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**Ad Hoc Big Data Task Force
of the
NASA Advisory Council Science Committee**

November 1-3, 2017

**Jet Propulsion Laboratory (JPL), Theodore von Kármán Auditorium,
4800 Oak Grove Drive, Pasadena, CA 91011**

**Agenda
(Pacific Daylight Time)**

Wednesday, November 1st

| | | |
|---------------|--|--|
| 8:30 – 9:00 | Opening Remarks/Introduction | Dr. Charles Holmes Mr. Gerald Smith |
| 9:00 – 9:30 | Member Reports | Membership |
| | <i>JPL OVERVIEW</i> | |
| 09:30 – 09:50 | JPL Data Science Programs | Mr. Dan Crichton, Dr. Richard Doyle |
| 09:50 – 10:10 | Caltech Center for Data-Driven Discovery | Prof. George Djorgovski, Caltech |
| 10:10 – 10:30 | <i>BREAK</i> | |
| | <i>MACHINE LEARNING/DATA SCIENCE METHODS AND APPLICATIONS</i> | |
| 10:30 – 10:50 | Machine Learning Applications in Earth Science | Dr. Lukas Mandrake |
| 10:50 – 11:10 | Machine Learning Applications in Astronomy | Dr. Umaa Rebbapragada |
| 11:10 – 11:30 | Machine Learning Applications in Planetary Science | Dr. Kiri Wagstaff |
| 11:30 – 11:50 | Machine Learning Wrap Up; Q&A | |
| 11:50 – 12:00 | Public Comment | |
| 12:00 – 13:00 | <i>Lunch</i> | |
| 13:00 – 14:30 | Non-FACA JPL Tour | Mr. Dan Crichton |
| | <i>BIG DATA ANALYTICS AND VISUALIZATION</i> | |
| 14:30 – 14:50 | Big Data Analytics for Sea Level Rise | Mr. Thomas Huang |
| 14:50 – 15:10 | Big Data Visualization for Planetary Science | Ms. Emily Law |
| 15:10 – 15:30 | Big Data Analytics for Hydrology | Mr. Shan Maholtra Dr. Jay Famiglietti |
| 15:30 – 16:00 | Big Data Analytics Wrap Up; Q&A | Mr. Shan Maholtra |
| 16:00 – 17:00 | First discussion of study reports – summarize updates since the June tele-meeting. | Membership |
| 17:00 | <i>ADJOURN FOR DAY 1</i> | |



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Thursday, November 2nd

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|---------------|--|--|
| 8:30 – 9:00 | Assemble/Day 1 Carryover Items | Dr. Charles Holmes Mr. Gerald Smith |
| 9:00 – 9:30 | Assessment of Data Archives | Dr. Neal Hurlburt |
| 9:30 – 10:15 | Frontier Development Labs | Dr. Madhulika Guhathakurta |
| 10:15 – 10:30 | BREAK | |
| 10:30 – 11:50 | Big Data at IPAC (Infrared Processing & Analysis Center) | David Imel Steve Groom |
| 11:50 – 12:00 | Public Comment | |
| 12:00 – 13:00 | LUNCH (in place) 12:15-12:55 Results from Cassini | Prof. Dave Stevenson, Caltech |
| 13:00 – 14:30 | BDTF Studies – Finish | Membership |
| | SCIENCE DATA PROCESSING AND INFRASTRUCTURE | |
| 14:30 – 14:50 | Commercial Partnering in Cloud Computing | Mr. Jim Rinaldi, JPL CIO |
| 14:50 – 15:10 | SDS Plans for SWOT and NISAR | Mr. Hook Hua |
| 15:10 – 15:30 | BREAK | |
| 15:30 – 17:00 | BDTF Studies – Finish | Membership |
| 17:00 | ADJOURN FOR DAY 2 | |

Friday, November 3rd

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|---------------|--|--|
| 8:30 – 9:00 | Assemble/Day 2 Carryover Items | Dr. Charles Holmes Mr. Gerald Smith |
| 9:00 – 11:00 | Finalize Studies, Findings and Recommendations | Membership |
| 11:00 – 11:05 | Public Comment | |
| 11:05 – 12:00 | Final Discussion/Open Action Items | Membership |
| 12:00 | ADJOURN FOR DAY 3 | |



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Dial-In and WebEx Information

For entire meeting November 1-3, 2017

Dial-In (audio): Dial the USA toll-free conference call number 888-324-9653 or toll number 1-312-470-7237 and then enter the numeric participant passcode 3883300. You must use a touch-tone phone to participate in this meeting.

WebEx (view presentations online): The web link is <https://nasa.webex.com>, the meeting number is 991 009 965, and the password is BDTFmtg#6 .

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