



## 173<sup>rd</sup> MEETING OF THE AERONAUTICS AND SPACE ENGINEERING BOARD

June 11-12, 2024

NASEM Keck Center, 500 5<sup>th</sup> Street NW., Washington, DC

TUESDAY, JUNE 11, 2024 - KECK ROOM 100

### OPEN SESSION

Livestream Link: <https://vimeo.com/event/4313346>

CLICK HERE TO JOIN

9:30 AM	<b>Welcome</b>	<b>Dr. Ilan Kroo, ASEB Chair</b>
9:30 AM	<b>NASA Aeronautics Research Mission Directorate Update &amp; Outlook</b> <i>(30 minutes for presentation and 30 minutes for discussion)</i>	<b>Mr. Robert Pearce</b> Associate Administrator, ARMD NASA
10:30 AM	Break (15 minutes)	
10:45 AM	<b>Odysseus Lunar Lander Mission</b> <i>(30 minutes for presentation and 30 minutes for discussion)</i>	<b>Dr. Timothy Crain</b> Chief Technology Officer Intuitive Machines
11:45 AM	Break to serve working lunch (20 minutes to gather food and return)	
12:05 PM	<b>LUNCH TALK</b> <b>Methods to Improve Risk Management and Safety Assurance: In-Time Aviation Safety Management Systems</b> <i>(30 minutes for presentation and 25 minutes for discussion)</i>	<b>Dr. Kyle Ellis</b> Project Manager, System-Wide Safety, ARMD, NASA
1:00 PM	<b>Air Traffic Modernization</b> - Vision Alignment - How NASA works with FAA - The path forward through Info-Centric NAS to Sky for All <i>(30 minutes for each presentation and 30 minutes for discussion)</i>	<b>Mr. Akbar Sultan</b> Director, Airspace Operations and Safety Program, ARMD, NASA <b>Mr. Steve Bradford</b> Chief Scientist for Architecture and NextGen Development, FAA

**172<sup>nd</sup> Meeting of the Aeronautics and Space Engineering Board**  
**October 17-18, 2023**

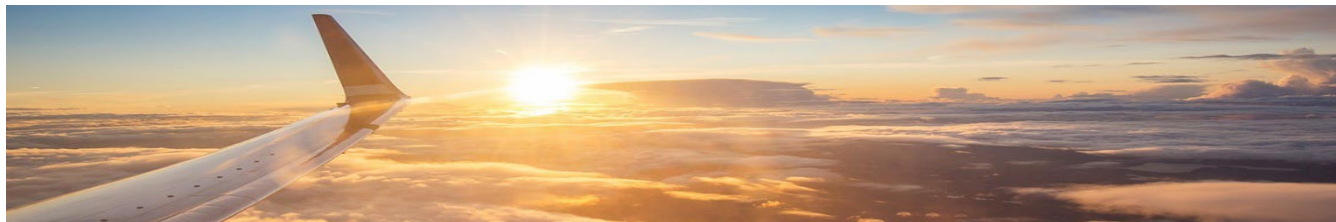
2:30 PM Break (15 minutes)

**2:45 PM Status and Advances in Commercial Supersonic Technology** **Ms. Lori Ozoroski**  
(30 minutes for presentation and 30 minutes for discussion) Project Manager, Commercial  
Supersonic Technology, ARMD, NASA

**3:45 PM Science & Technology Talk: Dragonfly** **Dr. Ralph Lorenz**  
(30 minutes for presentation and 15 minutes for discussion) Dragonfly Mission Architect, JHU APL

4:30 PM OPEN MEETING ADJOURNS

**172<sup>nd</sup> Meeting of the Aeronautics and Space Engineering Board  
October 17-18, 2023**



**WEDNESDAY, JUNE 12, 2024 - KECK ROOM 100**

---

**OPEN SESSION**

Livestream Link: <https://vimeo.com/event/4313351>

**CLICK HERE TO JOIN**

<b>9:30 AM</b>	<b>Welcome</b>	<b>Dr. Ilan Kroo, ASEB Chair</b>
<b>9:35 AM</b>	<b>NASA Space Technology Mission Directorate Update &amp; Outlook</b> <i>(30 minutes for presentation and 25 minutes for discussion)</i>	<b>Dr. Kurt “Spuds” Vogel</b> Associate Administrator, STMD NASA
<b>10:30 AM</b>	Break (15 minutes)	
<b>10:45 AM</b>	<b>Panel on Sustainable Aviation Including Fuels &amp; Alternate Sources</b> <i>(10 minutes for each presentation and 35 minutes for discussion)</i> <b>Panelists:</b> <b>Dr. Anna Oldani, FAA</b> <b>Dr. Rich Wahls, NASA</b> <b>Mr. Kevin Welsh (JD), A4A</b> <b>Dr. Alan H Epstein, MIT</b>	
<b>12:00 PM</b>	Break to serve working lunch (15 minutes to gather food and return)	
<b>12:15 PM</b>	<b>LUNCH TALK</b> <b>Unlocking the Secrets of a Metal World: How Mission Teamwork and Culture Inspired the NASA Psyche Mission Launch Journey</b> <i>(20 minutes for presentation and 15 minutes for discussion)</i>	<b>Dr. Lindy Elkins-Tanton</b> Psyche Principal Investigator Foundation and Regents Professor School of Earth and Space Exploration Arizona State University
<b>1:00 PM</b>	<b>NASA Aeronautics Engaging with Academia: The University Innovation Project</b> <i>(25 minutes for presentation and 20 minutes for discussion)</i>	<b>Mr. Koushik Datta</b> Project Manager, University Innovation ARMD, NASA

**172<sup>nd</sup> Meeting of the Aeronautics and Space Engineering Board**  
**October 17-18, 2023**

**1:45 PM**      **ML/AI Applications for Operations and Safety**  
*(40 minutes for presentation and 20 minutes for discussion)*

**Dr. Parimal Kopardekar**  
Advanced Air Mobility Mission  
Integration Manager, ARMD, NASA  
**Mr. Raj Pai**  
Senior (Chief) Technologist, Aviation  
Systems Division, ARMD, NASA

**2:45 PM**      **OPEN MEETING ADJOURNS**

---

**IMPORTANT NOTES**

**Presenters:**

- Please do not include 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.**