# The National Academies of
## SCIENCES · ENGINEERING · MEDICINE

DIVISION ON ENGINEERING AND PHYSICAL SCIENCES
SPACE STUDIES BOARD

**COMMITTEE ON EARTH SCIENCE AND APPLICATIONS FROM SPACE**
**October 4–5, 2016**
**Keck Center – 500 Fifth Street NW – Washington D.C.**
**Room 201**

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| **Tuesday October 4, 2016** | |

**8:00 AM**        Meeting Room Opens *(Breakfast available in the room)*

**9:00 AM**                             **EXECUTIVE SESSION**

                                    **OPEN SESSION**

**9:15 AM**        **NOAA NESDIS: Program Update**
                     **Steve Volz, NOAA Assistant Administrator for Satellite and Information Services**

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| **Earth Science Data Symposium** | |

**10:00 AM**        **Discussion with Pierre-Philippe Mathieu and Yves-Louis Desnos, ESA (video conference)**

**10:30 AM**        *Break*

**10:45 AM**        **Discussions with Kevin Murphy, NASA Program Executive for Earth Science Data Systems and Tsengdar Lee, High-end Computing Program Manager, NASA HQ**

**12:15 PM**        *Lunch will be served in the meeting room; discussion will continue*

**1:00 PM**        **Discussion with Ed Kearns, NOAA**

**1:40 PM**        **Continuing Challenges in the Exploration and Stewardship of Data**
                                    **Sara Graves, University of Alabama, Huntsville**

**2:15 PM**        **Thoughts on The NOAA Big Data CRADA**                             **Steven Adler, IBM**

**2:45 PM**        *Break*

**3:00 PM**        **People Powered Earth Observation: Even Big Data Starts Small**
                          **Lea Shanley, NSF South Big Data Innovation Hub (via WebEx) and**
                                    **Dixon Butler, Independent Consultant; Director (1989-1996),**
                          **NASA's Earth Science Modeling, Data and Information Systems Division**

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| **3:30 PM** | **The Third Pole and the Fourth Paradigm** | **Jeff Dozier, University of California, Santa Barbara** |
| **4:00 PM** | **Roundtable Discussions – Committee and Guests** | |
| **5:30 PM** | *Break* | |
| **6:30 PM** | *Working dinner* | Rasika<br>633 D St NW, Washington, DC 20004<br>(202) 637-1222 |
| **8:30 PM** | *Adjourn for the day* | |

## Wednesday October 5, 2016

### CLOSED SESSION

**8:00 AM**   Meeting Room Opens *(Breakfast available in the room)*

### OPEN SESSION

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| **10:00 AM** | **Program Update from NASA ESD** | **Michael Freilich, NASA<br>Director of the Earth Science Division** |
| **11:00 AM** | *Break* | |
| **11:15 AM** | **Program Update from USGS** | **TBD** |
| **12:00 PM** | *Lunch will be served in the meeting room; discussion will continue* | |
| **1:00 PM** | ***Extending Science—NASA's Space Science Mission Extensions and the Senior Review Process*** | **Michael King, CESAS Co-Chair** |
| **1:30 PM** | **EXECUTIVE SESSION** | |
| **2:30 PM** | *Meeting Adjourns* | |

| REMOTE CONNECTION DETAILS |
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**WebEx & Telecon Instructions:**

<u>**TUESDAY, OCTOBER 4**</u>

**OPEN SESSION 9:15 AM to 5:30 PM**
1. Go to
   https://nationalacademies.webex.com/nationalacademies/j.php?MTID=m7fd5318d893022d66619406f8e729c7e for a direct connection to the Webex meeting.
2. Enter your phone number to have WebEx call you.

Meeting Name: CESAS Day 1 - Open
Meeting Number: 743 390 561
Meeting Password: fJ3iMhEv (case sensitive)
Add this meeting to your calendar

<u>**WEDNESDAY, OCTOBER 5**</u>

**OPEN SESSION 10:00 AM to 1:30 PM**
1. Go to
   https://nationalacademies.webex.com/nationalacademies/j.php?MTID=me96c6475b36bf6d1ed025244c6ebebfe  for a direct connection to the Webex meeting.
2. Enter your phone number to have WebEx call you.

Meeting Name: CESAS Day 2 - Open
Meeting Number: 740 557 537
Meeting Password: VYmPXEyg
Add this meeting to your calendar

If you are <u>not connecting </u>via WebEx but connecting by phone:
1. Call-in toll-free number: 1-866-668-0721  (within the US only)
2. Telecon Conference Code: 283 524 5045 (this is for the telecon audio connection only)

If you require a toll free number to call in from outside the United States, please contact  Andrea Rebholz (ARebholz@nas.edu).

# NOTES

**Note to Observers:**  This meeting is being held to gather information to help the committee conduct its activities.  The committee will examine the information and material obtained during open sessions in an effort to inform its work.  Although opinions may be stated and lively discussion may ensue, no conclusions are being drawn at this time.  Therefore, observers who draw conclusions about the committee's work based on discussions during this meeting 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 committee's activities.

**Note to Presenters:**  If your presentation contains unpublished data, ITAR controlled and/or other sensitive information, please be aware that the open sessions at the meeting will be webcast and presentation materials given to the committee may be posted on a publicly accessible website.  Please edit your presentations accordingly.

**Hotel:**  Hyatt Regency Capitol Hill, 400 New Jersey Ave NW, Washington, DC 20001
Phone: (202) 737-1234

**Working Dinner:**  Rasika, 633 D St NW, Washington, DC 20004, (202) 637-1222
All meeting participants can attend.  The Academies will only pay for members of the committee and guest speakers.  Unfortunately, the Academies cannot pay for civil servants.  The cost of the dinner is $50.00.  Checks, payable to the National Academy of Sciences, are preferred.

**Keck Center**:  Is located at 500 Fifth St. NW, in Washington's Penn Quarter district, adjacent to Judiciary Square and the Verizon Center.  The closest Metro stations (Information about the D.C. Metro can be found at http://www.wmata.com/) are Gallery Place/Chinatown (Red, Green and Yellow lines; take "7th and F St." exit and turn left) and Judiciary Square (Red line; take National Building Museum exit and turn left).  Directions available at the following website: http://www.nationalacademies.org/about/contact/nax.html.

**Parking**:  There is plenty of free parking for meeting participants in the Keck Center's underground lot.  Access is at the F St. end of Sixth St.

**Save the Date! Meetings in 2017**:  The committee will hold its next meeting on Tuesday-Thursday, March 28-30, 2017 at the National Academy of Sciences, 2101 Constitution Ave. NW, Washington, D.C. 20418.  The date of the autumn 2017 meeting is TBD.