

188th MEETING OF THE SPACE STUDIES BOARD

June 5-7, 2024

Hybrid Meeting

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

Online via Zoom and Livestream

All times EASTERN

WEDNESDAY, JUNE 5, 2024

OPEN SESSION

Livestream Link: <https://vimeo.com/event/4313320>

CLICK HERE TO JOIN

11:00 AM Meeting Room Opens to Public

12:00 PM Welcome and Opening Remarks

Dr. Margy Kivelson, SSB Chair

12:05 PM LUNCH KEYNOTE

**In-space Servicing, Assembly, and Manufacturing (ISAM)
Consortium for Space Mobility and ISAM
Capabilities (COSMIC)**
(35-minute presentation and 20-minute discussion)

Mr. Greg Richardson
ISAM Principal Engineer
The Aerospace Corporation
Executive Director, COSMIC

Dr. Henry Helvajian
Technical Fellow/Principal Scientist, The Aerospace Corporation
Co-lead, Research and Technology, COSMIC

1:00 pm Break (15 minutes)

1:15 PM **Mars Sample Return Independent Review
Board Report—SMD Response**
(30-minute presentation and 30-minute discussion)

Ms. Sandra Connelly
Deputy Associate Administrator
SMD, NASA

2:15 PM **National Science Foundation Astrophysics Update**
(35-minute presentation and 20-minute discussion)

Dr. R. Chris Smith
Interim Division Director, Division of
Astronomical Sciences, MPS, NSF

3:15 PM Break (15 minutes)

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3:30 PM

Update from Congressional Staff

(10-minute presentations each and 30-minute discussion)

Panelists:

Mr. Tom Hammond

Senior Adviser to the Chair, House Subcommittee on Space and Aeronautics

Ms. Pamela Whitney

Minority Staff Director, House Subcommittee on Space and Aeronautics

Mr. David A Turner

Senior Professional Staff Member (Majority), Space and Science Subcommittee,
Senate Committee on Commerce, Science, and Transportation

4:30 PM

Closing Remarks

Dr. Margy Kivelson, SSB Chair
Dr. Colleen Hartman, SSB Director

4:35 PM

OPEN MEETING ADJOURNS

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THURSDAY, JUNE 6, 2024

OPEN SESSION

Livestream Link: <https://vimeo.com/event/4313324>

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- 9:45 AM *Meeting Room Opens to Public*
- 9:50 AM **Welcome and Opening Remarks** **Dr. Margy Kivelson**, SSB Chair
- 9:55 AM **Europa Clipper Mission Update**
(35-minute presentation and 20-minute discussion) **Mr. Jordan Evans**, Project Manager
Dr. Robert Pappalardo, Project Scientist
NASA/JPL
- 10:50 AM *Break (15 minutes)*
- 11:05 AM **National Space Council's Users Advisory Group Update**
(30-minute presentation and 30-minute discussion) **General Lester Lyles (USAF, Ret)**
Users Advisory Group Chair
- 12:00 PM *Working Lunch (60 minutes)*
- 1:00 PM **SSB Discipline Committees Panel**
Each set of co-chairs will discuss two overarching challenges and possible actions in their arena.
(10-minute presentations each and 45-minute discussion)
Panelists: **Dr. Rachel A Osten / Dr. Alycia Weinberger**
Committee on Astronomy and Astrophysics Co-Chairs
Dr. James Clemmons
Committee on Solar and Space Physics Co-Chair
Dr. William B Gail/Dr. Anne W Nolin
Committee on Earth Science and Applications from Space Co-Chairs
Dr. Martha Gilmore/Dr. Karyn Rogers
Committee on Astrobiology and Planetary Science, Co-Chairs
Dr. Douglas Matson / Dr. Jessica Scott
Committee on Biological and Physical Sciences in Space Co-Chairs
Dr. Amanda R Hendrix/ Dr. Len Fisk
Committee on Planetary Protection Co-Chairs
Dr. Margy Kivelson
SSB Chair, Moderator
- 2:45 PM **Status of the Space Weather Roundtable**
(10-minute presentation and 10-minute discussion) **Dr. Geoffrey Crowley/ Dr. Sarah Gibson**
Roundtable Chairs
- 3:05 PM **Closing remarks** **Dr. Margy Kivelson**, SSB Chair
- 3:15 PM *OPEN MEETING ADJOURNS*

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FRIDAY, JUNE 7, 2024

OPEN SESSION

Livestream Link: <https://vimeo.com/event/4313330>

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9:30 AM *Meeting Room Opens to Public*

9:35 AM **Welcome and Opening Remarks**

Dr. Margy Kivelson, SSB Chair

9:35 AM **NASA Deputy Administrator Update**
(15-minute presentation and 10-minute discussion)

Col. Pam Melroy
Deputy Administrator, NASA

10:05 AM *Break (15 minutes)*

10:20 AM **Update and Discussion with NASA Science Mission Directorate (SMD)**
(40-minute presentation and 30-minute discussion)

Dr. Nicola Fox
Associate Administrator, SMD, NASA

11:30 AM *Open Meeting Recess*
SSB meets in Executive Session during Lunch

OPEN SESSION

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1:20 PM **NASA Exploration Systems Development Mission Directorate (ESDMD) and Artemis Program Update**
(40-minute presentation and 30-minute discussion)

Ms. Catherine Koerner
Associate Administrator ESDMD, NASA

2:30 PM **Climate Change in 2024: Do we understand what's happening and why?**
(25-minute presentation and 20-minute discussion)

Dr. Gavin Schmidt
Director, NASA Goddard Institute for Space Studies (GISS)

3:15 PM **Closing Remarks**
OPEN MEETING ADJOURNS

Dr. Margy Kivelson, SSB Chair

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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.

Members of the General Public:

- Remote access will be provided through a live stream on Vimeo. This will also be publicly available and posted on the Board website. You do not need to register.

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