

SPACE SCIENCE WEEK 2023

Spring 2023 Meeting of the Committee on Planetary Protection

March 28-30, 2023

In Person and Virtual Meeting

National Academy of Sciences Building
2101 Constitution Avenue, Washington, DC

DRAFT

TUESDAY, MARCH 28, 2023

PLENARY SESSION

Introductions and JWST Science Update

Public Livestream link: <https://vimeo.com/event/2973366>

11:00 AM Introductions

*Dr. Margy Kivelson
SSB Chair*

11:05 AM Panel: JWST Science Update
(15-minute presentation each and 15-minute discussion)

Moderator: *Dr. Colleen Hartman, SSB Director*

Panelists: *Dr. Tommaso Treu, University of California, Los Angeles via Zoom
Dr. Steven Finkelstein, The University of Texas at Austin via Zoom
Dr. Thomas Greene, NASA Ames Research Center*

12:00 PM Lunch in the Great Hall
(60-minute break; additional seating in the East and West Courts)

Plenary Sessions—Auditorium

NASA, NSF, and NOAA Science Program Update

Public Livestream link: <https://vimeo.com/event/2973366>

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| 1:00 PM | Welcome | Dr. Margy Kivelson <i>SSB Chair</i> |
| 1:05 PM | Address by NASA Associate Administrator (20-minute address) | Mr. Bob Cabana <i>NASA Associate Administrator</i> |
| 1:25 PM | NASA Science Mission Directorate (SMD) Overview (30-minute presentation and 30-minute discussion) | Dr. Nicky Fox <i>Assoc. Administrator, NASA-SMD</i> |
| 2:25 PM | National Science Foundation (NSF) Science Program Update (20-minute presentation and 10-minute discussion) | Dr. Sean Jones, Director, Directorate for Mathematical and Physical Sciences, NSF |
| 2:55 PM | National Oceanic and Atmospheric Administration (NOAA) Update (20-minute presentation and 10-minute discussion) | Dr. Michael Morgan, <i>Asst. Secretary of Commerce for Environmental Observation and Prediction, Dept. of Commerce</i> |
| 3:25 PM | Break (15-minute break) | |

International Partners' Presentations

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| 3:40 PM | European Space Agency (ESA) Program Science Highlights (15-minute presentation and 10-minute discussion) | Dr. Carole Mundell, Director of Science, ESA Dr. Gaitee Hussain, Head of Science Division, ESA |
| 4:05 PM | Japanese Aerospace Exploration Agency (JAXA) Science Highlights (15-minute presentation and 10-minute discussion) | Dr. Masaki Fujimoto <i>Deputy Director General, JAXA</i> |
| 4:30 PM | Chinese National Space Science Center (NSSC) Science Highlights (15-minute presentation and 10-minute discussion) | Dr. Chi Wang, Director-General, NSSC <i>Chinese Academy of Sciences</i> |
| 4:55 PM | South Korean Science Highlights (15-minute presentation and 10-minute discussion) | Dr. Young Deuk Park, President, <i>Korean Astronomy and Space Science Institute</i> |
| 5:20 PM | Indian Space Research Organization Science Highlights (15-minute presentation and 10-minute discussion) | Mr. Krunal Joshi, Counsellor, Space, <i>Embassy of India</i> |
| 5:45 PM | Break (15-minute break) | |

Special Session on NASA's Artemis Program

6:00 PM Panel: How Science is Managed within the Artemis Program

(5-minute presentation each and 40-minute discussion)

Moderator: *Dr. Colleen Hartman, SSB Director*

Panelists: *Dr. Jack Burns, U. Colorado*

Dr. Brett Denevi, JHU-APL

Mr. Jim Free, NASA-ESDMD

Dr. Joel Kearns, NASA-SMD

7:00 PM *Plenary Session Adjourns for the Day*

WEDNESDAY, MARCH 29, 2023

OPEN SESSION

Public Livestream link: <https://vimeo.com/event/2973275>

Updates from NASA and COSPAR Planetary Protection

8:00 AM *Committee Room Opens for Committee Members; Breakfast Served for Members and Staff*

9:00 AM **Welcome and Introductions**

*Dr. Len Fisk, CoPP Co-Chair /
Dr. Amanda Hendrix, CoPP Co-Chair*

9:05 AM **Discussion of Current State and Concerns of NASA
Planetary Protection Office***

(25-minute presentation & 50-minute discussion period)

*Dr. J. Nick Benardini, Planetary
Protection Officer, NASA-HQ*

10:20 AM *Break*

10:40 AM **Discussion with COSPAR Panel on Planetary Protection***

(35-minute presentation & 40-minute discussion period)

*Dr. Athena Coustenis,
Chair, COSPAR PPP /
Dr. Niklas Hedman, Vice-Chair, COSPAR PPP /
Dr. Peter Doran, Vice-Chair, COSPAR PPP*

11:55 AM *Lunch Break*

Joint Open Session with the Committee on Astrobiology and Planetary Sciences

Public Livestream link: <https://vimeo.com/event/2973318>

1:15 PM **Mars Exploration Strategy and Planetary Protection**

(45-minute presentation)

*Dr. Eric Ianson, Acting Deputy
Assoc. Administrator, NASA-SMD*

2:00 PM **Mars Sample Return Facility – Science and Planetary Protection
Planetary Protection Requirements** *Dr. Andrea Harrington, Mars Sample
Curation Lead, NASA-JSC*
(45-minute presentation)

2:45 PM **Joint General Discussions of Mars Presentations**
(30-minute discussion period)

3:15 PM Joint Session Adjourns

NASA Investments in Planetary Protection

3:45 PM **Current Activities of the Planetary Protection Research Program*** *Dr. Becky McCauley Rench, Program
Scientist, Planetary Science Division,
NASA-SMD*
(25-minute presentation & 20-minute discussion period)

4:30 PM Meeting Adjourns to Closed Session

Keynote Space Science Week Public Lecture

Public Livestream Link: <https://vimeo.com/event/2973372>

7:00 PM **An Infinity of Worlds: Cosmic Inflation
and the Beginning of the Universe** *Dr. William Kinney
Professor, Dept. of Physics
University of Buffalo*

THURSDAY, MARCH 30, 2023

OPEN SESSION

Public Livestream link: <https://vimeo.com/event/2973280>

Special Session on Metagenomics

8:00 AM Committee Room Opens for Committee Members; Breakfast Served for Members and Staff

9:00 AM **Welcome and Recap of Day 1, Setting Discussion for Day 2** *Len Fisk and Amanda Hendrix, CoPP Co-Chairs*

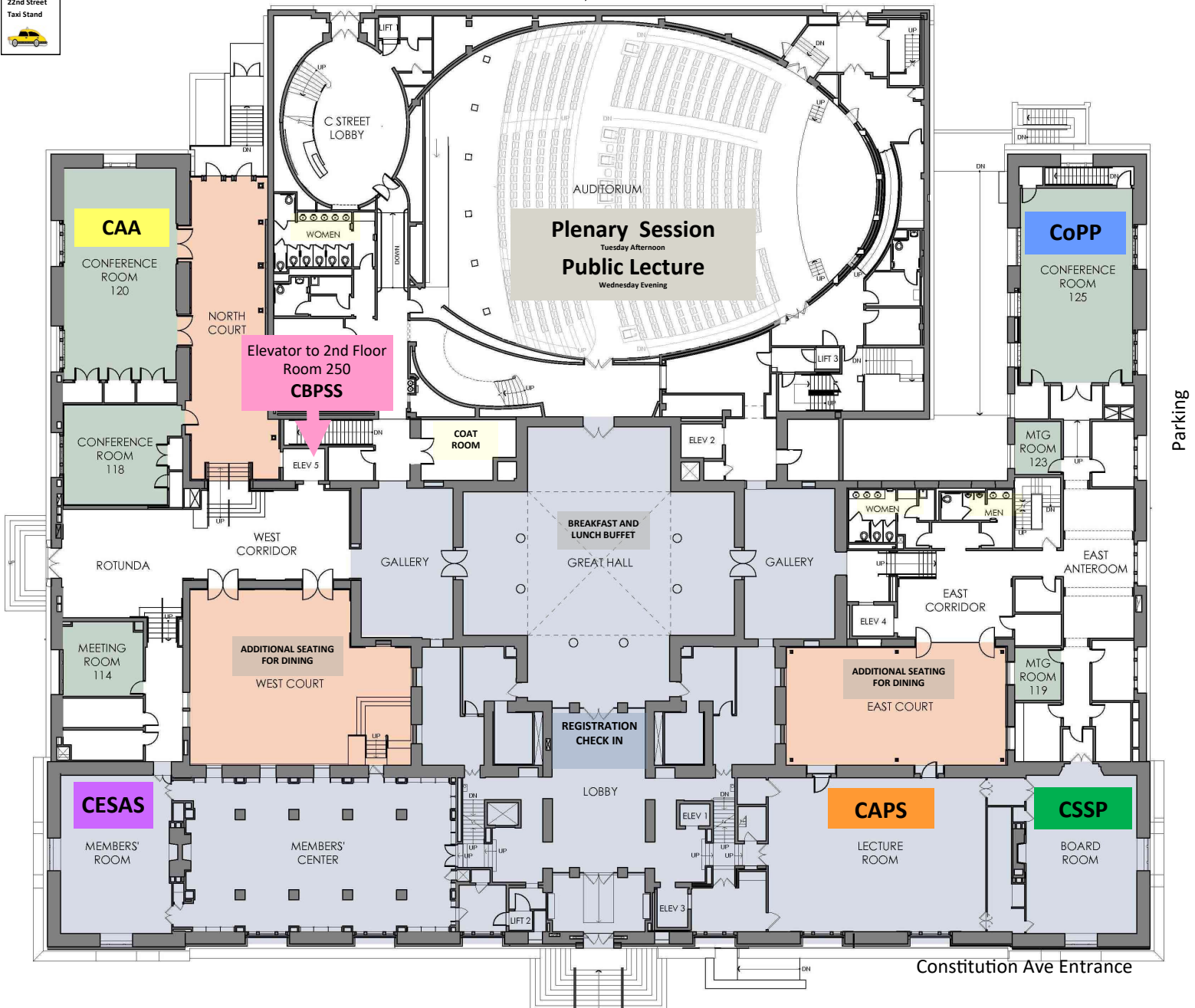
9:05 AM **Metagenomics: Background and Principles*** *Dr. Margaret Thairu, Postdoctoral
Researcher, Wisconsin Institute for Discovery*
(25-minute presentation & 10-minute discussion period)

9:40 AM **Future Metagenomic Applications for Space Missions*** *Dr. Lyle Whyte, Professor, Polar
Microbiology, McGill University*
(25-minute presentation & 10-minute discussion period)

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|-----------------|---|---|
| 10:15 AM | Uses and Limitations of Metagenomics in Polar Regions* (25-minute presentation & 10-minute discussion period) | <i>Dr. Brent Christner, Assoc. Professor, Microbiology and Cell Science, U. of Florida</i> |
| 10:50 AM | <i>Break</i> | |
| 11:10 AM | Roundtable Discussion on Metagenomics (50-minute discussion) Participants: <i>Dr. Brent Christner, Assoc. Professor, Microbiology and Cell Science, U. of Florida</i> <i>Dr. Margaret Thairu, Postdoctoral Researcher, Wisconsin Institute for Discovery</i> <i>Dr. Lyle Whyte, Professor, Polar Microbiology, McGill University</i> | |
| 12:00 PM | <i>Lunch Break; Committee Adjourns to Closed Session</i> | |

In-person attendees please note: To support preventing the infection and spread of the COVID-19 virus, and as an integral measure towards the safety and health of everyone in our buildings, the National Academies requires all visitors to our facilities to be up-to-date on vaccinations against COVID-19 per CDC guidance. Each person must show their official vaccination card or a digital photo of the card before they will be allowed to enter the building. Those with up-to-date vaccinations may choose to wear a mask in our facilities.

C Street Entrance



March 28-30, 2023

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