



Aerospace Control and Guidance Systems Committee Meeting No. 130

Spring 2023

Missoula, MT

DRAFT AGENDA – March 2, 2023

TUESDAY, 21 March 2023

07:00 pm -9:00 pm	PLANNING ADVISORY BOARD MEETING – Russell Boardroom
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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	Phil Hattis	Dave Mitchell
Dave Doman	Dave Klyde	Brett Ridgely
Marge Draper-Donley	Brian Lee	Kevin Wise
Jared Grauer	Raman Mehra	Tansel Yucelen
Irene Gregory	Chris Miller	

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

WEDNESDAY, 22 March 2023 – Day 1

7:00 am – 8:30 am	Registration and Breakfast – Bitterroot Room
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8:30 am – 9:00 am	GENERAL BUSINESS MEETING – Bitterroot Room Jeb Orr – Chairman
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9:00 am – 11:00 am	GENERAL COMMITTEE TECHNICAL SESSION – Bitterroot Room <ul style="list-style-type: none"> • Marco Lotterio, Systems Technology, Inc. • Scott Condie, Virgin Galactic • Chris Miller, NASA AFRC • Jeb Orr, Mclaurin Aerospace
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11:00 am – 11:20 am	Break
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SUBCOMMITTEE A – AERONAUTIC AND SURFACE VEHICLES

Co-Chairs: Dave Mitchell and Chris Miller

Room: Bitterroot

11:20 am – 12:00 pm	A.1 “Automatic Air-Air-Refueling Capability on the A330 MRTT,” Oliver Brieger, Airbus
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12:10pm – 1:30 pm	LUNCHEON – (Meet in Subcommittees) – Blackfoot Room
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1:30 pm – 2:10 pm	A.2 “A Proposed Method of Compliance to Support Certification of Advanced Flight Controls in General Aviation and Hybrid Vehicles,” Marco Lotterio, Systems Technology, Inc.
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2:10 pm – 2:50 pm	A.3 “Investigating Effects of Instantaneous Center of Rotation Location on Handling Qualities for Up-and-Away Tasks,” Joey Duncan and Capt. Luke Babich, 773 TS/ENFA, US Air Force, Edwards AFB, CA.
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2:50 pm – 3:10 pm	Break
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3:10 pm – 3:50 pm	A.4 [TBD] Chris Miller, NASA AFRC
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SUBCOMMITTEE C – AVIONICS AND SYSTEM INTEGRATION (Session 1 of 2)

Co-Chairs: Raman Mehra and Jared Grauer

Room: Bitterroot

3:50 pm – 4:30 pm	C.1 “Active Flow Control,” Rene Woszidlo, Aurora Flight Sciences
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6:00 pm – 9:00 pm	RECEPTION – Blackfoot Room
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THURSDAY, 23 March 2023 – Day 2

07:00 am-8:30 am	Breakfast – Bitterroot Room
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SUBCOMMITTEE C – AVIONICS AND SYSTEM INTEGRATION (Session 2 of 2)	
Co-Chairs: Raman Mehra and Jared Grauer	
Room: Bitterroot	
8:30 am – 9:10 am	C.2 “Aerospace Fault Detection and Fault Tolerance Industrial Benchmark,” Phillipe Goupil, Airbus
9:10 am – 9:50 am	C.3 “Sustainability and Future Mobility,” Kevin Wise, Boeing
9:50 am – 10:30 am	C.4 “On The Emergence of AI Language Models as a Design Tool,” Jeb Orr, Mclaurin Aerospace

10:30 am – 10:40 am	Break
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SUBCOMMITTEE B – MISSILES AND SPACE	
Co-Chairs: Phil Hattis, Brett Ridgely, and Kevin Wise	
Room: Bitterroot	
10:40 am – 11:20 pm	B.1 “Flight Experience with Space Launch System Core Stage TVC,” John Wall, NASA MSFC (Mclaurin Aerospace/ESSCA)
11:20 am – 12:00 pm	B.2 “Survival Design and Strategies for Aborted Crewed Missions for Mars Exploration,” Phil Hattis, Draper

12:10 pm – 1:30 pm	LUNCHEON – Blackfoot Room PAB LUNCHEON – Russell Room
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1:30 pm – 2:10 pm	B.3 “Current JPL Guidance and Control Section Activities,” John Liu, NASA Jet Propulsion Laboratory
2:10 pm – 2:50 pm	B.4 “Dual Quaternion Guidance for the SPLICE Program,” Behcet Acikmese (U. Washington)

FRIDAY, 24 March 2023 – Day 3

07:00 am – 8:00 am	Breakfast – Bitterroot Room
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SUBCOMMITTEE D – DYNAMICS, COMPUTATIONS, AND ANALYSIS
Co-Chairs: Dave Doman, Mike Bolender, and Dave Klyde
Room: Bitterroot

8:00 am – 8:40 am	D.1 “Increasing the Availability of the Precision Landing Mode on the F/A-18E/F/G,” Jacques (Jack) Romano, Naval Air Warfare Center Aircraft Division
8:40 am – 9:20 am	D.2 “Design and Challenges of the Model Following Algorithm on the X-62 VISTA,” Chris Cotting, USAF Test Pilot School, Edwards AFB and Que Harris, Lockheed Martin ADP

9:20 am – 9:40 am	Break
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9:40 am – 10:20 am	D.3 “DARTS: A Versatile Dynamics Toolkit for Guidance and Control,” Carl Leake, NASA Jet Propulsion Laboratory
10:20 am – 11:00 am	D.4 “Decision Making Under Uncertainty with Application to Precision Airdrop and Beyond,” Adam Gerlach, USAF Air Force Research Laboratory, Aerospace Systems Directorate

11:00 am – 11:30 am	Adjourn
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