

FALL MEETING OF THE AERONAUTICS AND SPACE ENGINEERING BOARD

170th Meeting

October 19-20, 2022

Hybrid Meeting

NAS Beckman Center, 100 Academy Way, Irvine, California 92617

ALL TIMES IN US PACIFIC DAYLIGHT TIME (UTC-7:00), Last update 10/13/22

AGENDA

WEDNESDAY, OCTOBER 19, 2022

OPEN SESSION

Beckman Board Room

Livestream: <https://vimeo.com/event/2474343>

9:55 AM	Opening Remarks	<i>Dr. Ilan Kroo, ASEB Chair</i>
10:00 AM	Update and Discussion with NASA Aeronautics Research Mission Directorate (ARMD) <i>Introduced by Dr. Ilan Kroo</i> (40 minute presentation & 30 minute discussion period)	<i>Mr. Ed Waggoner, Deputy Associate Administrator for Programs, NASA-ARMD</i>
11:10 AM	Short Break (10 minute break)	
11:20 AM	Sustainable Flight National Partnership Activities (25 minute presentation & 20 minute discussion period) <i>Introduced by Dr. Edward Crawley</i>	<i>Dr. Rich Wahls, Mission Integration Manager, Sustainable Flight National Partnership, NASA-ARMD</i>
12:05 PM	Working Lunch – Beckman Board Room (60 minute break)	
1:05 PM	Panel 1: Impact of Aviation on Atmosphere and Global Climate (15-minute presentations & 30-minute discussion period) <i>Panel Introduced by Dr. Darryll Pines</i> Panelists: <i>Dr. Sebastian Eastham, Research Scientist, Laboratory for Aviation and the Environment, MIT</i> <i>Dr. Prem Lobo, Office of Environment and Energy, FAA</i> <i>Prof. Dr. Christiane Voigt, Head of Department, Cloud Physics, Institute of Atmospheric Physics, German Aerospace Center</i>	
2:20 PM	Short Break (10 minute break)	

2:30 PM **Advanced Aerial Mobility and Sustainability**
(25 minute presentation & 20 minute discussion period)
Introduced by Dr. Anthony Waas

*Dr. Eric Allison, Head of Product,
Joby Aviation*

3:15 PM **Day 1 Closing Remarks** *Dr. Ilan Kroo, ASEB Chair*

3:20 PM *Board Adjourns to Executive Session*



THURSDAY, OCTOBER 20, 2022**OPEN SESSION**
Beckman Board Room*Livestream: <https://vimeo.com/event/2474343>*

9:50 AM	Opening Remarks	<i>Dr. Ilan Kroo, ASEB Chair</i>
10:00 AM	Update and Discussion with NASA Space Technology Mission Directorate (STMD) (40 minute presentation & 30 minute discussion period) <i>Introduced by Dr. Ilan Kroo</i>	<i>Mr. Jim Reuter, Associate Administrator, NASA-STMD</i>
11:10 AM	Short Break (10-minute break)	
11:20 AM	Space Debris Management Strategy (30 minute presentation & 30 minute discussion period) <i>Introduced by William Gray</i>	<i>Dr. Ezinne Uzo-Okoro, Assistant Director for Space Policy, OSTP</i>
12:20 PM	Working Lunch – Beckman Board Room (60-minute break)	
1:20 PM	Artemis Mission Architecture and Technology Development (25 minute presentation & 20 minute discussion period) <i>Introduced by David Thompson</i>	<i>Mr. N. Wayne Hale, Jr., Chair, Human Exploration and Operations Committee, NAC</i>
2:05 PM	Break (30-minute break)	
2:35 PM	Panel 2: Developments in Vertical Lift Technology in Non-Earth Atmospheres (15-minute presentations & 30-minute discussion period) <i>Panel Introduced by Nick Lappos</i> Panelists: <i>Mr. Ken Hibbard, Project Systems Engineer, Dragonfly, JHU/APL</i> <i>Mr. Bob Balaram, Chief Engineer, Mars Ingenuity, Caltech/JPL</i> <i>Ms. Haley Cummings, Principle Investigator, Rotorcraft Optimization for the Advancement of Mars Exploration (ROAMX) Project, NASA-Ames</i>	
3:50 PM	Day 2 Closing Remarks	<i>Dr. Ilan Kroo, ASEB Chair</i>
3:55 PM	Board Adjourns to Executive Session	