

Planetary Lunch Seminar

Open to the EAPS community and beyond

Ariel N. Deutsch

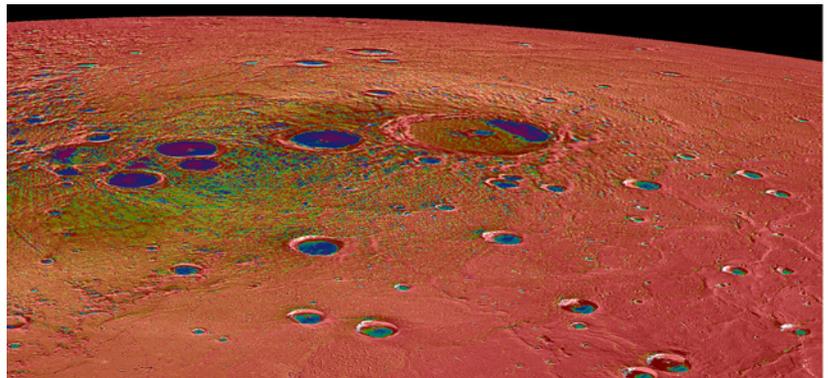
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Tuesday, October 1st

12:30
54-517

Sources and evolution of polar ice on Mercury and the Moon

The poles of Mercury and the Moon both show evidence for water ice, but the deposits on Mercury have a greater areal distribution and a purer concentration. For example, ice deposits on Mercury are several meters thick, and are modeled to be ~95 wt. % pure water ice. In contrast, polar ice on the Moon appears to resemble a patchy frost that is compositionally heterogeneous. In this seminar, we will explore how these differences in purity and distribution of ice at Mercury and the Moon may be related to the ages, sources, and space-weathering histories of the ice.



Calendar of the semester

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9/10	Open Discussion	Open Discussion
9/24	Matt Weller	Evolving Worlds: A Story of Planetary Evolution and Bi-Stability
10/1	Ariel Deutsch (Brown)	Sources and evolution of polar ice on Mercury and the Moon
10/8	Ben Rackham (MIT)	Exoplanets
10/22	Ya Huei Huang (MIT)	The young and old on the Moon
10/29	Open Discussion	Open Discussion
11/5	Jennifer Bergner (Harvard)	Organic complexity in protostellar and protoplanetary disks
11/12	Luca Matra (Harvard)	Debris disks and ALMA
11/19	Paul Corlies (MIT)	Titan's hydrology and clouds
12/3	Elisabeth Matthews (MIT)	Imaging of debris disks

For more information, contact Jason Soderblom (jms4@mit.edu)