NATIONAL ACADEMIES

171st MEETING OF THE AERONAUTICS AND SPACE ENGINEERING BOARD

June 6, 2023

Hybrid Meeting

In Person at the NASEM Keck Center, 500 5th Street NW, Washington, DC 20001, Room 100

Online via Zoom and Livestream

All times Eastern Time Zone

TUESDAY, JUNE 6, 2023

OPEN SESSION Livestream Link: <u>https://vimeo.com/event/3391279</u>

CLICK HERE TO JOIN

9:35 AM WELCOME

DR. ILAN KROO, ASEB CHAIR

9:35 AM NASA Aeronautics Research Mission Directorate Dr. Ed Waggoner FY24 Budget Overview Deputy Associate Administrator Introduced by Dr. Ilan Kroo for Programs, ARMD, NASA ARMD Roundtable (65 minutes for all presentations and 20 minutes for Q&A) Moderator: Ms. Barbara Esker, Assistant Deputy Associate Administrator for Missions

- Panelists:Ms. Maureen Kudlac, Acting Deputy Director, Advanced Air Vehicles Program
Mr. Lee Noble, Director, Integrated Aviation Systems Program
Dr. John Cavolowsky, Director, Transformative Aeronautics Concepts Program
Mr. Akbar Sultan, Director, Airspace Operations and Safety Program
Dr. Ron Colantonio, Director, Aerosciences Evaluation & Test Capabilities
Portfolio
- **11:00 AM NASA Wildland Fire Initiative** (35 minute presentation and 25 minute discussion)

Dr. Marcus Johnson ARMD, NASA

12:00 PM Break for Lunch (60 minutes)

1:00 PM	NASA STMD Budget Status and L (50 minutes for all presentations and 25	FMD Budget Status and Updates es for all presentations and 25 minutes for Q&A)	
	Overview	Dr. Prasun Desai, Deputy Associate Administrator, STMD	
	Lunar Infrastructure	Dr. Niki Werkheiser, Director, Technology Maturation	
	Nuclear Power and Propulsion	Dr. Anthony Calomino, Space Nuclear Technologies Lead	
	LOFTID Results and Follow-on Entry, Descent & Landing Activities	Mr. Joe Del Corso, LOFTID Project Manager, LaRC	
	Wrap Up:	Dr. Prasun Desai	
2·15 PM	Closing remarks	Dr. Ilan Kroo	

2:15 PM Closing remarks Dr. Ilan Kroo

OPEN MEETING ADJOURNS



JOINT SPRING MEETING

AERONAUTICS AND SPACE ENGINEERING BOARD (171st Meeting) and SPACE STUDIES BOARD (186th Meeting) June 7, 2023 Hybrid Meeting In Person at the NASEM Keck Center, 500 5th Street NW, Washington, DC 20001, Room 100 Online via Zoom and Livestream All times Eastern Time Zone

WEDNESDAY, JUNE 7, 2023

OPEN SESSION Livestream Link: <u>https://vimeo.com/event/3391291</u>

CLICK HERE TO JOIN

9:30 AM	WELCOME AND	OPENING REMARKS	DR. MARGY KIVELSON, SSB CHAIR DR. ILAN KROO, ASEB CHAIR
9:35 AM	(ESDMD) and Ar Introduced by Dr.	on Systems Development Mission Di temis Program Update Margy Kivelson, SSB Chair ation and 30 minute discussion)	rectorate Mr. Jim Free Associate Administrator ESDMD, NASA
10:45 AM	Break (20 minutes	5)	
11:05 AM	Mars Sample Return (MSR) Status and Update Introduced by Dr. Margy Kivelson, SSB ChairMr. Jeff Gramling, MSR Program Director Dr. Michael Meyer, MSR Lead Scientist Mr. Richard Cook, Director of MSR Program Office(45 minute presentation and 20 minute discussion)Mr. Richard Cook, Director of MSR Program Office		
12:10 PM	Break for Lunch (65 minutes)	
1:15 PM	Update from Congressional Staff Introduced by Dr. Ilan Kroo, ASEB Chair (25 minutes for all presentations and 25 minutes for Q&A)		
	Panelists:	 Mr. Brent Blevins, Majority Staff Director, House Subcommittee on Space and Aeronautics Ms. Pamela Whitney, Minority Staff Director, House Subcommittee on Space and Aeronautics Mr. Richard-Duane Chambers, Staff member, Senate Space and Science Subcommittee (invited) 	

Aeronautics and Space Engineering Board (171st meeting) Space Studies Board (186th meeting) Joint Spring Meeting, June 7, 2023

2:05 PM	Panel on Space Weather Panel Introduced by Ilan Kroo (30 minutes for all presentations and 25 minutes for Q&A)		
	Panelists:	Dr. Thomas Paul O'Brie Dr. Hazel Bain , NOAA Sβ	al Center for Atmospheric Research n, III , The Aerospace Corporation ace Weather Prediction Center onal Center for Atmospheric Research High
2:50 PM	Break (20 minutes)		
3:10 PM	Panel on Quantum Computation and AI: Advances and Applications Introduced by Dr. Ilan Kroo, ASEB Chair (60 minutes for all presentations and 20 minutes for Q&A)		
	Panelists:	 Dr. John Preskill, Richard P. Feynman Professor of Theoretical Physics, California Institute of Technology Dr. Aleksandra Faust, Senior Staff Research Scientist, Google Brain Research Dr. John Tylko, Chief Innovation Officer, Aurora Flight Sciences (Boeing) Dr. David Mindell, Professor of Aeronautics and Astronautics, Massachusetts Institute of Technology 	
4:30 PM	NASA Deputy Administrator Update Introduced by Dr. Margy Kivelson, SSB Chair (15 minute presentation and 15 minute discussion)		
5:00 PM	Closing Rema	rks	Dr. Margy Kivelson, SSB Chair Dr. Ilan Kroo, ASEB Chair Dr. Colleen Hartman, ASEB and SSB Director

OPEN MEETING ADJOURNS

NATIONAL ACADEMIES

186th MEETING OF THE SPACE STUDIES BOARD

June 8-9, 2023

Hybrid Meeting

In Person at the NASEM Keck Center, 500 5th Street NW, Washington, DC 20001, Room 100

Online via Zoom and Livestream

All times Eastern Time Zone

THURSDAY, JUNE 8, 2023

OPEN SESSION Livestream Link: <u>https://vimeo.com/event/3391298</u>

- 9:30 AM Welcome and Opening Remarks
- 9:40 AM Jupiter Icy Moons Explorer (JUICE) Mission Update (35 minute presentation and 15 minute discussion)
- 10:30 AM Break (30 minutes)
- 11:00 AM Update and Discussion with NASA Science Mission Directorate (SMD) Introduced by Dr. Margy Kivelson, SSB Chair (30 minute presentation and 30 minute discussion)

Open Meeting Adjourns for Lunch (70 minutes) **SSB meets in Executive Session during Lunch** **CLICK HERE TO JOIN**

Dr. Margy Kivelson, SSB Chair

Dr. Olivier Witasse Project Scientist, JUICE Mission, ESA

Dr. Nicola Fox Associate Administrator, SMD, NASA

Livestream Link: https://vimeo.com/event/3391298

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1:10 PM Introduction

OPEN SESSION

1:15 PM Update from the Committee on Astronomy and Astrophysics (10 minute presentation and 5 minute discussion) Dr. Margy Kivelson, SSB Chair

Dr. Alycia Weinberger / Dr. Chris McKee CAA Co-Chairs

186th meeting of the Space Studies Board June 8, 2023

1:30 PM	Update from the Committee on Solar and Space Physics (10 minute presentation and 5 minute discussion)	Dr. James Clemmons CSSP Co-Chair
1:45 PM	Update from the Committee on Earth Science and Applications from Space (10 minute presentation and 5 minute discussion)	Dr. Everette Joseph CESAS Co-Chair
2:00 PM	Update from the Committee on Astrobiology and Planetary Science (10 minute presentation and 5 minute discussion)	Dr. Martha Gilmore / Dr. Karyn Rogers CAPS Co-Chairs
2:15 PM	Update from the Committee on Biological and Physical Sciences in Space (10 minute presentation and 5 minute discussion)	Dr. Jessica Scott / Dr. Douglas Matson CBPSS Co-Chairs
2:30 PM	Update from the Committee on Planetary Protection (10 minute presentation and 5 minute discussion)	Dr. Len Fisk CoPP Co-Chair
2:45 PM	Closing remarks	Dr. Margy Kivelson, SSB Chair

OPEN MEETING ADJOURNS

186th meeting of the Space Studies Board June 9, 2023

FRIDAY, JUNE 9, 2023

OPEN SESSION Livestream Link: <u>https://vimeo.com/event/3391305</u>		CLICK HERE TO JOIN
10:45 AM	Welcome and Opening Remarks	Dr. Margy Kivelson, SSB Chair
10:50 AM	Parker Solar Probe: Ushering in a New Fron (35 minute presentation and 25 minute discussion)	tier Dr. Nour Raouafi PSP Project Scientist Johns Hopkins Applied Physics Laboratory
12:00 PM	Working Lunch (60 minutes) Board Members and Speakers lunch provided outside Room 100	
1:00 PM	Dark Skies Initiative (30 minute presentation and 15 minute discussion)	Dr. Teznie Pugh and Dr. Aparna Venkatesan Co-chairs of AAS Committee to Protect Astronomy and Space Environments (COMPASSE)
1:45 PM	Closing remarks	Dr. Margy Kivelson, SSB Chair

MEETING ADJOURNS