



January 2018 Newsletter

Upcoming Deadlines & Events:

Upcoming Deadlines

- January 9, 2018: Abstract deadline for [49th Lunar and Planetary Science Conference](#)
- January 10, 2018: Abstract deadline for [European Geosciences Union General Assembly](#)
- January 19, 2018: Abstract deadline for [15th Asia Oceania Geosciences Society](#)
- January 25, 2018: Abstract deadline for [2nd International Mars Sample Return 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](#)
- March 7, 2018: Abstract deadline for [Ocean Worlds 3: Water-Silicate Interactions](#)
- April 4, 2018: Abstract deadline for [Mars Workshop on Amazonian and Present Day Climate](#)
- April 5, 2018: Abstract deadline for [Cryovolcanism in the Solar System](#)

Upcoming Conferences

- January 10-12, 2018: [Lunar Science for Landed Missions Workshop](#), Moffett Field, CA
- January 17-18, 2018: [18th Small Bodies Assessment Group \(SBAG\) Meeting](#), 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
- February 27-March 1, 2018: [Deep Space Gateway Science Workshop](#), Denver, CO
- 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

- April 3-5, 2018: [Mars Exploration Program Analysis Group \(MEPAG\) Meeting](#), Washington, DC
- April 8-13, 2018: [European Geosciences Union General Assembly](#), Vienna, Austria
- April 12-13, 2018: [Southeastern Sectional Meeting of the Geological Society of America](#), Knoxville, TN
- April 25-27, 2018: [2nd International Mars Sample Return Conference](#), Berlin, Germany
- May 1-3, 2018: [Mercury: Current and Future Science of the Innermost Planet Meeting](#), Columbia, MD
- May 21-24, 2018: [Ocean Worlds 3: Water-Silicate Interactions](#), Houston, TX
- June 3-8, 2018: [15th Asia Oceania Geosciences Society](#), Honolulu, HI
- June 5-7, 2018: [Cryovolcanism in the Solar System](#), Houston, TX
- June 18-22, 2018: [Mars Workshop on Amazonian and Present Day Climate](#), Lakewood, CO
- July 14-22, 2018: [42nd COSPAR Scientific Assembly](#), Pasadena, CA
- August 27-30, 2018: [3rd Comparative Climatology of Terrestrial Planets](#), Houston, TX

Executive Announcements:

- **PLANETARY SCIENCE SECTION LEADERSHIP OPPORTUNITIES**

The Planetary Sciences section is looking to expand the number of volunteers who help to lead and operate the various section activities throughout the year. If you are interested in serving your research community, and the AGU, please submit a notice of interest to the section Secretary, Michael Mischna, at michael.a.mischna@jpl.nasa.gov with the following information:

- Name
- Job and Employer
- The position(s) you are interested in from the list below
- A brief outline explaining your interest in the positions selected.

The positions will remain open until filled.

- **Fall Meeting Program Committee Member**

In this position, you will be responsible for planning the Planetary Sciences activities for the AGU Fall Meeting. This includes approving and merging sessions submitted by the community, determining poster vs. oral sessions, identifying special session formats, approving sessions for the Union schedule, all while ensuring diversity across disciplines and remaining within the Planetary Science section session allocation. It further involves organizing the final schedule of sessions for the Fall Meeting, and arranging other relevant Town Hall and prize lectures. Regular interaction with session conveners and chairs leading up to the Fall Meeting is likely. Your obligation includes ~20-30 hours over the course of the year, plus three days each in May and September to participate in Fall Meeting Program Committee activities. You will work in a team of three Planetary Science members, including

the section Secretary, for a term of 2-3 years. It is anticipated that at least a portion, if not all, of your AGU Fall Meeting registration will be compensated for your involvement.

- **Outstanding Student Paper Awards Coordinator**

In this position, you will be responsible for organizing the Outstanding Student Paper Awards (OSPA) activities for the section, including working with session liaisons to recruit judges, and encouraging section members to register as judges and submit scores. Regular emails should go out to the section and registered judges reminding them of their upcoming activities, and seeking 100% coverage of all student papers. You will also be responsible for choosing the section's OSPA winners. You will work alongside one other coordinator in this role, along with the section Secretary, with a term of 2 years. Your time commitment will be ~20-30 hours over the course of the year, largely between the months of October and January. It is anticipated that a portion of your AGU Fall Meeting registration will be compensated for your involvement.

- **Planetary Sciences Honors and Recognition Committee**

In this position, for which one must already be an AGU Fellow, you will be responsible for reviewing nominations for the Planetary Science section prizes (including the Whipple Award and Greeley Award) and selecting, along with the Executive Board, the award winners. You will also be responsible for reviewing all Planetary Science nominations for AGU Fellows, making a recommendation to the AGU Honors and Recognition Committee. You will work in a team of ~7 on the committee, with a term of 3 years. Your time commitment will be ~20-30 hours over the course of the year, largely between the months of March and June.

- **Planetary Sciences Nominations Committee**

In this role, you will actively seek out nominees for Executive Committee positions (including, but not limited to President-Elect, Secretary, Student Representative). Your responsibilities will be to identify no more than two candidates for each position from all submitted nominations to run in the section election. You will also be tasked with identifying candidates and soliciting nominations for the two Planetary Sciences section awards (the Whipple and Greeley awards). Much of your responsibility will be reaching out to the community and encouraging them to prepare nomination packages on behalf of worthy colleagues. The committee will be made up of four members, with terms varying from 2-4 years. Your time commitment is variable, but will likely be ~15-20 hours over the course of the year, primarily between the months of January and March.

- **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 WORKFORCE SURVEY**

As a community, we have little information about planetary science as a profession. There may be ten to twenty universities producing PhDs in planetary science – but we have traditionally had no fundamental data such as the number of PhDs in planetary science produced each year and the types of career paths the PhDs typically take. The objective of a 2011 survey (<http://lasp.colorado.edu/home/mop/resources/planetary-science-workforce-survey/>) was to fill the data void by gathering statistics on professional planetary science (estimated to be about 2000 people) and provide the analysis of these data to NASA's Planetary Science Division, the DPS, AGU and the Meteoritical Society. Individual planetary scientists were contacted to examine career paths, and departments and programs that award degrees in planetary science were asked to establish basic facts on the pipeline in planetary science.

The Division for Planetary Sciences of the American Astronomical Society will be working with NASA and the American Institute of Physics on a follow-up survey which is anticipated to be completed in mid-2018. Members of the Planetary Sciences section of the AGU may be contacted to participate, and your involvement is encouraged.

Planetary Science Notices

- **PROGRAM SCIENTIST JOB OPENINGS AT NASA HEADQUARTERS**

NASA is looking for experienced scientists to join the staff as Program Scientists in the Astrophysics, Earth Science, Heliophysics, and Planetary Science divisions of the Science Mission Directorate at NASA Headquarters, Washington, DC.

A program scientist:

- Performs a range of scientific program planning duties. Takes responsibility for the science content of flight mission programs or projects to carry out Science Mission Directorate (SMD) investigations. Develops, reviews, and provides recommendations for proposed program requirements, expected results, and budgetary estimates. Establishes methods and procedures to reduce program costs. Provides expert advice to management on strategic planning and program development. Presents issues and proposes solutions to NASA senior management.
- Manages research elements within a broad Research and Analysis (R&A) Program. Develops solicitations and evaluate research proposals. Initiates and monitors research contracts, grants, and cooperative agreements. Provides

technical decisions, advice, and consultations affecting the planning, management, coordination, and critical problems related to safety, costs, and economics of Division Programs. Provides advice on measurement and instrumentation related to space science investigations. Establishes validity criteria for studies.

- Represents scientific disciplines to NASA senior management and serves as an advocate for the communities' scientific interest.

These positions are being filled at the GS/14-15 level (salary range \$112,021 - \$161,900).

Applications will be accepted only through USAJobs.gov.

Schedule: Open January 2, 2018, to February 2, 2018.

For current Federal employees:

NASA Announcement Number HQ18C0015

<http://www.usajobs.gov/GetJob/ViewDetails/487663600>

For US citizens and US nationals:

NASA Announcement Number HQ18D0004

<http://www.usajobs.gov/GetJob/ViewDetails/487663800>

Interested scientists should familiarize themselves with USAJobs.gov and develop their resume and application within the USAJobs.gov system

To apply, see <http://www.USAJobs.gov> .

- **GEOPHYSICAL PLANET DEFINITION (GPD) USERS PAGE**

The Geophysical Planet Definition (or GPD) can be stated as "A planet is a sub-stellar mass body that has never undergone nuclear fusion and that has enough gravitation to be round due to hydrostatic equilibrium regardless of its orbital parameters."

We are sampling community usage in GPD. Specifically, we want to know if you as a planetary scientist think that the GPD is a useful planet definition (recognizing that another planet definition may also be useful to you). To that end we've developed a form at:

http://bit.ly/GPD_list

for those who find GPD a handy definition and who want to help us gauge that interest.

Signed:

Will Grundy

Tod Lauer

Phil Metzger

Kirby Runyon
Kelsi Singer
Alan Stern
Mark Sykes

- **ASSISTANT PROFESSOR IN GEOLOGICAL SCIENCES AT THE UNIVERSITY OF MISSOURI**

The Department of Geological Sciences at the University of Missouri invites applications for a tenure-track position at the rank of Assistant Professor, with an anticipated Fall 2018 start. A Ph.D. in Geological Sciences or a related area is required. Successful applicants should have a demonstrated potential to conduct independent research, and effectively teach students across the curriculum at the graduate and undergraduate levels. We aim to recruit a faculty member with potential for scholarly excellence in one or more of the areas of mineralogy, petrology, structural geology, and tectonics.

The successful candidate will build on existing strengths in geochemistry and petrology, geophysics, and paleobiology. Our Department occupies a building dedicated to Geological Sciences, and houses analytical facilities [<https://geology.missouri.edu/research-facilities>] including a new X-ray Computed Tomography and Scanning Electron Microscopy laboratory, experimental petrology laboratories, and a high-performance computing cluster. Elsewhere on campus is a wide variety of geochemical instrumentation at the MU Research Reactor [<http://murr.missouri.edu>] and at other research core facilities [<https://research.missouri.edu/about/cores>].

Columbia, Missouri, is ranked among the top ten college towns in the U.S. As Missouri's largest public research university, MU has an enrollment of 30,000 students, and is a member of the Association of American Universities. The University of Missouri and the Department of Geological Sciences are fully committed to achieving the goal of a diverse and inclusive academic community of faculty, staff, and students. We seek individuals who are committed to this goal and our core campus values of respect, responsibility, discovery and excellence. The University of Missouri is an Equal Opportunity/Access/Affirmative Action/Pro Disabled & Veteran Employer.

Please apply on line at: <http://hrs.missouri.edu/find-a-job/academic>. Use the online application to upload (a) a letter of application that describes your teaching and research experience; (b) a CV; (c) a statement describing research and teaching interests, and plans of how to attract students to the geological sciences, including those students who traditionally have been underrepresented. Three reference letters are required and should be sent (electronically or hard copy) to the Chair of the Search Committee. Applicants may contact the Chair of the Search Committee (SheltonKL@missouri.edu) with any questions about the job duties. Contact Human Resource Services (muhrs@missouri.edu) for any questions about the application process. To request ADA accommodations, please contact the Office of Accessibility & ADA Education at 573-884-7278 or CheekA@missouri.edu.

Review of application materials will begin January 15, 2018. To ensure full consideration, applications should be complete (including reference letters) by this date. The position will remain open until filled.

The University of Missouri is an Equal Opportunity/Access/Affirmative Action/Pro Disabled & Veteran Employer.

- **GEOSCIENCES SPECIAL ISSUE RECENT ADVANCES IN LUNAR STUDIES**

Dear Colleagues,

The journal Geosciences is accepting papers for a Special Issue related to recent advances in studies of the Moon. Since the Apollo era, sample studies, remote analyses, and dynamical models continue to tease out details related to the Moon's formation and evolution. Additionally, the international lunar science community is eager to continue its presence on the Moon, as evidenced by recent, upcoming, and future lunar missions. All of these topics are of great interest to the broader geoscience community.

The Special Issue welcomes papers that describe studies related to any of the above topics and will be an outlet for rapid, accessible, and peer-reviewed publications. The editors especially welcome papers from young investigators.

Additional details are available at:

http://www.mdpi.com/journal/geosciences/special_issues/lunar_studies

Dr. Nicolle E. B. Zellner

Dr. Karen R. S. Cahill

Guest Editors

- **10TH INTERNATIONAL SUMMER SCHOOL ON RADAR/SAR SYSTEMS**

Date: 13-20 July 2018

Location: near Bonn at Haus Humboldtstein

Website for more info: <https://www.radarsummerschool.fraunhofer.de/>

Poster: http://workshops.fhr.fraunhofer.de/summerschool/bilder/SummerSchool_Poster.pdf

Flyer: http://workshops.fhr.fraunhofer.de/summerschool/bilder/SummerSchool_Flyer.pdf

Registration is already open until mid of March!

Specific queries regarding the summer school should be addressed to: summerschool@fhr.fraunhofer.de or to [Matthias Weiss](#).

- **5TH INTERNATIONAL WORKSHOP ON COMPRESSED SENSING APPLIED TO RADAR, MULTIMODAL SENSING, AND IMAGING, 2018**

Date: 10-13 September 2018

Location: Siegen, Germany

Website: <https://workshops.fhr.fraunhofer.de/cosera/>

Poster: https://workshops.fhr.fraunhofer.de/cosera/bilder/Broschuere_11_10_17.pdf

Deadline for Abstracts: 30 April 2018

- **SAVE THE DATE FOR—NASA'S 3RD COMPARATIVE CLIMATOLOGY OF TERRESTRIAL PLANETS: FROM STARS TO SURFACES (CCTP-3)**

DATES: August 27-30, 2018

LOCATION: LPI, Houston, TX

WEBSITE: <https://www.hou.usra.edu/meetings/climatology2018/>

NASA's 3rd Comparative Climatology of Terrestrial Planets: From Stars to Surfaces (CCTP-3) conference will promote cross-disciplinary conversation on climate processes at work on terrestrial planets both within our solar system and in extrasolar systems. The conference will synthesize present and past research in terrestrial climate science including solar/stellar influences. Also, it will provide a multidisciplinary forum for the identification of future research needs and missions. CCTP-3 will continue the dialogue and interactions started at the two previous conferences, CCTP-1 and CCTP-2. Scientists from all aspects of climatic processes research - including planetary science, heliophysics, Earth science, and exoplanet astronomy - are encouraged by NASA's Science Mission Directorate (SMD) to participate in and contribute to this conference.

- **PLANETARY SESSIONS AND FIELD TRIP AT 2018 GSA SOUTHEASTERN SECTIONAL MEETING**

The 2018 Southeastern Sectional meeting of the Geological Society of America includes two planetary-themed sessions, a post-meeting field trip, and many opportunities for students and professionals. The section meeting will be held April 12th and 13th, in Knoxville, Tennessee, USA. The University of Tennessee's Department of Earth and Planetary Sciences looks forward to hosting all.

Conference information, including abstract submission, registration, activities, may be found at the conference website: <https://www.geosociety.org/se-mtg>

Themed Sessions:

T14. Geologic Mapping from the Appalachians to the Planets: we seek abstracts that focus on the variety of techniques, data sets, and findings from terrestrial and planetary geologic mapping. This themed session bringing together terrestrial and planetary geoscientists offers a unique opportunity to share our diverse knowledge and skills, and an opportunity to create new collaborative efforts.

T15. Planetary Surface Processes: we welcome abstracts about planetary surfaces and the geomorphologic processes that shape them (e.g., aeolian, fluvial, impact, lacustrine, mass wasting, space weathering, tectonic, volcanic). Planetary data analyses, laboratory experiments and/or modeling relevant to planetary geomorphology, and investigations into terrestrial analogs are all welcome.

Abstracts are due January 16th, 2018

Post-meeting Field Trip:

Revisiting the Flynn Creek Impact Structure, Jackson County Tennessee.
Principal organizer: Steven J. Jaret, Stony Brook University; co-organizer:
David T. King, Jr., Auburn University.

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.