

SPACE SCIENCE WEEK 2023

Spring 2023 Meeting of the Discipline Committees of the Space Studies Board

March 28-30, 2023

Hybrid Meeting

National Academy of Sciences Building – Kavli Auditorium
2101 Constitution Avenue, Washington, DC

PLENARY Session Agenda, March 28th

KEYNOTE Public Lecture, March 29th

TUESDAY, MARCH 28, 2023

Space Science Week 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

12:05 PM **Lunch in the Great Hall**
(60-minute break; additional seating in the East and West Courts)

NASA, NSF, and NOAA Science Update

1:00 PM **Welcome to the Agency Updates** **Dr. Margy Kivelson**
SSB Chair

1:05 PM **Address by NASA Associate Administrator** **Mr. Bob Cabana**
(20-minute address) NASA Associate Administrator

1:25 PM **NASA Science Mission Directorate (SMD) Overview** **Dr. Nicky Fox**
(30-minute presentation and 30-minute discussion) SMD Associate Administrator, NASA

ALL TIMES IN US EASTERN DAYLIGHT TIME (UTC-4:00)

2:25 PM	National Science Foundation (NSF) Science Program Update (20-minute presentation and 10-minute discussion)	<i>Dr. Sean Jones, Director, Directorate for Mathematical and Physical Sciences, NSF</i>
2:55 PM	National Oceanic and Atmospheric Administration (NOAA) Update (20-minute presentation and 10-minute discussion)	<i>Dr. Michael Morgan Asst. Secretary of Commerce for Environmental Observation and Prediction, Dept. of Commerce</i>
3:25 PM	Break (30-minute break)	

International Partners' Presentations

3:50 PM	Introduction of International Partners	<i>Dr. Margy Kivelson, SSB Chair</i>
3:55 PM	European Space Agency (ESA) Program Science Highlights (15-minute presentation and 10-minute discussion)	<i>Dr. Carole Mundell, Director of Science, ESA Dr. Gaithee Hussain, Head of Science Division, ESA</i>
4:20 PM	Japanese Aerospace Exploration Agency (JAXA) Science Highlights (15-minute presentation and 10-minute discussion)	<i>Dr. Masaki Fujimoto Deputy Director General, JAXA</i>
4:45 PM	South Korean Science Highlights (15-minute presentation and 10-minute discussion)	<i>Dr. Young Deuk Park, President Korean Astronomy and Space Science Institute</i>
5:10 PM	Indian Space Research Organization Science Highlights (15-minute presentation and 10-minute discussion)	<i>Mr. Krunal Joshi, Counsellor, Space Embassy of India</i>
5:35 PM	Break (25-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) <i>Moderator: Dr. Colleen Hartman, SSB Director</i> <i>Panelists: Mr. Jim Free, NASA-ESDMD Dr. Joel Kearns, NASA-SMD Dr. Brett Denevi, JHU-APL Dr. Jack Burns, U. Colorado</i>
7:05 PM	Plenary Session Adjourns for the Day

WEDNESDAY, MARCH 29, 2023

**KEYNOTE SPACE SCIENCE WEEK EVENING PUBLIC LECTURE
HYBRID MEETING – IN PERSON OR ON LIVESTREAM (LINK BELOW)
NATIONAL ACADEMY OF SCIENCES BUILDING KAVLI AUDITORIUM
2101 CONSTITUTION AVENUE, WASHINGTON, DC**

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**

Abstract:

In the beginning was the Big Bang: an unimaginably hot fire almost fourteen billion years ago in which the first elements were forged. The physical theory of the hot nascent universe -- the Big Bang -- was one of the most consequential developments in twentieth-century science. And yet it leaves many questions unanswered: Why is the universe so big? Why is it so old? What is the origin of structure in the cosmos? Physicist Will Kinney explains a more recent theory that may hold the answers to these questions and sheds light on the ultimate origins of the universe: cosmic inflation.

Speaker Biography:

Will Kinney is a professor in the Department of Physics at the University at Buffalo, SUNY, where he has been on faculty since 2003. Dr. Kinney received his Bachelor of Arts from Princeton University and Ph.D. from the University of Colorado, Boulder. He has worked as a research associate at Fermi National Accelerator Laboratory, the University of Florida, and Columbia University, and held visiting positions at Yale University, Perimeter Institute for Theoretical Physics, Harish Chandra Research Institute, Allahabad, the University of Chicago, the University of Valencia, Indian Institute of Technology Madras, and Stockholm University. Dr. Kinney's research focuses on the physics of the very early universe, including inflationary cosmology, the Cosmic Microwave Background, Dark Matter, and Dark Energy. He has authored more than seventy published research articles and received the SUNY Chancellor's award for excellence in teaching in 2014.