



172nd MEETING OF THE
AERONAUTICS AND SPACE ENGINEERING BOARD

October 17-18, 2023

Hybrid Meeting

In Person at the NASEM Beckman Center, 100 Academy Way, Irvine, CA; Huntington Room

Online via Zoom and Livestream

TUESDAY, OCTOBER 17, 2023

OPEN SESSION

Livestream Link: <https://vimeo.com/event/3792250>

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8:45 AM	Opening Remarks	Dr. Ilan Kroo ASEB Chair
8:50 AM	Briefing on <i>Ensuring the Future of Biological and Physical Sciences Research: A Decadal Survey for 2023 – 2032</i> <i>(30 minute presentation & 25 minute discussion period)</i>	BPS Decadal Co-chairs Dr. Robert Ferl Dr. Krystyn Van Vliet
9:45 AM	Short Break (15 minutes)	
10:00 AM	Update and Discussion with NASA Aeronautics Research Mission Directorate (ARMD) <i>(40 minute presentation & 30 minute discussion period)</i>	Dr. Edgar G. Waggoner Deputy AA for Programs NASA ARMD
11:10 AM	Short Break (15 minutes)	
11:25 AM	Federal Aviation Administration (FAA) Advanced Air Mobility Implementation Plan <i>(45 minute presentation & 20 minute discussion period)</i>	Ms. Sherri Magyarits Concept Developer NextGen, FAA
12:30 PM	Lunch Break (60 minutes)	

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- 1:30 PM** **NASA/ARMD University Leadership Initiative**
Panel description: An overview of the ULI program and success stories from 2 PIs
(15 minute presentations & 25 minute discussion period)
Panel Lead: **Dr. John Cavolowsky**
Director, Transformative Aero Program, NASA
Panelists: **Dr. Anthony Rollett**
Faculty Co-Director, Next Manufacturing Center, Carnegie Mellon University
Dr. Andrew Kitahara
Materials Engineer, Staff, Analytical Mechanics Associates
Dr. Karen Thole
University Distinguished Professor, Pennsylvania State University
Ms. Maria Rozman
NASA ULI Student Representative, Pennsylvania State University
- 2:40 PM Short Break (15 minutes)
- 2:55 PM** **Aeronautics Workforce: Talent, Recruitment, Training - An Academic Perspective**
Panel description: Education leaders from top producers of aerospace engineering degrees
on what is needed to foster the next generation of the workforce
(15 minute presentations & 25 minute discussion period)
Panelists: **Dr. Kelly Griendling**
Lecturer and Lead of the STEP Program, Georgia Institute of Technology
Dr. Karen Marais
Professor and Associate Head for Undergraduate Education, Purdue University
Mr. George Halow
Professor of Practice, Aerospace Engineering, University of Michigan
- 4:05 PM** **X-66A Sustainable Flight Demonstrator** **Mr. Brent Cobleigh**
(35 minute presentation & 20 minute discussion period) Program Manager, Armstrong Flight
Research Center, NASA
- 5:00 PM** **Day 1 Closing Remarks** **Dr. Ilan Kroo**
ASEB Chair
- 5:05 PM Public Meeting Adjourns

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10:00 AM	Opening Remarks	Dr. Ilan Kroo ASEB Chair
10:05 AM	Update and Discussion with NASA Space Technology Mission Directorate (STMD) <i>(40 minute presentation & 30 minute discussion period)</i>	Mr. Prasun Desai Acting Assoc. Administrator, NASA STMD Ms. Jenn Gustetic Director, Early Stage Innovations and Partnerships, NASA STMD
11:15 AM	Short Break (15 minutes)	
11:30 AM	Electrified Powertrain Flight Demo (EPFD) Overview and Future <i>(35 minute presentation & 20 minute discussion period)</i>	Ms. Gaudy Bezos-O'Connor Project Manager, EPFD NASA ARMD
12:30 PM	Lunch Talk: Digital Twins and Applications in Aerospace Engineering <i>Beckman Dining Room (60 minutes)</i>	Dr. Karen Willcox Director, Oden Institute for Computational Engineering and Sciences University of Texas at Austin
1:30 PM	Commercial Space Transportation Highlights <i>(30 minute presentation & 20 minute discussion period)</i>	Dr. Minh Nguyen Executive Director, Office of Strategic Management, Commercial Space Transportation, FAA
2:20 PM	Day 2 Closing Remarks	Dr. Ilan Kroo ASEB Chair
2:25 PM	Public Meeting Adjourns	

IMPORTANT NOTES

Presenters:

- Please do not include unpublished data, ITAR-controlled or sensitive information in your presentation.
- A National Academies Board staff member will ask you to sign a form before the meeting allowing us permission to use your likeness and presentation for our livestream video, which will be posted on our Board website after the meeting. Please get in touch with us before the meeting if you have any concerns about this usage.

Board Members and Presenters:

- Remote access will be provided through Zoom. This will allow you to participate in the meeting even if you can't be physically present.
- Please note that Zoom allows audio and any materials exchanged or viewed during the session to be recorded and shared.
- By participating in this activity, you agree to let your voice, likeness, and any materials you provide be recorded for use and dissemination. This includes any language, format, or media now known or later devised.
- You release the National Academies of Sciences, Engineering, and Medicine from any and all claims, liability, or damages arising from any such use. If you disagree, please do not join the session.

Thank you all for your cooperation, and we look forward to a successful meeting.