

Newsletter 21-18

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REGISTER NOW FOR FALL MEETING (SEP 9 PRESENTER DEADLINE)

Full member registration fee is \$270; all students are \$75; other rates at the link below.

<https://aas.org/meetings/dps53/registration> [1]

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LIMITED DISCOUNTED REGISTRATION

To encourage the sharing of work highly relevant to the planetary science community, but generated by professionals outside of the planetary science community (e.g., social science results relevant to DPS workforce, education/community engagement, or history discussions): a limited number of discounted DPS 2021 meeting registrations are available and can be inquired about via the DPS Professional Climate and Culture Subcommittee: dpspccs@gmail.com [2]. These discounted registrations are intended for persons who submit an abstract to DPS and engage in the meeting, and whose work would benefit the planetary science community, but who in general receive little professional benefit from

attending the meeting (and so generally would not attend).

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DPS MEETING SESSION CHAIRS NEEDED

Will you attend DPS this fall? We need your help! DPS will be held virtually 3-8 October. Please add your name to the list of volunteers to be a session chair or science chat moderator here:

<https://bit.ly/3ycPMBb> [3]. Thanks!

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MERCURY'S SURFACE RESPONSE TO THE INTERPLANETARY ENVIRONMENT: IDENTIFYING NEEDED STUDIES IN LABORATORY ASTROPHYSICS

Date: 24-27 January 2022

Location: Virtually Everywhere

Mercury is a complex system of interconnected parts: its magnetosphere, exosphere, and surface. How this system responds to its interplanetary (solar and dust) environment is equally complex. Numerous models have been developed to understand how solar wind particles and micrometeorites interact with Mercury's magnetosphere and surface to modify the surface spectral, mineral, and chemical properties and to produce the planet's exosphere. However, the reliability of these models hinges on how accurately we understand the underlying physical processes responsible for the observed properties.

This workshop will focus on identifying those physical processes whose uncertainties hinder the field's ability to reliably model Mercury's response to the solar and interplanetary environment. In specific, the workshop will discuss those studies in laboratory astrophysics, both experimental and theoretical, that are most critically needed in order to advance our understanding of Mercury's system.

The goal of this workshop is to produce a series of focused reports to guide the scientific community's efforts for supporting the analysis of the BepiColombo measurements and observations and for future missions. It will examine the limitations of current planetary models that allow us to understand what is observed in situ building on the underlying laboratory astrophysics data. Furthermore, it will outline the current status of laboratory astrophysics studies applicable to the above questions and what experimental and theoretical work is needed to fully address these unknowns.

A modest registration fee to be determined will be requested.

For more details, please visit:

<https://meeting.psi.edu/mercurylab2022/> [4]

or email any questions to: MercuryLabAstro2022@gmail.com [5]

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ARECIBO OBSERVATORY QUARTERLY NEWSLETTER NOW AVAILABLE

The [2021 Summer Arecibo Observatory Newsletter](#) [6] now available! Each newsletter features science highlights and updates about the facility, staff, and current education programs. See all Newsletters here: [AO Newsletters](#) [7]. You can subscribe to receive future newsletters via email: [Join the AO Newsletter list](#) [8].

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AGU SESSION P008 - ENCELADUS: BEACON OF OCEAN WORLDS

Saturn's moon Enceladus continues to captivate. Its diversity of ocean world processes offers a bounty of phenomena for fundamental science, including cryovolcanism and plume dynamics, surface geology and the tectonics of ice, tidal heating, interior structure, ocean circulation dynamics, water-rock geochemistry, hydrothermal systems, the origin and evolution of icy bodies, and much more. Enceladus is a gateway to alien oceans. Furthermore, Enceladus is one of the prime destinations for astrobiology, because of the easy access to ocean-derived materials, and because it appears to be tantalizingly habitable. Many of us are now asking how Enceladus can support life, and how might we search for evidence of life?

This hybrid session (in person and virtual options) brings our diverse community together to discuss the current state of understanding of all things Enceladus. We also welcome contributions that contextualize Enceladus with other areas of Earth and Planetary Sciences, or provide perspectives on the future of Enceladus exploration.

A. TENURE TRACK FACULTY POSITION IN PLANETARY SCIENCE AT BROWN UNIVERSITY

The Department of Earth, Environmental and Planetary Sciences at Brown University invites applications for a tenure-track faculty position in Planetary Science. Ideal candidates are those working on fundamental processes applicable across multiple Solar System bodies and who would broaden and enhance existing departmental strengths in climate and environmental science, geochemistry, geophysics, planetary materials, or remote sensing. We encourage candidates from all fields of planetary science to apply.

<http://apply.interfolio.com/90367> [11]

You may also contact the search committee chair Professor Ralph Milliken (Ralph_Milliken@brown.edu [12]).

Job seekers and employers are encouraged to [browse DPS's job listings](#) [13] and [advertise open positions](#) [14].

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Send submissions to:

Maria Womack, DPS Secretary (dpssec@aaas.org [15])

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- [1] <https://gcc02.safelinks.protection.outlook.com/?url=https%3A%2F%2Faas.org%2Fmeetings%2Fdps53%2Fregistration&data=04%7C01%7Ccatherine.gosmeyer%40nasa.gov%7Cfd22df7c40fb4c11e3be08d956199b76%7C7005d45845be48ae8140d43da96dd17b%7C0%7C0%7C637635490256810733%7CUnknown%7CTWFpbGZsb3d8eyJWljoic4wLjAwMDAiLCJQIjoiV2luMzliLCJBTiI6IklhaWwiLCJXVCI6Mn0%3D%7C1000&sdata=14tSDTAbfybeg3X2qpi013uy2HaL%2BkGIOXjG6QFsFn8%3D&reserved=0>
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- [5] <mailto:MercuryLabAstro2022@gmail.com>
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- [12] mailto:Ralph_Milliken@brown.edu
- [13] <https://gcc02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fdps.aas.org%2Fjobs-list%2Fall&data=04%7C01%7Ccatherine.gosmeyer%40nasa.gov%7Cfd22df7c40fb4c11e3be08d956199b76%7C7005d45845be48ae8140d43da96dd17b%7C0%7C0%7C637635490256860517%7CUnknown%7CTWFpbGZsb3d8eyJWljojMC4wLjAwMDAiLCJQIjoiV2luMzliLCJBTiI6Ikl1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=T9GccPztijkxHadv0SVY%2B%2B2Jslwi9xMBNnamY62IRJQ%3D&reserved=0>
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- [15] <mailto:dpssec@aas.org>
- [16] <mailto:privacy@aas.org>
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