PLANEY SPATIAL INFRASTRUCTURE:
AT THE INTERSECTION OF GISCIENCE AND PLANETARY SCIENCE
1:30 p.m. Waterway Ballroom 4

Chairs: Samuel Lawrence
Daniella DellaGiustina

1:30 p.m. Kirk R. L. *
An introduction to planetary cartography. More than just paper maps, it’s spatial data processing and infrastructure, a key enabler for missions and research.

1:45 p.m. McEwen A. S. * Heyd R. Sutton S. Espinosa Y. Fennema A. et al.
For the People: HiRISE Data Products [#1371]
Power to the Pixels!

2:00 p.m. Chabot N. L. * Denevi B. W. Murchie S. L. Hash C. D. Ernst C. M. et al.
Mapping Mercury: Global Imaging Strategy and Products from the MESSENGER Mission [#1256]
MESSENGER’s global imaging mapping campaigns of Mercury have resulted in seven complementary maps that enable Mercury’s surface to be robustly investigated.

2:15 p.m. Archinal B. A. * Edmundson K. L. Kirk R. L. Gaddis L. R.
Discussion of the importance of registering and geodetically controlling planetary data sets to allow data fusion for maximum science and exploration benefit.

2:30 p.m. DellaGiustina D. N. * Barnouin O. S. Nolan M. C. Johnson C. A. Le Corre L. et al.
Cartographic Planning for the OSIRIS-REx Asteroid Sample Return Mission [#1668]
This abstract presents the cartographic planning being conducted to support the primary objective of the OSIRIS-REx Asteroid Sample Return Mission.

2:45 p.m. Hare T. M. Gaddis L. R. * LaVoie S. K. Isbell C. E. Milazzo M. P. et al.
NASA Planetary Data System Support for Cartographic Sciences [#2281]
The PDS CIS Node supports NASA’s larger image archives, sophisticated search and retrieval tools, and cartographic and technical expertise for planetary bodies.

3:00 p.m. A’Hearn M. F. *
Small Solar System Bodies — Products and Standards [#2739]
We describe the complications involved in mapping small bodies vis a vis the larger bodies of the solar system.

Cartography at the Edge of the Solar System [#2690]
A description of the cartographic process of taking New Horizons images and developing a control network for scientific applications.

3:30 p.m. Williams D. A. *
Cartographic Needs for Geologic Mapping During Active Orbital Planetary Mission [#1588]
I discuss how to implement a geologic mapping campaign during an active planetary mission, and the required cartographic support and products to be successful.
3:45 p.m. Grant J. A. *

Geologic mapping enables robust interpretation of surface evolution and is a critical mission planning tool for guiding rovers to high priority science targets.

4:00 p.m. Bleacher J. E. * Eppler D. E. Garry W. B.

*Cartographic and Geospatial Infrastructure Planning in Support of Human Planetary Exploration Based on Lessons Learned from the Desert Research and Technology Studies* [#2341]
A discussion of cartographic and geospatial infrastructure needs related to missions involving human exploration across the solar system.

4:15 p.m. Laura J. R. *

*At the Intersection of GIScience and Planetary Science* [#2405]
Defining planetary cartography using the GIScience Body of Knowledge.

4:30 p.m. Lawrence S. J. * Hagerty J. Gaddis L. R. Archinal B. A. Radebaugh J. et al.

*The Mapping and Planetary Spatial Infrastructure Team (MAPSIT): Addressing Strategic Planning Needs for Planetary Cartography* [#1710]
The mission and functions, and 2016 community plans for the new Mapping and Planetary Spatial Infrastructure Team are summarized.