



November 2017 Newsletter

Upcoming Deadlines & Events:

Upcoming Deadlines

- November 15: AGU [Fall Meeting Housing](#) Deadline
- November 15: Abstract deadline for [Women in Planetary Science and Exploration Conference](#)
- November 30: Abstract deadline for [From Mars Express to ExoMars](#)
- January 9, 2018: Abstract deadline for [49th Lunar and Planetary Science Conference](#)
- February 9, 2018: Abstract deadline for [42nd COSPAR Scientific Assembly](#)
- February 15, 2018: Abstract deadline for [Mercury: Current and Future Science of the Innermost Planet Meeting](#)

Upcoming Conferences

- **December 11-15: [2017 AGU Fall Meeting, New Orleans, LA](#)**
- November 12-13: [Joint ISAS-LPL Workshop on Planetary Science Enabled by Epsilon Class Missions](#), Tucson, AZ
- November 13-17: [Habitable Worlds 2017](#), Laramie, WY
- November 14-16: [VEXAG Annual Meeting](#), Laurel, MD
- November 26-December 1: [IAU Astrobiology 2017 Conference](#), Coyhaique, Chile
- January 10-12, 2018: [Lunar Science for Landed Missions Workshop](#), Moffett Field, CA
- February 17-18, 2018: [Women in Planetary Science and Exploration Conference](#), Toronto, Canada
- February 21-22, 2018: [Outer Planets Assessment Group \(OPAG\) Meeting](#), Hampton, VA
- February 27-28, 2018: [From Mars Express to ExoMars](#), Madrid, Spain
- March 18, 2018: [Planetary Science Deep Space SmallSat Studies Workshop](#), The Woodlands, TX
- March 19-23, 2018: [49th Lunar and Planetary Science Conference](#), The Woodlands, TX
- May 1-3, 2018: [Mercury: Current and Future Science of the Innermost Planet Meeting](#), Columbia, MD

- June 5-7, 2018: [Cryovolcanism in the Solar System](#), Houston, TX
- July 14-22, 2018: [42nd COSPAR Scientific Assembly](#), Pasadena, CA

Executive Announcements:

- **Fall Meeting Housing and Registration are Now Open**

You can now reserve housing via AGU's Housing Bureau. Hotels sell out quickly, so book early to reserve your preferred accommodation. Book housing at <http://fallmeeting.agu.org/2017/housing/>. And *remember*, AGU members receive up to \$145 in additional discounts. If you haven't already registered for the conference, register at <http://fallmeeting.agu.org/2017/registration/>

- **Joint Section and Focus Groups Mardi Gras Reception**

At the Fall Meeting, Tuesday, December 12, 7:00–8:30 P.M.

The Planetary Sciences section will enjoy an evening where magic is made! Surrounded by brilliantly lit floats and props, Fall Meeting participants can walk the red carpet, meet new friends, and network Mardi Gras style!

With its towering columns, magical footbridges, magnificent oak trees, and a starlit sky all adding to the sense of wonder, the Grand Oaks Mansion gives visitors a magical Louisiana experience. Come join the rest of your Planetary Sciences colleagues, and thousands of participants from other sections at this fabulous Mardi Gras Reception.

A \$15 ticket is required, which can be purchased when you register for the Fall Meeting. Light refreshments will be provided.

- **Register as a Planetary Sciences OSPA Judge at the Fall Meeting**

If you have not already indicated a willingness to serve as an OSPA (Outstanding Student Paper Award) judge at the Fall Meeting, please consider volunteering as little as 15 minutes of your time to evaluate the oral or poster presentation of a student attendee at the Fall Meeting. Constructive feedback to student participants serves to improve the quality of a student's scientific research, and makes the Fall Meeting a more engaging and formative event in a student's development.

Making a difference can truly take as little as 15 minutes. Please help your Planetary Sciences community by registering as a judge [here](#).

- **ESSOAr – A New Earth and Space Science Server for preprints and conference presentations**

AGU is developing a server for the international Earth and space science community to accelerate the open dissemination of Earth and space science preprints and rich

conference presentations with an advisory board of other international Earth and space sciences societies. Sign up for updates at www.essoar.org

- **AGU approaches its Centennial**

In 2019 AGU will celebrate its Centennial and will focus on worldwide events and programming that recognizes the value and contributions of Earth and space science over the last century and how the science will continue to add value in everyday life in the future. As we approach this milestone, AGU wants to reflect on the past 100 years of achievement and discovery and look forward to the impacts to come. We're excited to announce that the oral history group Story Corps will be at the Fall Meeting to help us record and capture the scientific and personal stories of our sciences. The nonprofit podcast focuses on stories about humanity, and they are coming to the meeting to help tell your stories! If you know of a personal story that should be shared, we want to hear about it. Nominate someone today by visiting centennial.agu.org/.

Planetary Science Notices

- **Cornell Center for Astrophysics and Planetary Sciences Research Support Specialist II**

DEPARTMENT MISSION AND BACKGROUND INFORMATION:

Cornell is a private Ivy League university and the land grant university for New York State. Cornell Center for Astrophysics and Planetary Science's mission is to discover, preserve, & disseminate knowledge, produce creative works, and promote culture within these sciences throughout the Cornell community. The center also aims, through public outreach, to enhance the lives and livelihoods of our students, the people of New York, and others around the world.

The Cornell Center for Astrophysics and Planetary Science seeks candidates to fill our Research Support Specialist II position. The position is responsible for support of the design, construction, and use of state-of-the-art submillimeter spectrometers for use in astronomy at major observatories. The person is responsible for the design, construction, troubleshooting and repair of cryogenic, mechanical, and electrical systems, management of laboratory activities and observing runs, and the supervision of certain laboratory activities.

The successful candidate must demonstrate the following skills:

1. Experience with cryogenics and low temperature refrigerators, including liquid helium and nitrogen cryostats, ³He refrigerators, and adiabatic demagnetization refrigerators (ADRs). Familiarity with the properties and uses of mechanical/structural and electrical properties of materials at low temperatures.
2. Computerized engineering skills (computer aided design [CAD], and finite element analysis [FEA]) and their applications to cryogenic and vacuum vessels, devices for mounting optics and large mass instrumentation to telescopes in the field, and subcomponents of telescopes.

3. Management/logistics skills, including the development and maintenance of group activity schedules, and the ability to coordinate the logistics involved in shipping large research instruments to places as diverse as the South Pole and Mauna Kea.
4. Laboratory software skills including familiarity with the LabVIEW environment, and ability to interface basic instrumentation.
5. Basic laboratory electronic skills including soldering, wire-wrapping, and bread-boarding of basic circuits.
6. Machinist and assembly skills, including the ability to machine complex subcomponents of large instruments, and make repairs to our instruments both at Cornell University and in field laboratories

Finally, the position will include possible supervision of one to three undergraduate assistants. Questions may be directed to Lynda Sovocool, Finance and Human Resource Manager, lmk3@cornell.edu.

Applicants may apply at:

https://cornell.wd1.myworkdayjobs.com/en-US/CornellCareerPage/job/Ithaca-Main-Campus/Research-Support-Specialist-II_WDR-00012890

- **Women in Planetary Science and Exploration Conference**

WPSE 2018 is an opportunity for scientists and engineers to showcase their recent findings in the field of planetary science and exploration. The event highlights the achievements of women and non-binary researchers, while offering an opportunity to discuss, challenge, network, and support their peers.

WPSE 2018 will be held February 17-18, 2018 at the University of Toronto

Abstract Deadline EXTENDED to November 22nd.

Website: www.wpse2018.ca #WPSE2018

For questions or information, please contact [Tanya Harrison](#)

- **Outer Planets Assessment Group Meeting**

The next Outer Planets Assessment Group (OPAG) meeting will be February 21-22 in Hampton, VA, with a technology forum on February 23.

See <https://www.lpi.usra.edu/opag/> for additional information

- **PhD Studentships, Post-Doctoral and Research Scientist Positions Available at the Institute of Space Sciences, Shandong University, China**

We cordially invite applications for PhD studentships, postdoctoral and research scientist positions at the Institute of Space Sciences (ISS), Shandong University. We expect to offer ~3 fully-funded PhD studentships, ~4 postdoctoral positions, and ~2 (visiting) research scientist positions.

The applicants are expected to work with:

1. Prof. Yao Chen (yaochen@sdu.edu.cn) on physical mechanisms of particle acceleration and radio bursts during solar eruption, and synthesis techniques in radio interferometric imagery.
2. Prof. Quanqi Shi (sqq@sdu.edu.cn) on magnetospheric physics and solar wind–magnetosphere interaction. Of primary interests are the solar wind mass and energy transport into the magnetosphere and related processes.
3. Prof. Qinghe Zhang (zhangqinghe@sdu.edu.cn) on the physics of dynamical processes in the magnetosphere-ionosphere coupling and the ionosphere. Of particular interests are the origin and evolution of ionospheric irregularities, and ionospheric responses to space-weather events.
4. Prof. Lidong Xia (XLD@sdu.edu.cn) on multi-wavelength observational studies of small-scale dynamic events in the solar atmosphere relating to the coronal heating and the source region of the solar wind, and the development of coronagraph technology.
5. Prof. Bo Li (bbl@sdu.edu.cn) on collective waves in magnetized structures on the Sun. The applicants are expected to have experience in analytical or numerical studies in the broad field of coronal seismology (or solar magneto-seismology).
6. Prof. Zongcheng Ling (zcling@sdu.edu.cn) on spectral, geochemical, and mineralogical properties of planetary materials, planetary igneous and alteration processes, lunar and martian meteorites.

For detailed information on our overseas PhD program, please visit <http://iss.wh.sdu.edu.cn/> or directly contact the supervisor you plan to work with. The postdoctoral posts are available for a fixed term of 1 year with a possible extension of up to 3 years, depending on research performance and funding availability. The position can start as early as 1 December 2017. The annual salary will be \$30,000 to \$35,000 US dollars, commensurate with qualification and experience.

Research scientist appointments are for 3 years, with possible extension, depending on research performance and funding availability. The annual salary is from \$35,000 to \$50,000 US dollars depending on qualification and experience. The post-holders should pursue independent research in close collaboration with the ISS faculty members.

The applicants of the postdoctoral and research scientist positions are expected to have demonstrated expertise in carrying out original research in solar and space physics, space weather sciences, and planetary science.

ISS is located in the scenic coastal city of Weihai, which, with its considerably low living cost and wonderful beaches, is regarded as one of the nation's most desirable cities.

ISS can help arrange temporary or long-term accommodation, which is fully furnished and in easy reach of shopping plazas, restaurants, the university campus, and the beautiful Weihai International Beach. Rent and utilities shall be paid by the post-holders.

Applications will be considered from 1 December 2017 onwards. Candidates should submit, electronically, a CV, a cover letter describing their research experience and interests, as well as names and contact details of two potential referees, to one of the above prospective collaborators (please also copy to yaochen.sdu@gmail.com). Please visit the webpage (<http://iss.wh.sdu.edu.cn>) for more information.

- **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. 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.

FYIs

- **PUBLISH YOUR NOTICE IN THE AGU PLANETARY SCIENCES NEWSLETTER**

With a membership of over 6500 planetary scientists worldwide, your announcements and notices in the AGU Planetary Sciences newsletter will reach a wide range of professionals and students in precisely the areas in which you should advertise. If you have any job postings, conference announcements or other planetary-related material, please send it to michael.a.mischna@jpl.nasa.gov to be included in a future newsletter.