

**MEETING NO. 127 AGENDA**  
**AEROSPACE CONTROL AND GUIDANCE SYSTEMS COMMITTEE**  
**Bahia Resort Hotel, San Diego CA**  
**November 2021**

<b>TUESDAY, 2 November 2021</b>	
07:00 pm -9:00 pm	1.0 PLANNING ADVISORY BOARD MEETING - Shell Room

<b>Chairman</b>	Miotto, Piero
<b>Vice-Chairman</b>	Orr, Jeb
<b>Immediate Past Chairman</b>	DraperDonley, Marge
<b>Treasurer</b>	Pszczolkowski, Stan
<b>Secretary</b>	Duda, Kevin

<b>Planning Advisory Board Members</b>		
Bolender, Mike Ridgely, Brett Brieger, Oliver De Luca, Jan Doman, Dave Enns, Dale Grauer, Jared	Gregory, Irene Hattis, Phil Jacobson, Steve Klyde, Dave LeTron, Xavier Mehra, Raman Lee, Brian	Mitchell, Dave Paduano, James Valasek, John Wise, Kevin Yucelen, Tansel

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

<b>WEDNESDAY, 3 November 2021 – Day 1</b>	
07:00 am-8:30 am	2.0 Registration and Breakfast - Shell Room
8:30 am – 9:00 am	3.0 GENERAL BUSINESS MEETING - Shell Room Piero Miotto – Chairman
9:00 am -12:00 pm	4.0 GENERAL COMMITTEE TECHNICAL SESSION - Shell Room 4.1 Government Agencies Summary Reports 4.2 Research Institutions, Industry, and University Reports
12:00pm – 1:30pm	LUNCHEON – (Meet in Subcommittees) – Marina Beach
1:30 pm - 2:10 pm	TBD
<b>SUBCOMMITTEE D – DYNAMICS, COMPUTATIONS, AND ANALYSIS</b> <b>Chair: David Doman</b> <b>Shell Room</b>	
2:10 pm – 2:50 pm	D.1 “Computation and Aerospace Guidance”, Prof. Ping Lu, SDSU.
2:50 pm - 03:10 pm	Break
3:10 pm – 3:50 pm	D.2 “GA-ASI Automatic Takeoff and Landing Systems Overview”, Leon Alvarez , General Atomics Aeronautical Systems Inc.
3:50 pm – 4:30 pm	D.3 “Control of Scramjet Engines”, Prof. Maruthi Akella, University of Texas at Austin
4:30 pm – 5:10 pm	D.4 “A String Stable Control Algorithm to Achieve Persistent Monitoring.”, Maj. Shawn Stephens, USAF Test Pilot School
6:00 pm – 10:00 pm	RECEPTION – Pond/Shuffleboard Court

<b>THURSDAY, 4 November 2021 – Day 2</b>	
07:00 am-8:00 am	Breakfast
<b>SUBCOMMITTEE E – FLIGHT, PROPULSION, AND AUTONOMOUS VEHICLE CONTROL SYSTEMS</b> <b>Chair: John Valasek</b> <b>Shell Room</b>	
8:00 am – 8:40 am	E.1 Waiting confirmation from the author.
8:40 am – 9:20 am	E.2 Waiting confirmation from the author.
9:20 am – 10:00 am	E.3 Waiting confirmation from the author.
10:00 am – 10:20 am	Break
10:20 am – 11:00 am	E.4
<b>SUBCOMMITTEE A – AERONAUTIC AND SURFACE VEHICLES</b> <b>Chair: Steven Jacobson</b> <b>Shell Room</b>	
11:00 am – 11:40 am	A.1 “A Controls Approach to What and WHO Killed Kobe Bryant”, Angus Rupert, Embry Riddle Aeronautical University
11:40 am – 12:20 am	A.2 “Historical talk: Lunar Lander Research Vehicle“, Wayne Ottinger
12:20 pm – 2:00 pm	LUNCHEON – Marina Beach EXECUTIVE LUNCH – William D. Evans I
2:00 pm – 2:40 pm	A.3 “Resilient Autonomy in the Face of Adversity”, Ethan Williams, American Systems Corporation
2:40 pm – 3:20 pm	A.4 “X-56 Lesson Learned in Modeling and Flight,” Chris Miller, NASA Armstrong Flight Research Center

<b>SUBCOMMITTEE B – MISSILES AND SPACE</b> <b>Chair: Phil Hattis</b> <b>Shell Room</b>	
3:20 pm – 4:00 pm	B.1 TBD TITLE (one of two topic candidates), by Rekesb Ali, Mclaurin / NASA MSFC
4:00 pm – 4:20 pm	Break
4:20 pm – 5:00 pm	B.2 “Actuator Gear Error Compensation Via In-Situ Telemetry,” by Jeremy Sander, Northrop Grumman

<b>FRIDAY, 5 November 2021 – Day 3</b>	
07:00 am-8:00 am	Breakfast
<b>SUBCOMMITTEE B – MISSILES AND SPACE (cont.)</b>	
8:00 am – 8:40 am	B.3 “Challenges in the Application of Adaptive Flight Control to Missiles,” James Fisher, Raytheon
8:40 am – 9:20 am	B.4 “Estimating the Reusability of Space Systems with Hardware Degradation Models,” Ryan de Freitas Bart, Draper/MIT
<b>SUBCOMMITTEE C – AVIONICS AND SYSTEM INTEGRATION</b> <b>Chair: Raman Mehra</b> <b>Shell Room</b>	
9:20 am – 10:00 am	C.1 AI for Dogfighting, Chris DeMay, JHU/APL (Author to be confirmed)
10:00 am – 10:20 am	Break
10:20 am – 11:00 am	C.2. “Assured Autonomy,” Jim Paunicka, Boeing or Sandeep Neema, DARPA
11:00 am – 11:40 am	C.3 “A Theoretical Framework Unifying Handling Qualities, Workload, Stability, and Control,” Ed Bachelder, San Jose State University
11:40 am – 12:30 pm	C.4 <b>TBD</b>
12:30 pm – 1:00 pm	Adjourn