

# Newsletter 18-34

Issue 18-34, August 19, 2018

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## VOLUNTEERS NEEDED FOR DPS 50

We are looking for volunteers for the upcoming DPS 50 Meeting in Knoxville, Tennessee. We'd love to get help from undergrads, grads, postdocs, and local amateur astronomers in a variety of areas, from helping at registration, to ushering at events, to assisting with various other odd (but greatly appreciated) tasks. This is a great opportunity to meet and mingle with your peers, keep up to date with the latest research, and pick up some cool freebies in the Exhibit Hall.

Volunteers who sign up to work a minimum of 10 hours will each receive complimentary meeting registration, a volunteer t-shirt, and will have access to the Exhibit Hall and all the sessions. Please fill out the

[Volunteer Interest form](#) [1] by Friday, 24 August if you are interested in volunteering.

Please note:

1. Filling out this form does not guarantee a volunteer spot. Volunteering is on a first come first served basis, selected individuals will be notified by 31 August 2018. Anyone not selected will be placed on a wait list.
2. We will reach out to selected volunteers with the schedule in mid-September with a detailed offering of times and events to sign up for your hours.
3. New volunteers must attend a mandatory orientation on Sunday, 21 October, at 10:00 am.

Please contact [Sherrie Brown](#) [2] with any questions. Thank you for your interest!

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### UNDERGRADUATE OPPORTUNITY: JOIN NASA'S L'SPACE VIRTUAL ACADEMY

Applications Due Aug 27!

Are you an undergraduate science and engineering student interested in pursuing a career with NASA? Would you like to gain skills, knowledge, and competency in NASA mission protocols, procedures, and practices?

NASA's Lucy Mission to Jupiter's Trojan Asteroids is currently accepting

applications for its new student collaboration program - the Lucy Student

Pipeline Accelerator and Competency Enabler (L'SPACE) Virtual Academy.

This interactive, team-based, 12-week program is designed to engage a diverse population of college/university science and engineering students in rigorous, project-based STEM workforce development. - Learn from engineers and scientists working on NASA missions;

- Participate and apply what you learn in mission-related design challenges;
- Strengthen your resume for internship and career opportunities;
- Receive mission development skills training;
- Acquire strategies to help you effectively market your capabilities to NASA and other space-related companies and organizations; and - Gain helpful insights into the developing space economy workforce demands and opportunities.

Want to know more? Please visit <https://LSPACE.asu.edu> [3] for more information and to access the application.

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#### OPAG UPDATES

The next Outer Planets Assessment Group meeting will be September 11-12, 2018 at the Langham Huntington in Pasadena. In addition to the usual mission, study, and workshop updates, this meeting will include two special sessions: Planetary protection of Icy Moons, and the new Europa Lander concept.

Full agenda and meeting registration are here: <https://www.lpi.usra.edu/opag/> [4]

Webex instructions will be posted as well when available.

If you wish to present a Technology poster at OPAG and/or if you are a student awardee, please send the title and authors to Pat Beauchamp, [pbeauch@jpl.nasa.gov](mailto:pbeauch@jpl.nasa.gov) [5].

An updated version of the OPAG goals document will be posted before the meeting.

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#### LSST AND THE SOLAR SYSTEM WORKSHOP AT DPS 50

Wednesday October 24, 2018 4:30-6:00 pm, 50th DPS meeting,  
Knoxville, TN - Open to all DPS attendees

Organizers: Meg Schwamb (Gemini Observatory) & David Trilling (NAU)

Over its 10 year lifespan, the Large Synoptic Survey Telescope (LSST) will catalog over 5 million Main Belt asteroids, almost 300,000 Jupiter Trojans, over 100,000 NEOs, over 40,000 KBOs, tens of interstellar objects, and over 10,000 comets.

Many of these objects will receive hundreds of observations in multiple bandpasses.

The LSST Solar System Science Collaboration (SSSC) is preparing methods and tools to analyze this data, as well as understand optimum survey strategies for discovering moving objects throughout the Solar System.

This workshop serves as the annual meeting of the LSST SSSC, and is open to everyone. We will provide updates on current and future activities within the SSSC. The emphasis will not be on general LSST background but on details

relevant to Solar System science topics. In particular, this year discussions and presentations will focus on the development of the LSST Moving Object

Processing System (MOPS), the SSSC's feedback/input on upcoming LSST survey cadence decisions, and future community follow-up opportunities.

There will be time set aside for open discussion for both members of the SSSC and the broader planetary community.

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Contact Meg Schwamb ([mschwamb.astro@gmail.com](mailto:mschwamb.astro@gmail.com) [6]) and David Trilling  
([David.Trilling@nau.edu](mailto:David.Trilling@nau.edu) [7]) with any questions

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SCIENCE WITH HABEX: UV TO NEAR-INFRARED SPACE ASTRONOMY IN THE 2030'S

<https://www.simonsfoundation.org/event/the-habitable-exoplanet-observatory-habex-community-science-meeting/> [8]

[The Habitable Exoplanet Observatory \(HabEx\)](#) [9] is one of four concepts currently under study by NASA in preparation for the 2020 Astrophysics Decadal Survey. HabEx is designed to be the next-generation great observatory that has the capability to address physics of the cosmos, cosmic origins, solar system, and exoplanet science. HabEx is a space-based 4-meter diameter telescope with ultraviolet, optical, and near-infrared imaging and spectroscopy capabilities, and 50% of the primary 5-year mission will be dedicated to community involvement through a competed and funded Guest Observer (GO) program.

The purpose of [this meeting](#) [8] is to invite members of the community to present scientific investigations and observational programs that:

- Will be important and relevant in the 2030's.
- Can be specifically conducted - or could benefit from synergistic observations - with HabEx.

To apply to give a presentation, [abstract submissions](#) [10] are due by September 7th.

The [registration](#) [10] deadline to attend the meeting is October 1st.

More information on HabEx can be found on the [HabEx website](#) [9].

See the "[Mission](#) [11]" tab for information on the telescope and instrument capabilities. The most comprehensive information on HabEx can be found in the [HabEx Interim Report](#) [12].

Queries can be sent to:

Scott Gaudi: [gaudi.1@osu.edu](mailto:gaudi.1@osu.edu) [13]

Bertrand Mennesson: [Bertrand.Mennesson@jpl.nasa.gov](mailto:Bertrand.Mennesson@jpl.nasa.gov) [14]

Alina Kiessling: [Alina.A.Kiessling@jpl.nasa.gov](mailto:Alina.A.Kiessling@jpl.nasa.gov) [15]

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#### NASA SEEKS PUBLIC POLICY EXPERT(S)

NASA's Science Mission Directorate is looking for one or more public policy experts to join our Strategic Integration and Management Division, located at NASA Headquarters in Washington, DC.

The individual(s) selected would join a 7-person team focused on providing policy support to SMD's over 90 missions that span Astrophysics, Earth Science, Heliophysics, Planetary Science, and various reimbursable projects for other agencies. The policy team manages SMD's relations with external groups, including Congress, the Office of Management and Budget, the Office of Science and Technology Policy, and external advisory committees and boards. The policy branch also supports the SMD Associate Administrator by providing integrated guidance, strategy, and focused advocacy for NASA's science program.

Below are the links to the Program Planning Specialist (Policy Analyst)

GS-12/13 positions. One announcement is open to all US citizens and US

nationals:

<https://www.usajobs.gov/GetJob/ViewDetails/507856200> [16]

and one announcement is open for candidates with special status based on their current or past government service:

<https://www.usajobs.gov/GetJob/ViewDetails/507855700> [17]

Both close on August 24, 2018.

Please consider applying to one or both of these announcements (based on your eligibility), or forwarding the position information to others who you think might be interested.

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MARS EXPLORATION SCIENCE MONTHLY NEWSLETTER FOR AUGUST 2018

To the Mars Community,

On behalf of Jeff Johnson (MEPAG Chair), Dave Beaty, Rich Zurek, and Serina Diniega of the Mars Program Science Office, the August 2018 edition of the Mars Exploration Science Monthly Newsletter can be found on the web at:

<http://mepag.jpl.nasa.gov> [18]



Please send your Mars community announcements and calendar items for inclusion in the newsletter to Barbara at:

[Barbara.A.Saltzberg@jpl.nasa.gov](mailto:Barbara.A.Saltzberg@jpl.nasa.gov) [19]

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### AGU FALL MEETING LATE-BREAKING SESSION ON THE GLOBAL DUST STORM OF 2018

Conveners: Richard Zurek and Leslie Tamppari, Jet Propulsion Laboratory, California Institute of Technology

Consider submitting an abstract to the new, late-breaking session covering the large martian global dust storm which began in June, 2018! Extended abstract deadline is 15 September, 2018. Even if you have already submitted an abstract to the Fall Meeting, you may still submit a second abstract to this session.

Please visit the AGU Fall Meeting website at

<https://fallmeeting.agu.org/2018/abstract-submissions/> [20]

for more information

#### Session Abstract:

On June 1, a local dust storm moved out of the north circumpolar jet stream in the martian atmosphere, expanding and triggering new dust-raising centers. By late June, the growing ensemble of storms had become a planet-encircling dust event (PEDE), the first since 2007. This PEDE was the second earliest such event, just a few days later than the 2001 PEDE. These events are the major component of interannual-to-decadal variability on Mars and they pose a

challenge to solar powered, surface-based flight systems, namely the Opportunity rover and possibly the upcoming InSight lander. This session solicits observational and modeling presentations related to this year's PEDE, its onset and decay phase, and its context within the history of such events. This includes data acquired by observers from the various Mars flight missions and from Earth-based observers, both in orbit and on the ground.

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### JOBS, POSITIONS, OPPORTUNITIES

#### A) POSTDOCTORAL POSITION – ASTROPHYSICAL INSTITUTE OF THE CANARY ISLANDS

A 2-year post-doctoral position is available at the Astrophysical Institute of the Canary Islands (in Tenerife, Spain) to work within its Solar System Group, led by Drs. Javier Licandro and Julia de León. The project is focused in the compositional characterization of primitive asteroids from ground- and space-based observations, including near-Earth asteroids accesible to spacecraft. The successful candidate will have a Ph.D. degree in Physics/ Astrophysics/Planetary Science. Observational experience (photometry and spectroscopy) as well as skills in data mining will be valuable.

Interested candidates can find more information at:

<http://www.iac.es/info.php?op1=26&id=746> [21]

For questions please contact Dr. Julia de León

([jmlc@iac.es](mailto:jmlc@iac.es) [22] / [juliadeleon23@gmail.com](mailto:juliadeleon23@gmail.com) [23])

## B) POSTDOCTORAL POSITION STUDYING MARTIAN DUST DEVILS

The Jet Propulsion Laboratory, California Institute of Technology invites applications for a postdoctoral research position in the Geophysics and Planetary Geosciences group, which is in the Planetary Sciences Section within the Science Division. This project focuses on changes in dust devil tracks over time in order to measure dust settling timescales, amounts, and rates on Mars. In addition, other projects of the candidate's choosing are also possible, for example involving geomorphology and/or active processes (aeolian, impacts, mass-wasting, etc.) on planetary bodies, especially Mars. Dr. Ingrid Daubar will serve as JPL postdoctoral advisor to the selected candidate.

Candidates should have a recent Ph.D. (within 5 years) in Planetary Science, Geology, Astronomy, Physics, Remote Sensing, or a related field. Experience with remote sensing data analysis, Geographical Information Systems (e.g. ArcGIS), and orbital data, including HiRISE and CRISM, is highly desirable. Diverse and enthusiastic candidates with demonstrated collaboration and communication skills encouraged to apply.

Potential applicants are welcome to contact Dr. Ingrid Daubar to discuss the position. More information here:

<https://postdocs-jpl.icims.com/jobs/9754/jpl-postdoctoral-position-studying-martian-dust-devils/job> [24]

## C) TENURE-TRACK FACULTY IN EXPERIMENTAL BIOPHYSICS

The Department of Physics at Boise State University seeks an experimental biophysicist with a PhD in physics or biophysics, or a closely related discipline, and an undergraduate degree in physics, for a tenure-track physics faculty

position at the rank of Assistant Professor. The position starts August 2019.

The successful hire will build a vigorous externally-funded research program that engages, mentors and supports both undergraduate physics majors and PhD students in Boise State's interdisciplinary Biomolecular Sciences PhD program - <https://biomolecularsciences.boisestate.edu/> [25].

A passion for teaching and learning  
(<https://ctl.boisestate.edu/contact/mission-statement/> [26])

at the undergraduate and graduate levels is essential. The successful candidate will have a commitment to excellent teaching, and to making thoughtful use of evidenced-based active-learning approaches in course instruction.

Requirements Preferred Qualifications: Experience carrying out post-doctoral research Strong publication record attesting to a successful research program Experience of leadership and collaboration in scientific research

Apply online at [physics.boisestate.edu/biophysics](https://physics.boisestate.edu/biophysics) by November 15, 2018.

Boise State University is an affirmative action/equal opportunity employer.

Veterans Preferences.

#### D) POST-DOCTORAL POSITION IN ISOTOPE COSMOCHEMISTRY AND PLANETARY SCIENCE

The School of Earth and Space Exploration (SESE) at Arizona State University (ASU) invites applications for a Postdoctoral Scholar in Isotope Cosmochemistry and Planetary Science.

The NSF supported National SIMS Facility at ASU has an opening for a

prestigious Postdoctoral Scholar position. The NanoSIMS laboratory, part of the ASU-SIMS facility, is used by a wide range of users in cosmochemistry, geology and geochemistry, microbiology and engineering. We are looking for candidates who aim to develop NanoSIMS methodologies that can advance the analytical capabilities of the instrument.

Early expressions of interest and inquiries can be sent to [mbose2@asu.edu](mailto:mbose2@asu.edu) [27]. Complete applications will be reviewed on 15th September and will continue until the position is filled. Additional information about this position is located at:

<https://bit.ly/2Mkjzz> [28]

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Send submissions to:

Anne Verbiscer, DPS Secretary ([dpssec@aas.org](mailto:dpssec@aas.org) [29])

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

To unsubscribe or update your information, please send your request to [privacy@aas.org](mailto:privacy@aas.org) [30]. The more general AAS privacy policy is available online at <https://aas.org/about/policies/privacy-policy> [31].

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- [2] <mailto:sherrie.brown@aas.org>
- [3] <https://space.asu.edu/>
- [4] <https://www.lpi.usra.edu/opag/>
- [5] <mailto:pbeauchu@jpl.nasa.gov>
- [6] <mailto:mschwamb.astro@gmail.com>
- [7] <mailto:David.Trilling@nau.edu>
- [8] <https://www.simonsfoundation.org/event/the-habitable-exoplanet-observatory-habex-community-science-meeting/>
- [9] <https://www.jpl.nasa.gov/habex/>
- [10] <https://www.simonsfoundation.org/flatiron/center-for-computational-astrophysics/events/the-habitable-exoplanet-observatory-habex-community-science-meeting/>
- [11] <https://www.jpl.nasa.gov/habex/mission/>
- [12] [https://www.jpl.nasa.gov/habex/pdf/interim\\_report.pdf](https://www.jpl.nasa.gov/habex/pdf/interim_report.pdf)
- [13] <mailto:gaudi.1@osu.edu>
- [14] <mailto:Bertrand.Menesson@jpl.nasa.gov>
- [15] <mailto:Alina.A.Kiessling@jpl.nasa.gov>
- [16] <https://www.usajobs.gov/GetJob/ViewDetails/507856200>
- [17] <https://www.usajobs.gov/GetJob/ViewDetails/507855700>
- [18] <http://mepag.jpl.nasa.gov/>
- [19] <mailto:Barbara.A.Saltzberg@jpl.nasa.gov>
- [20] <https://fallmeeting.agu.org/2018/abstract-submissions/>
- [21] <http://www.iac.es/info.php?op1=26&id=746>
- [22] <mailto:jmlc@iac.es>
- [23] <mailto:juliadeleon23@gmail.com>
- [24] <https://postdocs-jpl.icims.com/jobs/9754/jpl-postdoctoral-position-studying-martian-dust-devils/job>
- [25] <https://biomolecularsciences.boisestate.edu/>
- [26] <https://ctl.boisestate.edu/contact/mission-statement/>
- [27] <mailto:mbose2@asu.edu>
- [28] <https://bit.ly/2Mkjzz>
- [29] <mailto:dpssec@aas.org>
- [30] <mailto:privacy@aas.org>
- [31] <https://aas.org/about/policies/privacy-policy>