



Planetary Science Deep Space SmallSat Mission Concepts
Sunday, March 18, 2018

9:00 a.m.

[Introduction](#)

Mars

9:15 a.m.

Robert Lillis, *University of California, Berkeley*

[Mars Ion and Sputtering Escape Network \(MISEN\)](#)

9:30 a.m.

Anthony Colaprete, *NASA Ames Research Center*

[Aeolus: A Mission to Study the Thermal and Wind Environment of Mars](#)

9:45 a.m.

Luca Montabone, *Space Science Institute*

[Mars Aerosol Tracker \(MAT\): A CubeSat Mission to Monitor the Dynamics of Atmospheric Dust and Water Ice Clouds on Mars](#)

10:00 a.m.

Michael Collier, *NASA Goddard Space Flight Center*

[PRISM: Phobos Regolith Ion Sample Mission](#)

10:15 a.m.

David Minton, *Purdue University*

[Chariot to the Moons of Mars](#)

10:30 a.m. Break

Venus

10:45 a.m.

Valeria Cottini, *University of Maryland, College Park*

[CUVE: CubeSat UV Experiment: Unveil Venus' UV Absorber with CubeSat UV Mapping Spectrometer](#)

11:00 a.m.

Christophe Sotin, *Jet Propulsion Laboratory*

[Cupid's Arrow: A Small Satellite to Measure Noble Gases in Venus' Atmosphere](#)

11:15 a.m.

Attila Komjathy, *Jet Propulsion Laboratory*

[SmallSat Mission Concept to Investigate Seismicity on Venus Using Airglow Measurements](#)

11:30 a.m.

Tibor Kremic, *NASA Glenn Research Center*

[Seismic and Atmospheric Exploration of Venus \(SAEVe\)](#)

11:45 a.m. Lunch Break

Outer Planets

1:00 p.m.

Robert Ebert, *Southwest Research Institute*

[JUperiter Magnetospheric boundary ExploreR \(JUMPER\)](#)

1:15 p.m.

Kunio Sayanagi, *Hampton University*

[SNAP: Small Next-Generation Atmospheric Probe](#)

Small Bodies

1:30 p.m.

Benton Clark, *Space Science Institute (SSI)*

[CAESAR: CubeSat Asteroid Encounters for Science and Reconnaissance](#)

1:45 p.m.

Jeffrey Plescia, *Johns Hopkins University*

[APEX: Asteroid Probe Experiment](#)

2:00 p.m.

Tilak Hewagama, *University of Maryland, College Park*

[Primitive Object Volatile Explorer \(ProVE\): Waypoints and Opportunistic Deep Space Missions to Comets](#)

2:15 p.m. Break

Moon

2:30 p.m.

Suzanne Romaine, *Smithsonian Astrophysical Observatory*

[CubeSat X-ray Telescope \(CubeX\) for Elemental Abundance Mapping of Airless Bodies, and X-Ray Pulsar Navigation](#)

2:45 p.m.

Charles Hibbitts, *Johns Hopkins University*

[Lunar Water Assessment, Transportation, and Resource Mission \(Lunar WATER Mission\)](#)

3:00 p.m.

Noah Edward Petro, *NASA Goddard Space Flight Center*

[Mini Lunar Volatiles \(MiLUV\) Mission: Using a LIDAR Spectrometer to Map Lunar Volatiles](#)

3:15 p.m.

Timothy Stubbs, *NASA Goddard Space Flight Center*

[Bi-Sat Observations of the Lunar Atmosphere Above Swirls \(BOLAS\): Tethered SmallSat Investigation of Hydration and Space Weathering Processes at the Moon](#)

3:30 p.m.

David Draper, *NASA Johnson Space Center*

[Innovative Strategies for Lunar Surface Exploration](#)

Mars 2

3:45 p.m.

Michael Malin, *Malin Space Science Systems*

[Mars Micro Orbiter \(MMO\)](#)