SPACE SCIENCE WEEK

The National Academies of SCIENCES ENGINEERING MEDICINE

SPACE STUDIES BOARD

Spring 2021 Meeting of the Discipline Committees of the Space Studies Board
March 23, 2021
Virtual Meeting
Plenary Session
ALL TIMES IN US EASTERN DAYLIGHT TIME (UTC-4:00)

AGENDA

This agenda is a draft, subject to change, and was last updated on 3/17/2021 9:48 AM

TUESDAY, MARCH 23, 2021

Space Science Week Plenary Session

OPEN SESSION

Meeting Open to the Public
Livestreaming Link: https://livestream.com/accounts/7036396/events/9569460

Opening Session: Introductions and NASA Science Program Update

11:00 AM	**Welcome**	***Dr. Margy Kivelson, SSB Chair***
11:05 AM	**NASA Science Mission Directorate Introduction** (40 minute presentation)	***Dr. Thomas Zurbuchen, Assoc. Administrator, SMD, NASA***
11:45 AM	**Panel 1: NASA Science Mission Directorate Division Directors** (7 minute presentation each and 25 minute discussion)	
	Moderator:	***Dr. Margy Kivelson, SSB Chair***
	Panelists:	***Dr. Karen St. Germain, Director, Earth Science Division, SMD, NASA***
		Dr. Nicola Fox, Director, Heliophysics Division, SMD, NASA
		Dr. Lori Glaze, Director, Planetary Science Division, SMD, NASA
		Dr. Paul Hertz, Director, Astrophysics Division, SMD, NASA
		Dr. Craig Kundrot, Director, Biological and Physical Sciences Division, SMD, NASA
12:45 PM	*Break* (30 minute break)	

1:15 PM	**Address from NASA Acting Administrator**	***Dr. Steve Jurczyk, Acting Administrator, NASA***
1:45 PM	**The Perils of Complacency: America at a Tipping Point in Science and Engineering** (40 minute presentation followed by a 20 minute discussion)	***Mr. Norm Augustine, Chairman and CEO (ret.), Lockheed Martin Corporation / Dr. Neal Lane, Professor Emeritus, Baker Institute for Public Policy, Rice University***
2:45 PM	*Break* (20 minute break)	

Space Science from an International Perspective: Achievements during the Year of Pandemic

3:05 PM	**ESA Science Highlights** (10 minute presentation)	***Dr. Günther Hasinger, Director of Science, ESA***
3:15 PM	**ESA Science Program Strategy** (10 minute presentation)	***Dr. Fabio Favata, Head, Strategy, Planning, and Coordination Office; Directorate of Science ESA***
3:25 PM	**ESA Earth Observation Perspective** (10 minute presentation)	***Dr. Maurice Borgeaud, Head, Earth Observation Department, ESA***
3:35 PM	**ESA Exploration Science** (10 minute presentation)	***Dr. David Parker, Director, Human and Robotic Exploration, ESA***
3:45 PM	*Break* (10 minute break)	
3:55 PM	**Russian Space Research Institute Perspective** (10 minute presentation)	***Dr. Lev Zelenyi, Scientific Advisor, Russian Space Research Institute (IKI)***
4:05 PM	**Chinese National Space Science Center (NSSC) Perspective** (10 minute presentation)	***Dr. Chi Wang, Director-General, NSSC, Chinese Academy of Sciences***
4:15 PM	**Japanese Aerospace Exploration Agency (JAXA) Perspective** (10 minute presentation)	***Dr. Masaki Fujimoto, Deputy Director General, JAXA***
4:25 PM	**Round-Table Discussion with International Space Science and Exploration Leaders** (35-minute discussion)	
5:00 PM	*Plenary Session Adjourns*	

Public Session

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5:30 PM **Keynote Space Science Week Public Lecture**
"Climate Change as seen from Space"
Dr. Gavin Schmidt
Acting Senior Climate Advisor, NASA-HQ / Director, Goddard Institute of Space Studies, NASA

Public Lecture Abstract
We have been observing the climate system from space since the 1960s, and more comprehensively since 1979. Over that time trends in many variables such as temperature, sea ice, gravity, ozone, clouds, and sea level, have been detected and through the use of sophisticated climate models, attributed fully or partially to anthropogenic influences on the climate system. More recently, we have successfully started to attribute the frequency and intensity of some classes of extreme events (such as heat waves, drought, coastal flooding and intense precipitation) to those same anthropogenic drivers. I will discuss the unique perspective on climate through all manner of space-borne observations and the emerging science of extreme event attribution, and what the next decade might hold.

Speaker Bio
Gavin Schmidt is the acting Senior Advisor on Climate at NASA and Director of the Goddard Institute for Space Studies. His research covers climate changes in past, present and future climate mostly using the GISS Earth System Model. He was the author with Josh Wolfe of "Climate Change: Picturing the Science" in 2009 and, in 2011, was the inaugural recipient of the AGU Climate Communication Prize. His 2014 TED talk has been seen more than a million times. He is a fellow of the AGU and AAAS.