

# Newsletter 18-41

Issue 18-41, October 6, 2018

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## NEOCAM SCIENCE COMMUNITY DISCUSSION AT DPS

The NEOCam Science Team invites the planetary science community to join us for a discussion of NEOCam at the 50th DPS meeting in Knoxville. We will present an overview of the mission concept, including anticipated bandpasses, survey strategy, and data products, as well as discuss some of the avenues of investigation that NEOCam would enable. The discussion will consist of two one-hour blocks with ample time for questions, so attendees may come and go as their schedule dictates. All members of the science community, especially early career researchers and members of historically under-represented groups, are encouraged to attend to learn more about the project.

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## LSST AND THE SOLAR SYSTEM WORKSHOP

4:30-6:00pm Weds Oct 24, 2018, 50th DPS Meeting, Room 301 D-E

(Knoxville Convention Center)

This workshop serves as the annual meeting of the Large Synoptic Survey Telescope (LSST) Solar System Science Collaboration (SSSC) and is open to all DPS attendees. We will provide a brief status of LSST with respect to Solar System science, provide updates on current and future activities within the SSSC, and examine follow-up opportunities in the LSST era.

The presentation schedule is as follows:

- LSST Project & Solar System Data Status Update - Mario Jurić (University of Washington/LSST) & Siegfried Eggl (University of Washington/LSST)
- LSST Solar System Science Collaboration (SSSC) Update - Meg Schwamb (Gemini Observatory) & David Trilling (NAU)
- NOAO Data Lab Capabilities in Support of (LSST) Solar System Science - Frank Valdes (NOAO)
- Gemini Solar System Follow-up in the LSST Era - Bryan Miller (Gemini Observatory)

Contact organizers Meg Schwamb ([mschwamb.astro@gmail.com](mailto:mschwamb.astro@gmail.com) [1])

and David Trilling ([David.Trilling@nau.edu](mailto:David.Trilling@nau.edu) [2]) with any questions

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## FUTURE PLUTO AND KUIPER BELT MISSIONS: THE VIEW FROM 2018

Friday, 26 October | 12:00 pm – 1:30 pm

Room 301 B - DPS Conference Venue, Knoxville TN

### Description:

The Kuiper Belt (KB) is a scientific treasure trove consisting of comets, planetesimals, and small planets like Pluto. Since its discovery in the early 1990s, the KB has yielded fundamental insights into planetary accretion, the migration of planets, and the population structure of our solar system—including the discovery that dwarf planets like Pluto are common there.

The exploration of Pluto by New Horizons in 2015, the first KB dwarf planet to be explored, revealed a richness of geological, atmospheric, satellite, and compositional diversity at Pluto that rivals planets like Mars. The flyby also revealed evidence for Pluto being an actively evolving world over many spatial and temporal scales including evidence for an interior ocean, active glaciers, dunes, tectonics, a wide variety of terrain ages, and a complex atmosphere. Those results, combined with the heterogeneous colors, surface compositions, and satellite systems of other KB dwarf planets beg for an ongoing future in Kuiper Belt exploration.

In this workshop we will survey 2018 work on (i) a return to Pluto with an orbiter, (ii) Centaur missions to study KBOs, and (iii) flyby missions to other KB dwarf planets. We will review community and individual scientist work to motivate NASA to fund future studies leading to the next Decadal Survey.

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REMINDER TO REGISTER FOR THE WOMEN IN PLANETARY SCIENCE  
DISCUSSION HOUR, LUNCHTIME TUESDAY OCT 23RD AT DPS, KNOXVILLE

Although the initial catering deadline has passed we still have some spots/ lunches available for the Women in Planetary Science Discussion Hour at DPS, please register if you think you might attend to so we can judge the seating and lunch capacities correctly :). Registration and more details at: [http://bit.ly/DPS\\_WIPS\\_2018](http://bit.ly/DPS_WIPS_2018) [3].

Basic info: Join us for the annual DPS Women in Planetary Science event over lunch. All are welcome! The main topic will be diversity and inclusion.

Pre-registration is required to receive a lunch, and recommended even if you are bringing your own lunch due to possible room space limitations.

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## JOBS, POSITIONS, OPPORTUNITIES

### A) VISITING ASSISTANT PROFESSOR IN PHYSICS

BEREA COLLEE

BEREA, KENTUCKY

<https://dps.aas.org/content/visiting-assistant-professor-physics> [4]

The Physics Department at Berea College invites applications for a visiting assistant professor, beginning in August 2019. The initial appointment is for one year with the possibility of renewal for up to three years upon satisfactory performance. Applicants should have a Ph.D. in physics, astronomy, geophysics, or a related field at the time of appointment. We seek candidates who demonstrate a strong commitment to undergraduate teaching in a liberal arts context and who are familiar with evidence-based, student-centered teaching. Candidates with a background in planetary science and/or geophysics are particularly encouraged to apply, although all subfields of physics will be considered. The successful candidate will be expected to teach courses in introductory physics, contribute to our new geology/planetary science program, and support the General Education curriculum. The department is seeking an individual with experience working within a community of diverse students and colleagues. Successful candidates will, by their teaching, research, or service, demonstrate that they can contribute to the diversity and excellence of our community. Although this is primarily a teaching position, there is

opportunity for conducting summer research with students through Berea's Undergraduate Research and Creative Projects Program.

Applicants should send a letter of interest, statement of teaching philosophy, statement of scholarly interest, academic transcripts, current CV, three letters of recommendation, and a complete Berea College application form found at <http://www.berea.edu/FacApp> [5] to [PhysicsSearch2018@berea.edu](mailto:PhysicsSearch2018@berea.edu) [6].

Review of applications will begin November 15 and continue until the position is filled.

#### B) ASSISTANT OR ASSOCIATE PROFESSOR IN PLANETARY SCIENCE

PURDUE UNIVERSITY

WEST LAFAYETTE, INDIANA

<https://dps.aas.org/content/assistant-or-associate-professor-planetary-science> [7]

Tenure track position(s) in Planetary Science, Purdue University

The Department of Earth, Atmospheric, and Planetary Sciences (EAPS), within the College of Science at Purdue University, invites applications for one or more tenure-track faculty positions in planetary atmospheres and/or planetary physics. These appointments will be at the level of Assistant or Associate Professor. Growth in planetary science is part of large-scale interdisciplinary hiring effort across key strategic areas in the College of Science. This position comes at a time when the College is under new leadership and with multiple commitments of significant investment.

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Candidates should be able to develop a vigorous, externally funded, internationally recognized theoretical, experimental, and/or observational research program that addresses research questions of fundamental importance. Possible areas of study in planetary atmospheres could include observing and/or modeling of the atmospheres of jovian, terrestrial, exosolar planets or small bodies, and/or the origin of life and habitability. Possible areas of study in planetary physics could include computer modeling of impact processes, planetary origins, or planetary interiors.

Candidates are expected to develop a program that is complementary to existing research within the department and teaching needs at the undergraduate and graduate levels. The potential to develop interdisciplinary, collaborative research that cuts across specialty areas within the department, the College of Science, and Purdue's research community is desirable. Candidates must have completed their Ph.D. in Planetary Sciences or related field at the time of employment. Within EAPS and Purdue, candidates will find supportive colleagues, a diverse and vibrant academic community, with ample opportunities for professional and personal growth.

Purdue University's Department of Earth, Atmospheric, and Planetary Sciences is committed to advancing diversity in all areas of faculty effort, including scholarship, instruction, and engagement. Candidates should address at least one of these areas in their cover letter, indicating their past experiences, current interests or activities, and/or future goals to promote a climate that values diversity and inclusion.

Interested applicants should visit <https://hiring.science.purdue.edu> [8], submit a curriculum vitae, a research statement, a teaching statement, and complete

contact information for at least 3 references. Review of applications will begin January 2, 2019, and will continue until the position is filled.

Questions related to this position should be sent to David Minton ([daminton@purdue.edu](mailto:daminton@purdue.edu) [9]). Applications will be accepted until the position is filled. A background check will be required for employment in this position. Purdue University is an ADVANCE institution.

#### C) ASSISTANT PROFESSOR OF PHYSICS OR ASTRONOMY AT ITHACA COLLEGE

The Ithaca College Department of Physics and Astronomy invites applications for a tenure-track assistant professor to begin in August 2019. The successful candidate will embrace our commitment to undergraduate teaching, advising, and mentorship, will establish an active experimental physics or astrophysics research program or an observational astronomy research program with significant undergraduate student involvement, and will contribute to the operation and improvement of the department, school, and college.

The successful candidate must have completed a Ph.D. in physics, astronomy, astrophysics, or a closely related field by August 1, 2019. Experience as a teacher of record or as a teaching assistant at the undergraduate level is required.

For the complete position announcement and to submit an application, please visit:

<https://ithaca.peopleadmin.com> [10]

Please upload a complete curriculum vitae, a statement of teaching experience and philosophy, a description of research plans, and a statement that addresses how they will contribute to a culture of inclusion and to diversity at Ithaca College. Applicants must also provide names and email addresses of three individuals who will be asked to submit letters of reference. To ensure full consideration, complete applications must be received by October 8, 2018.

#### D) RESEARCH ASSOCIATE IN PLANETARY SCIENCE AT CU BOULDER

The newly formed Exploration of Planetary Ices and Climates (EPIC) group at the University of Colorado's Laboratory for Atmospheric and Space Physics (LASP) is seeking to fill a research position in planetary geophysics and remote sensing. Candidates at the levels of RS-I and RS-II will be considered. The initial appointment is for one year, with opportunities for future extensions.

Research duties include conducting studies of the atmospheres and surfaces of planets and their natural satellites, including Earth's moon, using data from NASA's Lunar Reconnaissance Orbiter, Mars Reconnaissance Orbiter, and/or legacy datasets such as Cassini and Galileo. Candidates with expertise in numerical modeling and simulation of physical phenomena including ice/vapor transport, dynamical processes, or impact cratering are especially encouraged to apply. Studies of exoplanets and exomoons may also be supported.

The CU/LASP EPIC group conducts a diverse research program



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encompassing data analysis, simulation, and theoretical studies to understand the atmospheres and surfaces of icy planets and moons. The group maintains strong involvement in both active and future NASA planetary missions. Inquiries may be directed to Prof. Paul Hayne: [Paul.Hayne@Colorado.edu](mailto:Paul.Hayne@Colorado.edu) [11]

For more details and to apply:

<https://goo.gl/RtEvOX> [12]

#### E) GRAD STUDENT/POSTDOC OPPORTUNITIES IN PLANETARY SURFACE PROCESSES AT UT AUSTIN

Applications are solicited for graduate students and a postdoctoral fellow to join the newly formed UT Austin Planetary Surface Processes Group, headed by Dr. Tim Goudge, in the Department of Geological Sciences at the University of Texas at Austin. Graduate student applications will be considered for Fall of 2019, while the start date of the postdoctoral fellow could be as early as January 2019.

The area of focus for graduate student projects is open within the broad field of planetary surface processes, and will be selected based on research topics of mutual interest. Prospective students can find out more here:

[http://www.timgoudge.com/Files/Goudge\\_Student\\_Ad\\_2018.pdf](http://www.timgoudge.com/Files/Goudge_Student_Ad_2018.pdf) [13]

The two year postdoctoral fellow position will involve research on the incision of paleolake outlet canyons on Mars. Prospective applicants can find out more here:

[http://www.timgoudge.com/Files/Goudge\\_Postdoc\\_Ad\\_2018.pdf](http://www.timgoudge.com/Files/Goudge_Postdoc_Ad_2018.pdf) [14]

Dr. Goudge is strongly committed to building an inclusive research group with diverse perspectives and backgrounds. Applicants from historically underrepresented groups in STEM fields, with non-traditional backgrounds, and/or with a demonstrated interest in efforts to improve inclusion and diversity in STEM are especially encouraged to apply.

Prospective applicants with questions about these opportunities can contact Dr. Goudge at [tgoudge <at> jsg.utexas.edu](mailto:tgoudge@jsg.utexas.edu) [15].

#### F) NASA HUBBLE FELLOWSHIP PROGRAM (NHFP)

On behalf of the NASA Astrophysics Division, the Space Telescope Science Institute (STScI) announces the second annual call for applications for postdoctoral fellowships under the NASA Hubble Fellowship Program (NHFP) #02904, to begin in the Fall of 2019.

The Announcement of Opportunity, which includes detailed program policies and application instructions, is available at the website: <http://nhfp.stsci.edu> [16].

The application submission page will be open today until November 1, 2018.

Please share this employment announcement with your friends, networking groups, mailing lists, and social connections using this link.

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Send submissions to:

Anne Verbiscer, DPS Secretary ([dpssec@aaas.org](mailto:dpssec@aaas.org) [17])

You are receiving this email because you are a DPS member.

To unsubscribe or update your information, please send your request to [privacy@aaas.org](mailto:privacy@aaas.org) [18]. The more general AAS privacy policy is available online at <https://aas.org/about/policies/privacy-policy> [19].

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### Links:

- [1] <mailto:mschwamb.astro@gmail.com>
- [2] <mailto:David.Trilling@nau.edu>
- [3] [http://bit.ly/DPS\\_WIPS\\_2018](http://bit.ly/DPS_WIPS_2018)
- [4] <https://dps.aas.org/content/visiting-assistant-professor-physics>
- [5] <http://www.berea.edu/FacApp>
- [6] <mailto:PhysicsSearch2018@bera.edu>
- [7] <https://dps.aas.org/content/assistant-or-associate-professor-planetary-science>
- [8] <https://hiring.science.purdue.edu/>
- [9] <mailto:daminton@purdue.edu>
- [10] <https://ithaca.peopleadmin.com/>
- [11] <mailto:Paul.Hayne@Colorado.edu>
- [12] <https://goo.gl/RtEvQX>
- [13] [http://www.timgoudge.com/Files/Goudge\\_Student\\_Ad\\_2018.pdf](http://www.timgoudge.com/Files/Goudge_Student_Ad_2018.pdf)
- [14] [http://www.timgoudge.com/Files/Goudge\\_Postdoc\\_Ad\\_2018.pdf](http://www.timgoudge.com/Files/Goudge_Postdoc_Ad_2018.pdf)
- [15] <http://jsg.utexas.edu/>
- [16] <http://nhfp.stsci.edu/>
- [17] <mailto:dpssec@aaas.org>
- [18] <mailto:privacy@aaas.org>

[19] <https://aas.org/about/policies/privacy-policy>