETING – John Valasek – ACGSC Chair
8:30 am – 9:30 am	<ul style="list-style-type: none"> - GENERAL COMMITTEE TECHNICAL SESSION – - Philippe Goupil and Oliver Brieger, Airbus - John Valasek, Texas A&M University - Eric Frew of University of Colorado Boulder - Tim McLain of Brigham Young University
9:30 am – 10:00 am	“The Architect of West Point,” Stan Pszczolkowski, FAA Retired
10:00 am – 10:20 am	Break -
Subcommittee D – DYNAMICS, COMPUTATIONS, AND ANALYSIS	
10:20 am – 11:00 am	D.1 “Precision Navigation Relative to Moving Vehicles,” Eric Johnson, Pennsylvania State University
11:00 am – 11:40 am	D.2 “Tactical Maneuvering under Limited Sensing and Communication,” Dipankar Maity, University of North Carolina, Charlotte
12:00 pm – 1:30 pm	LUNCHEON –
1:50 pm – 2:30 pm	D.3 “Bode Integrals for MIMO systems,” Eugene Lavretsky/Kevin Wise, Boeing (Virtual)
Subcommittee C - AVIONICS AND SYSTEM INTEGRATION	
2:30 pm - 3:10 pm	C.1 “Simple Neural Networks for Aircraft Control: opportunities and challenges”, Philippe, Airbus
3:10 pm – 3:30 pm	Break - Atlantis 1 & 2
Subcommittee E - FLIGHT, PROPULSION, AND AUTONOMOUS VEHICLE CONTROL SYSTEMS	
3:30 pm – 4:10 pm	E.1 “Ultra-Fast Path Planning for Autonomous Air Mobility and Sensing,” Eric Frew, University of Colorado Boulder
4:10 pm – 4:50 pm	Ward Award Lecture: “ ... ” Benjamin M. Simmons, NASA Langley
6:00 pm – 8:00 pm	RECEPTION –

THURSDAY, 23 October 2025 – Day 2	
07:00 am – 8:00 am	BREAKFAST -
7:50 am – 8:00 am	Day 2 Introduction John Valasek – ACGSC Chair
Subcommittee B - MISSILES AND SPACE	
8:00 am – 8:40 am	B.1 “Design of a CubeSat to Study Fuel Sloshing in Microgravity using a Closed-Loop CFD Simulator,” Laurent Burlion, Rutgers University
8:40 am – 9:20 am	B.2 “Guidelines and Considerations for Managing Cislunar GN&C Mission Reliability,” Philip Hattis, Draper
9:20 am – 9:40 am	Break - Atlantis 1 & 2
9:40 am – 10:20 am	B.3 “Dragonfly: Autonomous Flights of Exploration at Titan,” Zach Putnam, APL.
Subcommittee A – AERONAUTIC AND SURFACE VEHICLES	
10:20 am – 11:00 am	A.1 “Experimental Flight Control Design for DLR's VSS Aircraft ISTAR - Safety Assessment and Expected Performance,” Dominik Niedermeier, DLR
Subcommittee E - FLIGHT, PROPULSION, AND AUTONOMOUS VEHICLE CONTROL SYSTEMS	
11:00 am - 11:40 am	E.2 “Guardrails: Run Time Assurance (RTA) for advanced autonomy on the X-62A VISTA,” Andrew Singletary, 3Laws Robotics
12:00 pm – 1:30 pm	LUNCHEON – PAB LUNCHEON –
Subcommittee C - ROBOTICS AND AUTONOMOUS SYSTEMS	
1:50 pm – 2:30 pm	E.3 “Precise IR-Based Pose Estimation for VTOL Aircraft Landing,” Tim McLain, Brigham Youn University
Subcommittee D - AIRCRAFT AND AIRCRAFT SYSTEMS	
3:00 pm - 5:00 pm Tour!

FRIDAY, 24 October 2025 – Day 3
--

07:00 am – 8:00 am	BREAKFAST -
--------------------	--------------------

7:50 am – 8:00 am	Day 3 Introduction John Valasek – ACGSC Chair
-------------------	---

Subcommittee C - AVIONICS AND SYSTEM INTEGRATION

8:00 am – 8:40 am	C.2 “Machine Learning for weather routing,” Mo Kazemi, Merlin Labs
-------------------	--

8:40 am – 9:20 am	“Flight Control of an F16 without Prior Modeling Using Predictive Cost Adaptive Control,” Syed Aseem UI Islam, University of Michigan
-------------------	---

9:20 am - 9:40 am	Break -
-------------------	---------

9:40 am - 10:10 am	TBD
--------------------	-----

10:20 am - 10:50 am	TBD
---------------------	-----

10:40 am – 11:00 am	Concluding Remarks
---------------------	---------------------------

11:00 pm	Adjourn
----------	---------