

Newsletter 17-43

Issue 17-43, October 13, 2017

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DPS NOMINATING SUBCOMMITTEE MEMBER ELECTION DURING DPS 49

Our DPS [by-laws](#) [1] allow for the election of a member to the [Nominating Sub-committee](#) [2] each year at the [members meeting](#) [3], Wednesday Oct. 18, 12:30 pm. Nominations of subcommittee candidates are made in person at the members meeting and will not close until at least three members are nominated. Please consider nominating those you think would be good for the position. The membership will then vote at the meeting and elect one person to work with the other two subcommittee members for a 3 year term.

This position is important because they seek candidates to run for the elected offices of Vice-Chair and Committee members. The division's leadership is responsible for our annual meetings and carrying out the activities of the division including managing the division's funds, carrying out its elections, federal relations, education, press activities, web maintenance, providing professional development programs, ensuring a climate conducive to collegial and productive scientific exploration and enabling publication of our scientific results. The main activities for this committee are generally conducted in the spring semester in preparation for summer DPS elections. If you have questions about the tasks please feel free to contact the current nominating subcommittee chair (Kelsi Singer; ksinger@boulder.swri.edu [4]) or [other current/past members](#) [2].

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MESSAGE FROM THE CHAIR: APPLICATIONS FOR ICARUS EDITOR-IN-CHIEF

ACCEPTED UNTIL OCTOBER 15, 2017

Applications for the position of [Icarus](#) [5] Editor-in-Chief will be accepted until October 15, 2017. The application, consisting of a cover letter with a 5-year vision statement and skills and experience brought to the position, Curriculum Vita and publications list, should be submitted [here](#) [6].

Deadline: October 15, 2017.

Questions, contact [Lucy McFadden](#) [7] or [Kate Hibbert](#) [8].

DPS Banquet

You may continue to sign up for the DPS banquet until the close of registration on Sunday October 15, 2017. To include a banquet ticket in your registration, go to [registration](#) [9], click on Register Online for the DPS 49 Meeting, scroll down the page and add the banquet to your registration. You may also sign up when

you pick up your badge at the meeting. The banquet fee covers transportation to and from Sundance resort where the banquet is held.

Invitation to attend Ice Cream Social to close #DPS17

Where: Utah Valley Convention Center

When: Friday Oct. 20, 2017, 3:45-4:30pm

How do I let you know I'll be there? [Doodle poll](#) [10] response to be sure we have enough ice cream

Lucy McFadden

DPS Chair

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ACCESSIBILITY AND INCLUSION INFORMATION FOR 2017 DPS MEETING

Attendees of the 2017 DPS meeting are encouraged to review the Accessibility and Inclusion portion of the meeting web site before traveling to Provo (<https://aas.org/meetings/dps49/accessibility> [11]). There you will find maps of the meeting venue with locations of accessible entrances, quiet rooms, nursing mother rooms, and gender-neutral bathrooms, as well as recommendations and best practices for making the DPS meeting an inclusive environment.

Nancy Chanover

Co-Chair

DPS Professional Culture and Climate Subcommittee

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JWST SOLAR SYSTEM OBSERVATION PLANNING WORKSHOP AT DPS 49

Sunday Oct. 15, 2017, 1pm - 5pm (Cascade C room)

Prior to the workshop participants should:

1. Install the [Astronomers Proposal Tool](#) [12] (APT)
2. Download example APT file from stsci.box.com [13]
3. Create an account at [MyST](#) [14] (Required to save Exposure Time Calculator workbooks)

Agenda and Remote Participation information can be found [here](#) [15].

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JWST SOLAR SYSTEM TOWNHALL AT DPS 49

Tuesday Oct. 17, Noon - 1:30pm (Cascade D room)

- JWST Project Status
- Guaranteed Time programs
- General Observer program: How to propose

Box lunches available for the first 50 participants.

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JWST OBSERVATION PLANNING WORKSHOP FINAL ANNOUNCEMENT

JWST Observation Planning Workshop, Nov. 13 - 15 2017

Space Telescope Science Institute, Baltimore, MD

REGISTRATION Closes Oct. 15, 2017

[Workshop and registration information.](#) [16]

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NEWS FOR THE PLANETARY COMMUNITY FROM THE NASA/IPAC INFRARED SCIENCE ARCHIVE (IRSA)

(1) NEOWISE 2017 data release

The 2017 data release for NEOWISE was in June 2017. The 3-year NEOWISE archive now contains over 7.7 million calibrated image sets and over 57 billion source detections overall. As of mid-September 2017, NEOWISE is 55% into its eighth sky coverage since the start of the Reactivation mission. Over 691,000 infrared measurements have been made of 27,628 different solar system objects, including 735 NEOs and 128 comets. See these websites for data access and

more information:

<http://irsa.ipac.caltech.edu/Missions/wise.html> [17]

<http://wise2.ipac.caltech.edu/docs/release/neowise/> [18]

<https://neowise.ipac.caltech.edu/> [19]

This video playlist collects all the WISE and Solar System Object relevant videos:

https://www.youtube.com/playlist?list=PL3UuvF_s8KWJ0HAT-6KcFFOp74MV9eKM5 [20]

(2) Time Series Tool IRSA has a new Time Series Tool: <http://irsa.ipac.caltech.edu/irsaviewer/timeseries> [21]

This tool allows exploration and analysis of time series observations. For WISE/NEOWISE and PTF, users can view measurements as a function of time, simultaneously visualize the single-epoch images, and optionally find the period of variability. Partial functionality is available for other data sets. This video playlist collects all the relevant movies on the Time Series Tool:

https://www.youtube.com/playlist?list=PL3UuvF_s8KWKppThkUGibSXgSrH2wxgFY [22]

This video describes how to use this tool for Solar System Objects: <https://youtu.be/cA1ZzK2xAw8> [23]

(3) IRTF archive coming to IRSA Starting in Feb 2018, IRSA will host the public archive for the NASA/Infrared Telescope Facility (IRTF). The archive will serve raw data from the SpeX and iSHELL instruments.

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ASTROBIOLOGY 2017 FINAL ANNOUNCEMENT – POSTER DEADLINE, PROGRAM, AND MORE

The date is quickly approaching for Astrobiology 2017

(Coyhaique, November 26-December 1, 2017).

<http://www.astrobiology2017.org> [24]

POSTER CONTRIBUTION AND REGULAR REGISTRATION DEADLINE

The poster contribution and regular registration deadlines have been EXTENDED until October 20, 2017. Don't miss the chance to participate and send in your poster contribution!

ASTROBIOLOGY 2017 BEST POSTER AWARD An award has been established for the best poster; it will be selected during the week of the conference. The link to the abstract submission form will be send with the confirmation email after your registration.

PROGRAM

61 superb oral contributions have already been selected while the number of participants keeps growing. For the final program and an updated list of participants check:

<http://astrobiology2017.org/scientific-programme/> [25] <http://astrobiology2017.org/participants/> [26]

HOW TO GET THERE

The closest airport is Balmaceda airport (BBA), airport transfers follow a direct, yet scenic, route to Coyhaique. You can secure a transportation from the registration platform or upon arrival to the airport. For more information on how to get to Coyhaique plus local information, please click <http://astrobiology2017.org/coyhaique-tours/> [27]

TRAINING SCHOOL

All the seats for the Training School preceding Astrobiology 2017 have been taken. We will soon contact those registered there for meal

alternatives. For more information on the training school,
please click <http://astrobiology2017.org/training-school/> [28].

EXPLORE PATAGONIA

Make sure you don't miss this chance to see one of the most
wonderful landscapes on Earth. There are several alternatives to
explore Patagonia before and after the meeting at
<http://astrobiology2017.org/coyhaique-tours/> [27].

FOLLOW US

Pre-register at the bottom of <http://astrobiology2017.org> [29]
to receive updated information, and follow us in Twitter and Facebook:
<http://twitter.com/astrobio2017> [30] <http://facebook.com/astrobio2017> [31]

With best regards,

Patricio Rojo (LOC's chair)

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42nd SCIENTIFIC ASSEMBLY OF THE COMMITTEE ON
SPACE RESEARCH (COSPAR)

Pasadena, California, 14-22 July 2018.

The Committee on Space Research (COSPAR) will hold its 42nd Scientific
Assembly in Pasadena, California, USA, on 14-22 July, 2018. The COSPAR
Scientific Assemblies supply a forum to all scientists involved in space
research for the presentation of their latest scientific results, the exchange
of knowledge and also the discussion of space research problems.

Abstract submission is now open (deadline 9 February, 2018)

<http://cospar2018.org> [32]

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ICE GIANT EXPLORATION WORKSHOP AT DPS 49

Workshop: The Next Steps in Ice Giant Exploration

Time: Monday, 16 October 2017, 12:00 - 13:15

Location: "Cascade C" room of the Convention Center

Organizers: Mark Hofstadter, Amy Simon, and Zibi Turtle

This workshop is an opportunity for interested members of the community to discuss the future of ice giant exploration. The discussion, moderated by members of the science team for the recently completed Ice Giant mission study (https://www.lpi.usra.edu/icegiants/mission_study/ [33]), will address the

following topics:

- * Research within the R&A programs,
- * Juno and Cassini results that inform ice giant science and missions,
- * The role of Flagship, New Frontiers, and Discovery missions in ice giant exploration,
- * Atmospheric probes,
- * Instrumentation and technology development for ice giant exploration.

For more information, contact Mark.Hofstadter@jpl.nasa.gov [34]

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PLANETARY RESOURCES WORKSHOP AT DPS 49

Time: Wednesday, 18 October 2017, 12:00

Location: "Battle Creek" room of the Convention Center

Planetary Resources, the asteroid mining company, is developing methodology to quantify water abundance on volatile-rich C-complex NEAs in order to perform resource assessment. While spectral measurements in the visible to near-infrared regions can reveal a NEA's hydration state, these reflectance measurements are only sensitive to the optical surface. Additionally, spectral measurements of surface hydration (and spectral measurements in general) can be affected by poorly understood processes that may hinder accurate resource assessment. As such, a deeper understanding of the underlying mechanisms affecting asteroid surfaces is required. The goal of this workshop is to bring together experts from across multiple disciplines to facilitate a broad technical discussion around this complex challenge. Topics of interest for discussion include but are not limited to space weathering, thermal processing of asteroid surface material, carbonaceous chondrite mineralogy, regolith formation and sorting, solar wind implantation of H, and any other processes that may affect the quantification of water on asteroids.

Akbar Whizin

Elizabeth Frank

John Shriver

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LSST AND THE SOLAR SYSTEM WORKSHOP AT DPS 49

Thursday October 19 2017, 4:30-6:30 pm, 49th DPS meeting, Cascade E
(Utah Valley Convention Center)

This workshop serves as the annual meeting of the Large Synoptic Sky

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 and provide updates on current and future activities within the SSSC.

The presentation schedule is as follows:

- LSST & Solar System Science Collaboration (SSSC) Update: Where is the SSSC Headed in 2018? - Meg Schwamb (Gemini Observatory) & David Trilling (NAU)
- The LSST Observing Strategy: Upcoming Opsim Simulations, Small Body Metrics, and White Papers - Lynne Jones (University of Washington/LSST)
- LSST Solar System Data Products and Moving Object Processing System (MOPS) Status - Mario Jurić (University of Washington/LSST)
- The Minor Planet Center: Status and Plans - Matt Holman (Harvard CfA/MPC)
- Community Feedback on the Planned LSST Solar System Database Schema

Contact organizers Meg Schwamb (mschwamb.astro@gmail.com [35]) and

David Trilling (David.Trilling@nau.edu [36]) with any questions

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FUTURE KUIPER BELT MISSIONS WORKSHOP AT DPS 49

Sunday, 3:30 pm at DPS 49 Provo, Battle Creek Room

Interested DPS members please join us Sunday, October 15th, from 3:30-5:30 pm for a focused workshop on future missions to the Kuiper Belt. The workshop will take place in the Battle Creek room of the Utah Valley Convention Center (DPS 49 conference venue). No pre-registration required.

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.

In this workshop we will review the scientific case to return to Pluto with an orbiter, as well as the scientific case to explore other small KB planets and smaller bodies with flybys or orbiters. We will go beyond this to discuss possible mission payloads. Finally, we will solicit community and individual scientist interest in future studies leading to the next Decadal Survey.

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TRICK OR TREAT AND TELESCOPES

DPS is continuing its Trick-or-Treat and Telescopes Program. We are encouraging people to put out their telescopes during trick-or-treat time on Halloween, in their own lawns or in a neighbor's lawn with better viewing (or more traffic). The following website gives advice and connections to resources.

<https://dps.aas.org/education/trick-or-treat-and-telescopes> [37]

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JOBS, POSITIONS, OPPORTUNITIES

A) POSTDOCTORAL RESEARCHER

SHOCK COMPRESSION LAB

UNIVERSITY OF CALIFORNIA DAVIS

Professor Sarah Stewart's group in the Department of Earth and Planetary Sciences seeks a postdoctoral researcher to conduct experimental work in the department's Shock Compression Lab. The lab's primary research themes



focus on understanding the role of material properties in governing the outcome of large impact events, including the physical and chemical processes that shape planetary formation and early Earth evolution and habitability.

The successful candidate will conduct shock physics experiments using the laboratory's two light gas guns and will contribute to diagnostic development for in-situ spectroscopy and time-resolved measurements of thermodynamic properties in shock-compressed materials. The candidate may also participate in ongoing collaborations at external facilities or through the group's participation in the UC Center for Frontiers in High Energy Density Science.

Minimum qualifications: A PhD in physics, geology, chemistry, materials science or a related field is required.

Desired qualifications: Prior experience on similar experimental platforms is preferred but not required. Prior experience with high pressure-temperature thermodynamics and equation-of-state studies and/or experience with optical systems, spectroscopic data or pyrometry would be particularly beneficial, as would experience designing and conducting high-pressure experiments.

Candidates should have demonstrated ability to work independently within their areas of expertise; however, experimental and computational support is available, and collaboration in a group setting is expected to support ongoing research projects.

To apply: The position is available immediately and will remain open until filled. Interested candidates should contact Dr. Dylan Spaulding (dkspaulding@ucdavis.edu [38]) and include a CV and brief statement of research

interests.

B) ASTROMETRY LABORATORY INSTRUCTOR AND OBSERVATORY MANAGER

Wellesley College

Wellesley, Massachusetts

The Astronomy Department of Wellesley College, a highly selective liberal arts college devoted to educating women who will make a difference in the world, invites applications for a non-tenure track, renewable faculty position as Laboratory Instructor in Astronomy and Observatory Manager, beginning in July 2018.

The Astronomy Department is dedicated to providing outstanding classroom and research opportunities in astronomy for students of all levels and backgrounds, from non-science majors to budding planetary scientists and astrophysicists. We seek a colleague who shares our passion for the education of undergraduate women, with demonstrated experience in hands-on astronomical observations and instrumentation, a desire to collaborate, a zest for public outreach, and strong leadership and communication skills. An advanced degree in astronomy or a closely related field is required. We strongly encourage applications from candidates who share our goal of building a diverse community.

The successful applicant will be responsible for:

- Laboratory instruction and support for astronomical observations across the Astronomy Department curriculum, making use of both historical and research grade observing facilities at the College's on-campus Whitin Observatory
- Management and maintenance of the Whitin Observatory's laboratory and research instrumentation and facilities
- Curricular innovation to help shape hands-on, discovery-based learning, from introductory courses for non-majors to advanced opportunities for upper-level students

● Training and management of the nighttime student staff, and supervision of community outreach activities at the Whittier Observatory

The appointment as Instructor in Science Laboratory/Observatory Manager (ISL/OM) is renewable upon successful review. It is a full-time position during the nine months spanning the academic year (September - May), with an additional stipend during the summer to support the management of the Observatory during the annual summer research session, and to maintain equipment for the upcoming academic year.

For more information about the Astronomy Department, our on-campus Whittier Observatory, and our curriculum we invite you to visit our webpage at <http://www.wellesley.edu/astronomy> [39]. The Astronomy Department is a founding member of the Keck Northeast Astronomy Consortium (<http://astro.swarthmore.edu/knac/> [40]).

For more information about Wellesley College, please visit <http://www.wellesley.edu> [41].

To apply for this position, please submit a letter that describes your relevant teaching, public outreach, and instrumentation skills, a CV, and three letters of recommendation at <http://career.wellesley.edu/postings/1855> [42]. The deadline for applications is December 19, 2017. For more information, feel free to contact Richard French, Chair of the Astronomy Department, at rfrench@wellesley.edu [43].

C) POSTDOCTORAL POSITION

Europa Ridge Modeling at Purdue University

The Planetary Program at Purdue University is seeking an individual to join a 3-year effort to model the formation of Europa's ubiquitous ridges.

The position is initially a one-year appointment with the possibility of



extension for up to three years. We seek someone with strong quantitative and modeling skills that can apply finite element methods and analytic models to the thermo-mechanical interaction of water in dikes and Europa's cold near-surface ice shell. A familiarity with UNIX is required and experience in FORTRAN programming is desirable.

Applicants must have a Ph.D. in a field related to Physics, Geophysics or Planetary Science and appropriate computer and modeling skills. Salary and benefits are highly competitive. The appointment can begin as early as January 2018. Applications should include a CV, bibliography and names of at least three referees. We prefer electronic submission directly to jmelosh@purdue.edu [44]. Applications completed by January 1, 2018 will be given full consideration, although the search will continue until the position is filled. A background check is required for employment in this position.

Purdue University is an EOE/AA employer. All individuals, including minorities, women, individuals with disabilities, and veterans are encouraged to apply.

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Send submissions to:

Anne Verbiscer, DPS Secretary (dpssec@aas.org [45])

To unsubscribe visit <http://aas.org/unsubscribe> [46] or email unsubscribe@aas.org [47].

To change your address email address@aas.org [48]

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Links:

- [1] <https://dps.aas.org/sites/dps.aas.org/files/bylaws/2008.pdf>
- [2] <https://dps.aas.org/leadership/nominating>
- [3] https://docs.google.com/spreadsheets/d/e/2PACX-1vS4d5fEFDtKJ5lJeJs_pmzZJCZO1zkgfM4frToa2GoU0Q8OKYTEUXr9P-l0xiNdQwH24DFT_SiURP0zv/pubhtml
- [4] <mailto:ksinger@boulder.swri.edu>
- [5] <https://www.journals.elsevier.com/icarus/>
- [6] <https://dps.aas.org/publications/icarus-editor-in-chief-application>
- [7] <mailto:DPS.Chair@aas.org?subject=Inquiry%20about%20Icarus%20Editor-in-Chief%20position>
- [8] <mailto:k.hibbert@elsevier.com?subject=Inquiry%20about%20Icarus%20Editor-in-Chief%20position>
- [9] <https://aas.org/meetings/dps49/registration>
- [10] <https://doodle.com/poll/39fb9y4mtc83bh76>
- [11] <https://aas.org/meetings/dps49/accessibility>
- [12] <http://www.stsci.edu/hst/proposing/apt>
- [13] <https://stsci.box.com/s/t5jv7tvn5fq4123zt8ikgf9zuf71mdjg>
- [14] <https://profile.stsci.edu/>
- [15] <https://jwst.stsci.edu/news-events/events/events-area/stsci-events-listing-container/division-of-planetary-science-49th-meeting?mwc=4>
- [16] <https://jwst.stsci.edu/news-events/events/events-area/stsci-events-listing-container/planning-solar-system-observations-with-jwst---stsci-venue?mwc=4>
- [17] <http://irsa.ipac.caltech.edu/Missions/wise.html>
- [18] <http://wise2.ipac.caltech.edu/docs/release/neowise/>
- [19] <https://neowise.ipac.caltech.edu/>
- [20] https://www.youtube.com/playlist?list=PL3UuvF_s8KWJ0HAT-6KcFEOp74MV9eKM5
- [21] <http://irsa.ipac.caltech.edu/irsaviewer/timeseries>
- [22] https://www.youtube.com/playlist?list=PL3UuvF_s8KWKPpThkUGibSXgSrH2wxgFY
- [23] <https://youtu.be/cA1ZzK2xAw8>
- [24] <http://www.astrobiology2017.org/>
- [25] <http://astrobiology2017.org/scientific-programme/>
- [26] <http://astrobiology2017.org/participants/>
- [27] <http://astrobiology2017.org/coyhaique-tours/>
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- [31] <http://facebook.com/astrobio2017>
- [32] <http://cospar2018.org/>
- [33] https://www.lpi.usra.edu/icegiants/mission_study/
- [34] <mailto:Mark.Hofstadter@jpl.nasa.gov>
- [35] <mailto:mschwamb.astro@gmail.com>
- [36] <mailto:David.Trilling@nau.edu>
- [37] <https://dps.aas.org/education/trick-or-treat-and-telescopes>
- [38] <mailto:dkspaulding@ucdavis.edu>
- [39] <http://www.wellesley.edu/astronomy>



- [40] <http://astro.swarthmore.edu/knac/>
- [41] <http://www.wellesley.edu/>
- [42] <http://career.wellesley.edu/postings/1855>
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- [44] <mailto:jmelosh@purdue.edu>
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