

189TH MEETING OF THE SPACE STUDIES BOARD

November 19-20, 2024

Hybrid Meeting

In Person at the NASEM Beckman Center, Irvine, CA

Online via Zoom and Livestream

All Times PT

TUESDAY, NOVEMBER 19, 2024

SSB OPEN SESSION

Livestream Link: <https://vimeo.com/event/4621894>

[CLICK HERE TO JOIN](#)

9:45 AM	Meeting Room Opens to Public	
10:00 AM	Opening Remarks	Dr. Margy Kivelson, SSB Chair
10:05 AM	Update and Discussion with NASA Science Mission Directorate (SMD) (35 minute presentation and 25 minutes for Q&A)	Dr. Nicola Fox* Associate Administrator, SMD, NASA
11:05 AM	Break (15 minutes)	
11:20 AM	Update and Discussion with NOAA National Environmental Satellite, Data, and Information Service (NESDIS) (30 minute presentation and 15 minutes for Q&A)	Dr. Stephen Volz* Assistant Administrator, Satellite and Information Services, NOAA
12:05 PM	Lunch Break	
12:20 PM	Lunch Presentation: Update from the Bipartisan Commission on Biodefense (20 minute presentation and 10 minutes for Q&A)	Dr. Asha M. George Executive Director Bipartisan Commission on Biodefense
12:50 PM	Break (10 minutes)	
1:00 PM	ESA's Jupiter Icy Moons Explorer (Juice) Mission Update (25 minute presentation and 15 minutes for Q&A)	Dr. Olivier Witasse* Dr. Claire Vallat* Juice Project Scientists, ESA
1:40 PM	Plasma Acceleration in Near-Earth Space (25 minute presentation and 15 minutes for Q&A)	Dr. Vassilis Angelopoulos Professor, Earth, Planetary, and Space Sciences Dept., University of California, Los Angeles
2:20 PM	Break (15 minutes)	

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2:35 PM	New Horizons Science to Date <i>(25 minute presentation and 15 minutes for Q&A)</i>	Dr. Alan Stern* Associate Vice President, Space Sector Southwest Research Institute
3:15 PM	Space Sustainability/Orbital Debris at NOAA <i>(20 minute presentation and 10 minutes for Q&A)</i>	Mr. Richard Dalbello* Director, Office of Space Commerce, NOAA
3:45 PM	Space Sustainability/Orbital Debris at NASA <i>(20 minute presentation and 10 minutes for Q&A)</i>	Mr. B. Alvin Drew, Jr. Director, Space Sustainability Division SOMD, NASA
4:15 PM	SSB Open Meeting Adjourns	

JOINT MEETING OF THE SPACE STUDIES BOARD and the BOARD ON PHYSICS AND ASTRONOMY

November 20-21, 2024

Hybrid Meeting

In Person at the NASEM Beckman Center, Irvine, CA

Online via Zoom and Livestream

All Times PT

WEDNESDAY, NOVEMBER 20, 2024

JOINT SSB-BPA OPEN SESSION

Livestream Link: <https://vimeo.com/event/4621899>

[CLICK HERE TO JOIN](#)

9:30 AM	Meeting Room Opens to Public	
9:45 AM	Welcome and Opening Remarks	Dr. Margy Kivelson , SSB Chair Dr. Jill Dahlburg , BPA Chair
9:50 AM	Status of the Space Weather Roundtable <i>(10 minute presentation and 5 minutes for Q&A)</i>	Dr. Sarah Gibson Roundtable Co-Chair
10:05 AM	Gravitational Waves and Laser Interferometer Space Antenna (LISA) <i>(25 minute presentation and 20 minutes for Q&A)</i>	Dr. Ira Thorpe* LISA Project Scientist, Goddard SFC, NASA Dr. Nora Lützendorf* LISA Project Scientist, ESA
10:50 AM	Break <i>(20 minutes)</i>	
11:10 AM	Discipline Committees Panel <i>(10 minute presentations and 20 minutes for Q&A)</i> Each set of co-chairs will discuss two overarching challenges and possible actions in their arena. - How will their Decadal Survey decision rules fare if budgets decline? - What additional assistance can our National Academies Boards and Committees provide to the agencies and the community?	Moderator: Dr. Margy Kivelson SSB Chair
	Committee on Astronomy and Astrophysics	Dr. Rachel Osten , CAA Co-Chair
	Committee on Solar and Space Physics	Dr. James Clemmons , CSSP Co-Chair
	Committee on Earth Science and Applications from Space	Dr. Anne Nolin , CESAS Co-Chair
	Committee on Astrobiology and Planetary Science	Dr. Marty Gilmore* , CAPS Co-Chair Dr. Karyn Rogers* , CAPS Co-Chair
	Committee on Biological and Physical Sciences in Space	Dr. Jessica Scott* , CBPSS Co-Chair
	Committee on Planetary Protection	Mr. David P. Fidler , CoPP Co-Chair

Joint Meeting of the Space Studies Board and the Board on Physics and Astronomy
November 21-22, 2024

12:30 PM	Lunch Break <i>(60 minutes)</i>	
1:30 PM	Report Briefing: NASA at a Crossroads Maintaining Workforce, Infrastructure, and Technology Preeminence in the Coming Decades <i>(25 minute presentation and 20 minutes for Q&A)</i>	Mr. Norm Augustine* Committee Chair
2:15 PM	Committee on Radio Frequencies Update <i>(10 minute presentation and 5 minutes for Q&A)</i>	Dr. Scott Paine* CORF Chair
2:30 PM	LEO Spacecraft Proliferation and its Impact on Astronomy Observations (Dark Skies) <i>(25 minute presentation and 15 minutes for Q&A)</i>	Dr. Connie Walker Scientist, NSF's NOIRLab
3:10 PM	Report Briefing: Thriving on Our Changing Planet A Midterm Assessment of Progress Toward Implementation of the Decadal Survey <i>(20 minute presentation and 10 minutes for Q&A)</i>	Dr. Christian D. Kummerow Dr. Anna M. Michalak Committee Co-Chairs
3:40 PM	Open Meeting Adjourns	

Joint Meeting of the Space Studies Board and the Board on Physics and Astronomy
November 21-22, 2024

THURSDAY, NOVEMBER 21, 2024

JOINT SSB-BPA OPEN SESSION

Livestream Link: <https://vimeo.com/event/4621906>

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8:00 AM	Meeting Room Opens to Public	
8:25 AM	Opening Remarks	Dr. Margy Kivelson , SSB Chair Dr. Jill Dahlburg , BPA Chair
8:30 AM	NASA Astrophysics Update <i>(25 minute presentation and 20 minutes for Q&A)</i>	Dr. Mark Clampin* Astrophysics Division Director, NASA HQ
9:15 AM	NSF Astronomy Update <i>(25 minute presentation and 20 minutes for Q&A)</i>	Dr. R. Chris Smith* Astronomical Sciences Division Interim Director MPS, NSF
10:00 AM	Break <i>(15 minutes)</i>	
10:15 AM	Spectrum Management at the NSF/NASA/NOAA Panel <i>(15 minute presentations and 30 minutes for Q&A)</i> Panelists: Dr. Ashley VanderLey* , Senior Advisor for Facilities, Division for Astronomical Sciences, NSF Ms. Lynna McGrath , Director of Spectrum Policy and Planning, NASA Mr. Beau Backus* , Sr. Spectrum Manager, JHU APL—NOAA Contractor	
11:30 AM	Joint SSB-BPA Open Meeting Adjourns	

FALL MEETING OF THE BOARD ON PHYSICS AND ASTRONOMY

November 21-22, 2024

Hybrid Meeting

In Person at the NASEM Beckman Center, Irvine, CA

Online via Zoom and Livestream

All Times PT

THURSDAY, NOVEMBER 21, 2024

BPA OPEN SESSION

Livestream Link: <https://vimeo.com/event/4621906>

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1:15 PM	Opening Remarks	Dr. Jill Dahlburg , BPA Chair
1:20 PM	Update on Entanglement, Dark, and Normal Matter (25 minute presentation and 15 minutes for Q&A)	Dr. Marianna Safronova Professor, Department of Physics and Astronomy, University of Delaware Adjunct Fellow, Joint Quantum Institute (JQI)
2:00 PM	Thunderstorms Bubble and Burst with Ionizing Radiation (25 minute presentation and 15 minutes for Q&A)	Dr. Eric Grove Principal Investigator, iSTORM Head, High Energy Space Environment Branch Space Science Division, Naval Research Lab
2:40 PM	Committee on Atomic, Molecular, and Optical Sciences Update (15 minute presentation and 10 minutes for Q&A)	Dr. Mette Gaarde* Dr. Prem Kumar* CAMOS Co-Chairs
3:05 PM	Break (15 minutes)	
3:20 PM	Report Briefing: The Current Status and Future Direction of High-Magnetic-Field Science in the United States (25 minute presentation and 15 minutes for Q&A)	Dr. Peter Littlewood* Committee Chair
4:00 PM	Condensed Matter and Materials Research Committee Update (15 minute presentation and 10 minutes for Q&A)	Dr. Leslie Momoda CMMRC Chair
4:25 PM	Open Meeting Adjourns	

Fall Meeting of the Board on Physics and Astronomy November 21-22, 2024

FRIDAY, NOVEMBER 22, 2024

BPA OPEN SESSION

Livestream Link: <https://vimeo.com/event/4621909>

CLICK HERE TO JOIN

8:55 AM	Meeting Room Opens to Public	
9:00 AM	Opening Remarks	Dr. Jill Dahlburg, BPA Chair
9:05 AM	DOE Office of Science (SC) Update <i>(25 minute presentation and 15 minutes for Q&A)</i>	Dr. Linda Horton* Associate Deputy Director for Science Programs Office of Science, U.S. Department of Energy
9:45 AM	Update from the NSF Division of Materials Research <i>(25 minute presentation and 15 minutes for Q&A)</i>	Dr. Germano Iannacchione Director, Division of Materials Research National Science Foundation
10:25 AM	Break <i>(20 minutes)</i>	
10:45 AM	Air Force Office of Scientific Research (AFOSR) <i>(20 minute presentation and 10 minutes for Q&A)</i>	Dr. Irina Pala* Deputy Division Chief, Science and Engineering Air Force Office of Scientific Research
11:15 AM	Combat Capabilities Development Command (CCDC) <i>(20 minute presentation and 10 minutes for Q&A)</i>	Dr. Troy Alexander* Chief, Technology Forecasting Office CCDC, Army Research Laboratory
11:45 AM	An Overview of the Office of Naval Research (ONR) and the Naval S&T Strategy <i>(20 minute presentation and 10 minutes for Q&A)</i>	Dr. Thomas C. Fu* Executive Director Office of Naval Research
12:15 PM	Closing Remarks	Dr. Jill Dahlburg, BPA Chair
12:20 PM	BPA Open Meeting Adjourns	

IMPORTANT NOTES

- 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.