

# Newsletter 18-42

Issue 18-42, October 13, 2018

+-----CONTENTS-----+

- 1. COMMUNITY ANNOUNCEMENTS AT THE DPS MEETING
- 2. LOOKING FOR SCIENTISTS TO VOLUNTEER FOR THE DPS MEETING
- 3. DPS NOMINATING SUBCOMMITTEE MEMBER ELECTION DURING DPS 50
- 4. NEW PHOTO GALLERIES AVAILABLE FOR 2016 AND 2017 DPS MEETINGS
- 5. DPS WORKSHOP REMINDER: JUNO AND JUNO-SUPPORTING JUPITER ATMOSPHERIC RESULTS
- 6. DPS WORKSHOP: PRIMITIVE OR PROCESSED? CARBON IN TODAY'S SOLAR SYSTEM VS. THE EARLY SOLAR SYSTEM AND THE INTERSTELLAR MEDIUM
- 7. LSST SOLAR SYSTEM HACKATHON AT DPS
- 8. TRICK OR TREAT AND TELESCOPES
- 9. JOBS, POSITIONS, OPPORTUNITIES

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1-----1-----1-----1-----1-----1-----1-----1-----1-----1

## COMMUNITY ANNOUNCEMENTS AT THE DPS MEETING

DPS will try something new in the program at this year's meeting. We have allotted 5 minutes at the beginning of the plenary sessions for oral announcements about items of broad interest to our community. If you would like to make a very short announcement (no longer than 2 minutes), please send a short description of your topic to [mmcgrath@seti.org](mailto:mmcgrath@seti.org) [1] for coordination and approval by DPS leadership.

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## LOOKING FOR SCIENTISTS TO VOLUNTEER FOR THE DPS MEETING

Consider giving an hour of your time to support early career scientists and

undergraduate students

We are looking for DPS members to volunteer for two events being sponsored by DPS at the upcoming meeting in Knoxville.

1) We are looking for scientists to give feedback to early career scientists as

they preview their presentations for the meeting -  
Sunday October 21st at 3pm  
Monday October 22nd at lunch  
Monday October 22nd at 4pm

2) We are looking for scientists to spend one hour with undergraduate students in local intro planetary science courses (Exploring the Planets) mostly freshmen and sophomores. We want to make sure that each group of students meet and become comfortable with several scientists. There will be a faculty member and TA with each group so that you can spend time talking to students. Your commitment is one hour in each time slot (not the entire time).

- Tuesday, Oct 23rd, 11:15 am – 1:45 pm
- Wednesday, Oct 24th, 8:00 am – 10:30 am
- Wednesday, Oct 24th, 12:15 pm – 2:45 pm
- Wednesday, Oct 24th, 2:45 pm – 5:15 pm
- Thursday, Oct 25th, 1:30 pm – 4:00 pm
- Friday, Oct 26th, 12:30 pm – 3:00 pm

Please contact Sanlyn Buxner, [buxner@psi.edu](mailto:buxner@psi.edu) [2] if you are willing to volunteer your time for either (or both!) events

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#### DPS NOMINATING SUBCOMMITTEE MEMBER ELECTION DURING DPS 50

Our DPS [by-laws](#) [3] allow for the election of a member to the [Nominating Sub-committee](#) [4] each year at the [members meeting](#) [5] - this year's Members Meeting takes place on Wednesday Oct. 24, 12:30 pm.

Nominations of subcommittee candidates are made in person at the Members

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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 outgoing nominating subcommittee chair (Kelsi Singer; [ksinger@boulder.swri.edu](mailto:ksinger@boulder.swri.edu) [6]), the incoming chair (Yvonne Pendelton, [yvonne.pendleton@nasa.gov](mailto:yvonne.pendleton@nasa.gov) [7]) or [other current/past members](#) [4].

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**NEW PHOTO GALLERIES AVAILABLE FOR 2016 AND 2017 DPS MEETINGS**

Henry Throop has kindly put together photo galleries from the Pasadena 2016 and Provo 2017 DPS meetings. Please find their links, as well as links to other galleries, at <https://dps.aas.org/history/dps-history> [8]

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**DPS WORKSHOP REMINDER: JUNO AND JUNO-SUPPORTING JUPITER ATMOSPHERIC RESULTS**

Sun Oct 21, 2018, 1:00-6:00pm Room 301 B (Knoxville Convention Center)

This is immediately prior to the 50th AAS/DPS meeting, but no DPS registration is required to attend this meeting.

The workshop is intended to foster collaboration and discussion between the Juno science team and the Earth-based observation community. We will have people from the Juno project present mission updates and members of the Earth-based community present updates on their observations. The structure of the meeting will be informal in order to encourage interactions between all participants.

There is no registration required for this workshop, but please send us an email ([fachreddin.tabataba-vakili@jpl.nasa.gov](mailto:fachreddin.tabataba-vakili@jpl.nasa.gov) [9] and/or [Glenn.S.Orton@jpl.nasa.gov](mailto:Glenn.S.Orton@jpl.nasa.gov) [10]) if you intend to give a brief talk relating to Juno or Jupiter. This will help our organization.

We are working on some requests for WebEx participation, but this capability is not guaranteed at this time.

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DPS WORKSHOP: PRIMITIVE OR PROCESSED? CARBON IN TODAY'S SOLAR SYSTEM VS. THE EARLY SOLAR SYSTEM AND THE INTERSTELLAR MEDIUM

As part of the SSERVI-sponsored series of workshops on Carbon in the Solar System, we will be holding a panel discussion at DPS called "Primitive or Processed?" Recent investigations within our Solar System, including the Pluto system, the Saturn system, Mercury, and nearly all points in between,

point to carbon in some form on many bodies, though its nature is often elusive.

The event will assemble a panel of experts (see below) to discuss carbon in the solar system (in meteorites and on planetary surfaces) and in the interstellar medium, and the relationships between them. How processed are the carbon compounds found across the solar system, compared to the carbon in the ISM? How does the processing occur, and on what timescales? What future measurements can help us to better understand carbon in our solar system?

Expert panelists include Dr. Yvonne Pendleton (NASA Ames), Dr. Diane Wooden (NASA Ames) and Dr. Kelly Miller (SwRI San Antonio). We hope you'll join us for an engaging discussion!

Details:

Sunday Oct 21, 3-6 PM

Ballroom F-G

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LSST SOLAR SYSTEM HACKATHON AT DPS

Thursday October 25, 2018 4:00-7:30 pm  
Room 200 B-C (Knoxville Convention Center), 50th DPS meeting, Knoxville, TN

Open to all DPS attendees

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

The main goal of the Large Synoptic Survey Telescope (LSST) [Solar System Science Collaboration \(SSSC\)](#) [11] is to facilitate the efforts of the planetary community to study the planets and small body populations residing

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within our Solar System using LSST data. Over its 10 year lifespan, the LSST will observe and 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. To prepare for future survey cadence decisions and ensure that interesting and novel Solar System science is achievable with LSST, the SSSC is organizing a Hackathon at DPS. The aim is spend several hours working intensively on collaborative projects related to community preparations for when LSST turns on. Past Hack day or SSSC sprint experience is not required. Come ready with a project idea or join someone’s pitched project. Programming experience is not a requirement. This workshop is focused towards SSSC members, but any DPS attendee is welcome to attend. Please register at <https://goo.gl/forms/1RoZLOVO9cbtObU33> [12] to reserve a spot.

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#### TRICK-OR-TREAT AND TELESCOPES

DPS is continuing its Trick-or-Treat and Telescopes Program. Put out your telescopes - or even binoculars - during trick-or-treat time on Halloween, in your own lawn or in a neighbor’s lawn with better viewing (or more traffic). The following website gives advice and connections to resources. If you have any pictures of your event, please send them to [bonnie.buratti\(at\)jpl.nasa.gov](mailto:bonnie.buratti@jpl.nasa.gov) <https://dps.aas.org/education/trick-or-treat-and-telescopes> [13]

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#### JOBS, POSITIONS, OPPORTUNITIES

##### A) GSFC RESEARCH ASSOCIATE IN NOBLE GAS ANALYSIS

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Applications are now being accepted for a Research Associate to work on the development of Ar-Ar analysis and dating of geologic samples at NASA/GSFC. This position may be filled at the postdoctoral level or for more senior researchers as a visiting scholar. The successful candidate would join scientists in the Noble Gas Lab to develop the capability for Ar-Ar geochronology on our multicollector instruments, and use it to address questions about solar system materials, for example, the origin of meteorites, the age of aqueous alteration, or other research of mutual interest. The MNGRL facility comprises two multicollector magnetic sector mass spectrometers (Nu Noblesse and Thermo Helix) with various modes of gas extraction (laser and furnace), two in situ geochronology development projects, and sample examination and preparation capabilities. Applicants should hold a Ph.D. in geosciences or a related field and have experience in noble gas analysis of geologic samples, either terrestrial or extraterrestrial. US citizenship is not required. Applications are due by November 2, 2018; package materials and address can be found at <https://cresst2.umd.edu/opportunities/researchopp.html> [14]. For more information, contact Dr. Barbara Cohen ([Barbara.A.Cohen@nasa.gov](mailto:Barbara.A.Cohen@nasa.gov) [15]).

## B) 2019 EXPLORATION FELLOWSHIP IN EARTH AND SPACE SCIENCE

SCHOOL OF EARTH AND SPACE EXPLORATION

ARIZONA STATE UNIVERSITY

TEMPE, ARIZONA

The School of Earth and Space Exploration (SESE) at Arizona State University invites applications for the postdoctoral research scholar position of Exploration Fellow. The mission of the postdoctoral fellowship is to foster SESE's interdisciplinary research program by attracting and supporting outstanding early-career scientists and engineers to pursue independent research in collaboration with SESE faculty.

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Research areas within SESE encompass theoretical and observational astrophysics, astrobiology, cosmology, earth and planetary science, instrumentation and systems engineering, and science education. Anticipated start date for the position is July 2019.

Incoming Fellows will receive an annual stipend of \$65,000 with health benefits, plus \$12,000 per year in discretionary research funds. A relocation allowance will be provided. The initial appointment is for one year with subsequent annual renewal for up to a total of three years, contingent upon satisfactory performance, the needs of the university, and availability of resources.

Interested candidates should contact two faculty members in SESE to discuss potential collaborative research topics and determine whether they would agree to serve as an Exploration Fellow mentor. When a topic of mutual interest between the applicant and potential faculty mentors is identified, the applicant should submit a research proposal as a single PDF that includes: (1) a cover letter identifying the proposed research topic and the names of the two faculty mentors, (2) a current CV, (3) a research proposal not longer than five pages (including figures and references), and (4) one paper exemplifying the applicant's research. Applicants should arrange for three letters of reference to be submitted separately. Preference will be given to proposals that include interdisciplinary research spanning multiple research areas within SESE.

Essential duties of the position: The successful applicant will conduct original research, document results and write journal articles, and present at scientific meetings. Minimum Qualifications: Ph.D. by the time of appointment in a field relevant to Earth and Space exploration, including (but not limited to) astrophysics, physics, chemistry, geology, biology, and engineering. Candidates must be within five years from receipt of the doctoral degree.

Desired Qualifications: (1) research proposal that demonstrates relevance, interdisciplinary merit, and/or potential impact of the proposed research activities to the overarching “big picture” research questions in the field and to the mission of SESE, (2) a record of prior achievement and experience demonstrating the potential to accomplish proposed research objectives, (3) evidence of strong verbal and written communication skills.

Application materials (and any questions) should be submitted by email to [exppd@asu.edu](mailto:exppd@asu.edu) [16], addressed to the Exploration Fellowship Committee. Applications will only be given full consideration when all materials described above are received. Initial review of complete applications will begin on December 1, 2018; if not filled, application review will continue weekly until the search is closed. Reference Job ID 12578. A background check is required for employment.

More information about the Exploration Fellowship can be found at:

<http://sese.asu.edu/exploration-fellowship> [17]

More information about the department can be found here: <https://sese.asu.edu/> [18]

Postdoctoral benefits can be found at: <https://cfo.asu.edu/postdoctoral-scholars> [19]

### C) APPLICATIONS SOLICITED FOR TENURE-TRACK ASSISTANT PROFESSOR

The Department of Physics/Astronomy and Department of Geology at Western Washington University (WWU) invite applications for a tenure track Assistant Professor of Planetary Science. This position has an expected start date of September 2019, and will be split evenly between the two departments, with Physics as the administrative lead department for purposes of annual review, tenure and promotion. Teaching assignments will be focused in Geophysics, a program shared between the departments.

We seek applicants whose research and teaching examines the role of physical processes in planet formation and evolution, planetary interiors, surfaces, atmospheres and/or magnetospheres, small bodies, solar system dynamics, or related topics. The preferred candidate will be expected to develop and maintain a vigorous research program that

complements existing strengths in remote sensing, planetary geology, seismology, magnetism, and tectonics, to engage students in this research, and to teach undergraduate courses at all levels, using student-centered instructional approaches when appropriate.

<http://employment.wvu.edu/cw/en-us/job/496058/assistant-professor-of-planetary-science> [20]

#### D) 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> [21].

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@aas.org](mailto:dpssec@aas.org)) [22]

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) [23]. The more general AAS privacy policy is available online at <https://aas.org/about/policies/privacy-policy> [24].

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## Footer

- [Reports](#)
- [Photos](#)
- [History](#)
- [Bylaws](#)
- [Giving](#)

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### Links:

- [1] <mailto:mmcgrath@seti.org>
- [2] <mailto:buxner@psi.edu>
- [3] <https://dps.aas.org/sites/dps.aas.org/files/bylaws/2008.pdf>
- [4] <https://dps.aas.org/leadership/nominating>
- [5] [https://docs.google.com/spreadsheets/d/e/2PACX-1vS4d5fEFDtKJ5lJeJs\\_pmzZJCZO1zkgfM4frToa2GoU0Q8OKYTEUXr9P-l0xiNdQwH24DFT\\_SiURP0zv/pubhtml](https://docs.google.com/spreadsheets/d/e/2PACX-1vS4d5fEFDtKJ5lJeJs_pmzZJCZO1zkgfM4frToa2GoU0Q8OKYTEUXr9P-l0xiNdQwH24DFT_SiURP0zv/pubhtml)
- [6] <mailto:ksinger@boulder.swri.edu>
- [7] <mailto:yvonne.pendleton@nasa.gov>
- [8] <https://dps.aas.org/history/dps-history>
- [9] <mailto:fachreddin.tabataba-vakili@jpl.nasa.gov>
- [10] <mailto:Glenn.S.Orton@jpl.nasa.gov>
- [11] <http://www.lsstssc.org/>
- [12] <https://goo.gl/forms/1RoZLOVQ9cbtQbU33>
- [13] <https://dps.aas.org/education/trick-or-treat-and-telescopes>
- [14] <https://cresst2.umd.edu/opportunities/researchopp.html>
- [15] <mailto:Barbara.A.Cohen@nasa.gov>
- [16] <mailto:exppd@asu.edu>
- [17] <http://sese.asu.edu/exploration-fellowship>
- [18] <https://sese.asu.edu/>
- [19] <https://cfo.asu.edu/postdoctoral-scholars>
- [20] <http://employment.wvu.edu/cw/en-us/job/496058>
- [21] <http://nhfp.stsci.edu/>
- [22] <mailto:dpssec@aaas.org>
- [23] <mailto:privacy@aaas.org>
- [24] <https://aaas.org/about/policies/privacy-policy>