

SPACE SCIENCE WEEK 2023

SPRING 2023 MEETING OF THE COMMITTEE ON ASTROBIOLOGY AND PLANETARY
SCIENCE

28-30 March 2023

NAS Building—2101 Constitution Ave NW—Washington D.C

Updated 22 March 2023

Tuesday March 28, 2023

All times are in Eastern Daylight Time (UTC-4:00 hours)

7:30 a.m. *Registration opens and breakfast is available in the Great Hall*

OPEN SESSION¹

9:00 a.m. Welcome **Martha Gilmore and Karyn Rogers**
CAPS Co-Chairs

9:05 a.m. NASA Planetary Science Division Program Update **Lori Glaze**
NASA Headquarters

10:05 a.m. Astrobiology Program Update **Mary Voytek (virtual)**
NASA Headquarters

10:50 a.m. *Break*

OPEN PLENARY SESSION²

11:00 a.m. Introductions **Margaret Kivelson**

11:05 a.m. **JWST Science Update**

Moderator: Colleen Hartman, SSB Director
Panelists: Tommaso Treu (*virtual*), University of California, Los Angeles
Steven Finkelstein (*virtual*), University of Texas, Austin;
and Thomas Greene, NASA Ames Research Center

¹ <https://vimeo.com/event/2973314>

² <https://vimeo.com/event/2973366>

12:05 p.m.	<i>Lunch available in the Great Hall</i>	
1:00 p.m.	Welcome	Margaret Kivelson SSB Chair
1:05 p.m.	Address by NASA Associate Administrator	Bob Cabana NASA Headquarters
1:25 p.m.	NASA Science Mission Directorate Overview	Nicky Fox NASA Headquarters
2:25 p.m.	National Science Foundation Science	Sean Jones NSF Headquarters
2:55 p.m.	National Oceanic and Atmospheric Administration Update	Michael Morgan NOAA Headquarters
3:25 p.m.	<i>Break</i>	
3:40 p.m.	European Space Agency Program Science Highlights	Carole Mundell and Gaitee Hussain ESA Headquarters
4:05 p.m.	Japanese Aerospace Exploration Agency Science Highlights	Masaki Fujimoto JAXA/ISAS Headquarters
4:30 p.m.	CAS, National Space Science Center Science Highlights	Wang Chi (virtual) Chinese Academy of Sciences
4:55 p.m.	South Korean Space Science Highlights	Young Deuk Park Korean Astronomy and Space Science Institute
5:20 p.m.	Indian Space Research Organization Science Highlights	Krunal Joshi Embassy of India
5:45 p.m.	<i>Break</i>	
6:00 p.m.	Panel Discussion: How Science is Managed within the Artemis Program Moderator: Colleen Hartman, SSB Director Panelists: Jack Burns, University of Colorado; Brett Denevi, Applied Physics Laboratory Jim Free, NASA-ESDMD; and Joel Kearns, NASA-SMD	
7:00 p.m.	Plenary Session Adjourns	
7:00 p.m.	<i>Dinner for committee members and invited guests in the Great Hall.</i>	

Wednesday March 29, 2023

COMMITTEE ON ASTROBIOLOGY AND PLANETARY SCIENCE—Lecture Room

All times are in Eastern Daylight Time (UTC-4:00 hours)

7:30 a.m. *Registration opens and breakfast is available in the Great Hall*

OPEN SESSION³

9:00 a.m. VERITAS Status Report
Suzanne Smrekar
Jet Propulsion Laboratory

10:00 a.m. *Break*

Joint Session with the Committee on Biological and Physical Science in Space

10:15 a.m. Lunar Exploration and Discovery Program Update
Joel Kearns
NASA Headquarters

10:45 a.m. NASA's New Lunar Science Strategy Report
Sarah Noble
NASA Headquarters

11:15 a.m. NASA Lunar Biological and Physical Research Activities
Kevin Sato (virtual)
NASA Headquarters

11:45 a.m. Q&A and Discussion of Lunar Presentations
Committee and Guests

12:15 p.m. *Lunch available in the Great Hall*

Joint Session with the Committee on Planetary Protection

1:15 p.m. NASA Mars Exploration Program:
Plan for a Sustainable Future for Science at Mars
Eric Ianson
NASA Headquarters

2:00 p.m. Mars Sample Return Receiving Facility
Assessment Study
Andrea Harrington
NASA Johnson Space Center

2:45 p.m. Q&A/General Discussion of Mars Presentations
Committee and Guests

3:15 p.m. *Break*

3:45 p.m. SMD's IDEA Activities
Eric B. Holmes
Juana E. Sosa

³ <https://vimeo.com/event/2973318>

Kim Barnette
NASA Headquarters

CLOSED SESSION

4:45 p.m. General Discussion **Committee**

OPEN PLENARY SESSION⁴

7:00 p.m. An Infinity of Worlds:
Cosmic Inflation and the Beginning of the Universe **William Kinney**
University of Buffalo

Thursday March 30, 2023

COMMITTEE ON ASTROBIOLOGY AND PLANETARY SCIENCE—Lecture Room

All times are in Eastern Daylight Time (UTC-4:00 hours)

7:30 a.m. *Registration opens and breakfast is available in the Great Hall*

OPEN SESSION⁵

9:00 a.m. The Decadal Survey's Uranus Orbiter and Probe
Mission Concept **Amy Simon**
NASA Goddard Space Flight Center

10:00 a.m. *Break*

10:15 a.m. Psyche Status Report **Linda Elkins-Tanton (virtual)**
Arizona State University

CLOSED SESSION

11:15 a.m. General Discussion **Committee**

12:30 p.m. Meeting Adjourns (*lunch available TBD*)

IMPORTANT NOTES

⁴ <https://vimeo.com/event/2973372>

⁵ <https://vimeo.com/event/2973321>

Pre-registration: All participants, including committee members, invited speakers and other attendees, are strongly encouraged to preregister at <https://cvent.me/g19re9>.

Registration will be located in the Great Hall during the event. Please check-in there to receive your badge.

NAS Building: Is located at 2101 Constitution Ave. NW, between the State Department and the Vietnam Veterans Memorial. Visitors must show a valid government ID (or a digital photo of the card) to the security staff at the NAS Building. Additional information about the NAS Building is available at <http://www.nationalacademies.org/about/contact/nax.html>.

COVID Policies: The National Academies has relaxed all previous COVID-19 restrictions. Proof of vaccination is no longer required to enter our facilities. Visitors may choose to wear a mask or respirator but are not required to do so. Please see the most recent information available at <https://www.nationalacademies.org/about/operating-status>.

Wi-Fi Connection: To connect to the Wi-Fi chose “Visitor Network” then open a browser and click “Accept terms and conditions.” You will then be connected to the internet.

Metro: The closest Metro station (0.5 miles) is Foggy Bottom (Blue, Orange, and Silver lines; exit and turn right, then turn left onto C Street once you have passed the State Department.

Parking: Very limited public parking is available onsite at the NAS. The 22 available parking spaces are available first come first served and fill rapidly. Note: construction on 21st St. may impact access to the garage at the NAS Building via Constitution Avenue. If so, the garage can be accessed from 21st via C Street and the arm may be raised to temporarily allow access from 22nd St NW.

SSW Website: <https://www.nationalacademies.org/event/03-27-2023/space-science-week-2023>

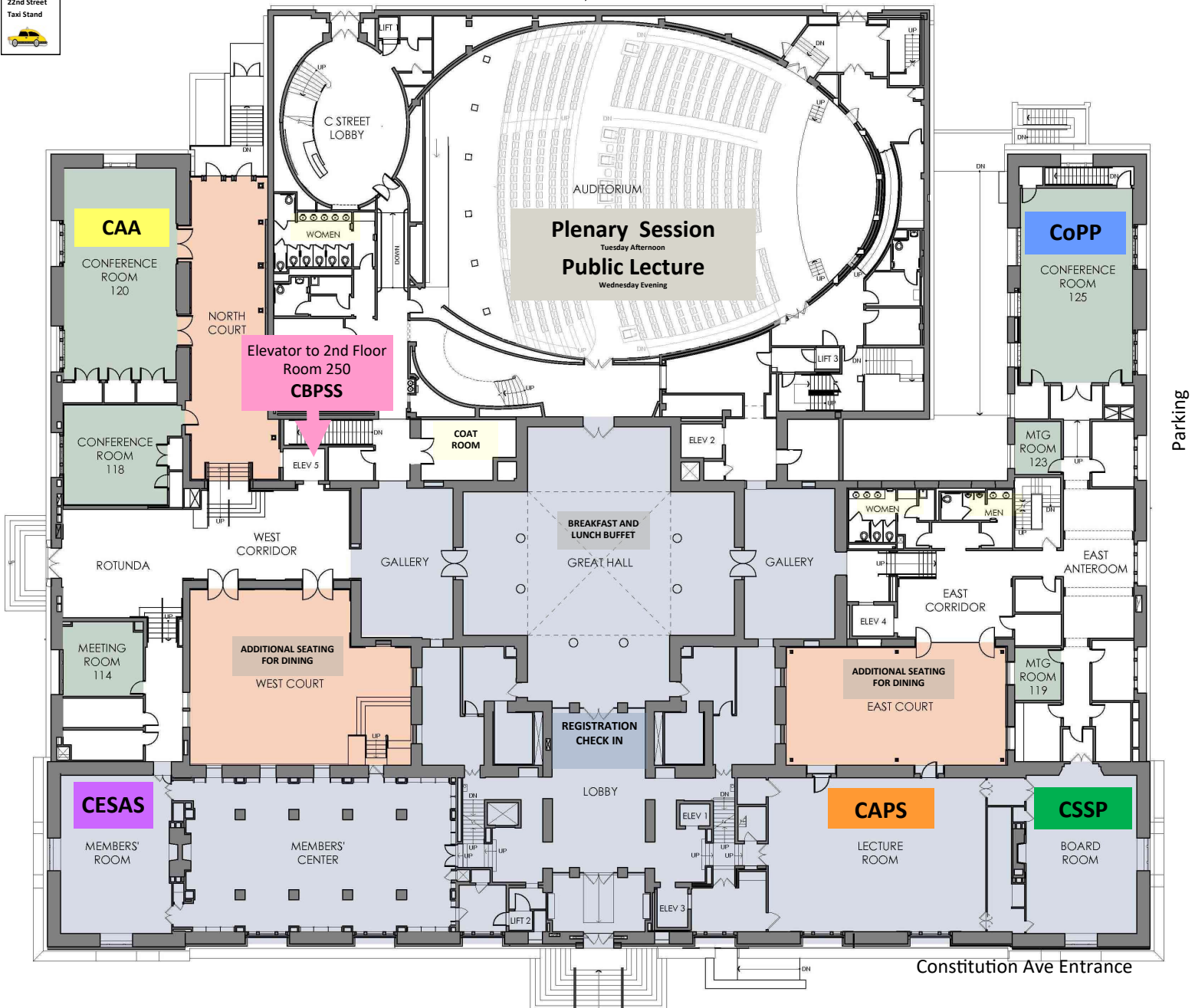
Notes for All Attendees: This meeting is being held to gather information to help the committee in its charge. This committee will examine the information and material obtained during this, and other public meetings, to inform its work. Although opinions may be stated and lively discussion may ensue, no conclusions are being drawn nor will recommendations be made. Observers who draw conclusions about the committee’s work based on this meeting’s discussions will be doing so prematurely. Furthermore, individual committee members often engage in discussion and questioning for the specific purpose of probing an issue and sharpening an argument. The comments of any given committee member may not necessarily reflect the position he or she may actually hold on the subject under discussion, to say nothing of that person’s future position as it may evolve in the course of the project. Any inference about an individual’s position are therefore also premature.

Recording and Webcasting of the Meeting: This meeting will be recorded and webcast to remote participants by the National Academies. Please be aware that by attending the meeting, you consent to your voice and image being recorded for use by the National Academies for the purpose of notetaking. This recording will not be publicly released, shared outside of the National Academies, or used for other public purposes.

Notes for Presenters: If your presentation contains unpublished data, ITAR controlled and/or other sensitive information, please be aware that the open sessions at the meeting may be recorded and/or

webcast. Presentation materials given to the committee may be posted on a publicly accessible website. Please edit your presentations accordingly. Mac users should assume that their presentation will be displayed via one of the NRC's PCs. If your presentation is graphics heavy and best displayed via your own laptop, you should also bring a plain-vanilla pdf version of your presentation with you. The audience in the meeting room will see your presentation via your laptop and we will webcast the pdf file. At some point a staff member will be asking you to sign a consent form allowing us to use your presentation, specifically to post it on our website.

C Street Entrance



March 28-30, 2023

CAA	Room 120
CAPS	Lecture Room
CBPSS	Room 250
CESAS	Member's Room
CoPP	Room 125
CSSP	Board Room