

191st MEETING OF THE
SPACE STUDIES BOARD

November 18, 2025

Hybrid Meeting

In Person at the NASEM Beckman Center, Irvine, CA

Online via Zoom and Livestream

All Times PT

TUESDAY, NOVEMBER 18, 2025
Day 1 Focus: Aerospace Technology

SSB OPEN SESSION

Livestream Link: <https://vimeo.com/event/5485034>

CLICK HERE TO WATCH

10:50 AM	Meeting Room Opens to Public	
11:05 AM	Opening Remarks	Dr. Margy Kivelson , SSB Chair
11:10 AM	Weighing the Future: Strategic Options for U.S. Space Nuclear Leadership: Report Briefing <i>(40-minute presentation and 15-minute discussion/Q&A)</i>	Dr. Bhavya Lal & Dr. Roger Myers Co-Authors
12:00 PM	Open Session Break <i>(60 minutes)</i>	
1:00 PM	Panel on Commercial Low Earth Orbit Destinations to Replace the ISS <i>(15-minute each and 30-minute discussion/Q&A)</i>	
	NASA Commercial Low-Earth Orbit Development Program: Angela Hart , Program Manager, or Christie Hansen , Acting Deputy Manager, NASA CLDP Axiom Station: Michael Lopez-Alegria , Chief Astronaut, Commander of the Ax-1 and Ax-3 missions, Axiom Space Blue Origin (Orbital Reef): Tara Ruttley , Chief Scientist, Blue Origin Nanoracks/Voyager Space (Starlab): Brad Henderson , CCO, StarLab Vast (Haven-1): Drew Feustel , Lead Astronaut, VAST	
2:45 PM	Concluding Remarks SSB Open Meeting Adjourns	

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

November 19-20, 2025

Hybrid Meeting

In Person at the NASEM Beckman Center, Irvine, CA

Online via Zoom and Livestream

All Times PT

WEDNESDAY, NOVEMBER 19, 2025

Day 2 Focus: *Public Private Partnerships/Philanthropy for S&T and AI for Science*

JOINT SSB-BPA OPEN SESSION

Livestream Link: <https://vimeo.com/event/5485036>

CLICK HERE TO WATCH

12:00 pM Meeting Room Opens to Public

12:45 PM **Panel on Public Private Partnerships for Science**
(15-minute each and 15-minute discussion/Q&A)

National Labs Perspective: Matt Garrett*, Director of the Innovation and Partnerships
Office, Lawrence Livermore National Laboratory

Philanthropy Perspective: Dusan A. Pejakovic*, Program Director, Gordon and Betty
Moore Foundation

Industry Perspective: Tahlee Baynard, Vice President, Ignite, Lockheed Martin Space
Current/Past Case Study: Brian Giera*, Director, Data Science Institute, LLNL

2:00 PM **Panel on Philanthropy and Science & Technology Priorities and Funding**
(15-minute each and 15-minute discussion/Q&A)

Gregory Gabadadze, Senior Vice President, Mathematics and Physical Sciences Division,
Simons Foundation

Amy Bernard, Vice President, Science, Kavli Foundation

Kate Lowry, Strategy Director, Science Philanthropy Alliance

Suhas Mahesh, AI Program Scientist, Schmidt Sciences

3:15 PM Break (15 minutes)

Joint Meeting of the Space Studies Board and the Board on Physics and Astronomy
November 19-20, 2025

3:30 PM

Panel on AI for Science

(15-minute each and 30-minute discussion/Q&A)

Setting the Stage: Rick L Stevens*, Associate Laboratory Director and Argonne Distinguished Fellow, Argonne National Laboratory

AI Technology Status: Anima Anandkumar, Bren Professor of Computing and Mathematical Sciences, Caltech

Space Science Applications: Kevin Murphy*, Chief Science Data Officer, NASA

Space Science Applications: Shirley Ho, Senior Research Scientist, Cosmology, Foundation Models for Science, CCA, Flatiron Institute

Physics Applications: Todd Martinez, David Mulvane Ehlers and Edward Curtis Franklin Professor of Chemistry, Professor of Photon Science, Stanford University

5:00 PM

Concluding Remarks

Joint Open Meeting Adjourns

FALL MEETING OF THE
BOARD ON PHYSICS AND ASTRONOMY

November 20, 2025

Hybrid Meeting

In Person at the NASEM Beckman Center, Irvine, CA

Online via Zoom and Livestream

All Times PT

THURSDAY, NOVEMBER 20, 2025

Day 3 Focus: *Physics/Physical Sciences*

BPA OPEN SESSION

Livestream Link: <https://vimeo.com/event/5485045>

CLICK HERE TO WATCH

10:40 AM Meeting Room Opens to Public

10:45 AM Opening Remarks

Dr. Jill Dahlburg, BPA Chair

10:50 AM High Energy Lasers - Opportunities and Challenges
for Fusion Energy and National Security
(30-minute presentation and 10-minute discussion/Q&A)

Dr. Mike Campbell
Co-Director, Fusion Engineering Institute
and Professor of Practice
University of California, San Diego

11:30 AM BPA Elementary Particle Physics Report Briefing
(30-minute presentation and 10-minute discussion/Q&A)

Dr. Michael Turner
Committee Co-Chair

12:10 PM Concluding Remarks
BPA Open Meeting Adjourns

IMPORTANT NOTES

Presenters:

- Please do not include non-public release information such as ITAR-controlled or any other 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.

Committee & 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.