

## Newsletter 19-48

Issue 19-48, October 20, 2019

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### 2020 IN SITU SCIENCE AND INSTRUMENTATION FOR EXPLORATION OF EUROPA AND OCEAN WORLDS WORKSHOP - INDICATION OF INTEREST

Dates of workshop: 2 days within April 28-30

Location: JPL, Pasadena, CA

The Europa Lander Mission Concept team invites you to join us for a workshop open to all scientists and engineers interested in science and instrument concepts for the in situ (landed) exploration of Europa and other ocean worlds. It will be an extended, in depth version of the previous workshop held at AbSciCon 2019, with opportunities to have focused discussions and interactions on topics of interest to the Europa and other ocean worlds in situ exploration community. Most of the workshop will be in the Von Karman auditorium at JPL, and we are looking into providing tours to see some of the hardware and lab facilities at JPL.

The workshop is open to all and there will be no registration fee. For planning

purposes (reserving rooms at JPL, arranging hotel accommodations, etc.) we need to scope interest in the workshop. Please indicate your interest by filling out the form below (including JPL employees). Registration for the workshop will open later this year, and there will be opportunities to sign up for contributed talks and posters.

Indication of Interest form:

<https://docs.google.com/forms/d/e/1FAIpQLSchYCToqZBZSONG-AOJr9OYp07G5EOBRo8rWg4GjTiB5iMhm/g/viewform> [1]

Thanks,

Cynthia Phillips

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**CALL FOR IAG GRANTS - 7TH INTERNATIONAL CONFERENCE ON MARS POLAR SCIENCE AND EXPLORATION**

I'm pleased to announce that the International Association of Geomorphologists offers 2 grants of 500 euros to favour the participation of Young Geomorphologists in the 7th International Conference on Mars Polar Science and Exploration.

The call is available at the following link:

<http://www.geomorph.org/2019/10/call-grants-7th-international-conference-mars-polar-science-exploration/> [2]

Kindest regards,  
Marta Della Seta  
IAG Training Officer

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**TRICK-OR-TREAT AND TELESCOPES**

DPS is continuing its Trick-or-Treat and Telescopes Program. Put out your telescopes

during trick-or-treat time on Halloween, in your own lawn or in a neighbor's lawn (with permission) with better viewing (or more traffic). There is good viewing this year: a crescent setting Moon with Jupiter right next door and Saturn nearby. The following websites give advice and connections to resources. If you have any pictures of your event, please send them to [bonnie.buratti@jpl.nasa.gov](mailto:bonnie.buratti@jpl.nasa.gov)

<https://dps.aas.org/education/trick-or-treat-and-telescopes> [3]

<https://earthsky.org/tonight/moon-goes-by-jupiter-on-halloween> [4]

I received this wonderful note from Jane Bergstralh, the late Jay Bergstralh's wife:

"Jay used to set up his telescope, don his tall pointed hat and cape, and let the neighborhood children each have a turn. They loved it, and it became a very popular Halloween tradition.

A better treat than mere candy."

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#### CALL FOR VEXAG STEERING COMMITTEE MEMBERS

VEXAG (Venus Exploration Analysis Group) is seeking two new volunteers for the VEXAG Steering Committee to replace the Roadmap Focus Group Lead and Member at Large, who have successfully completed their service to the Venus community. New members will start in January 2020 for terms that will run for three years.

Nominations and self-nominations are welcome, and will need a short statement of interest and vision for Venus, and a CV. Please submit these to Darby Dyar and Noam Izenberg, VEXAG Chair and Deputy Chair, at [mdyar@mtholyoke.edu](mailto:mdyar@mtholyoke.edu) [5], [Noam.Izenberg@jhuapl.edu](mailto:Noam.Izenberg@jhuapl.edu) [6]; no later than Friday, November 15. We will review applicants following the 17th VEXAG meeting (November 6-8 in Boulder, CO) and extend invitations around the new year.

In addition to sponsoring regular and topical meetings, VEXAG activities for the next three years are expected to focus on preparing White Papers for the next Decadal Survey, and implementing the outcome of the Decadal Survey. VEXAG is committed to fostering the next generation of Venus researchers and participation in Early Career Venus Scholars Focus Group is always welcome.

<http://www.lpi.usra.edu/vexag/> [7]

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LUNAR AND PLANETARY INSTITUTE SUMMER INTERNSHIP APPLICATIONS OPEN

The Lunar and Planetary Institute (LPI) Summer Intern Program in Planetary Science provides undergraduate students with an opportunity to perform cutting-edge, peer-reviewed research, learn from widely respected planetary scientists, and discover exciting careers in planetary science.

The LPI invites undergraduates with at least 50 semester hours of credit to participate in cutting-edge research in the lunar and planetary sciences as a summer intern. The LPI Intern Program application deadline is January 6, 2020.

The 10-week program begins June 1, 2020 and ends August 7, 2020. Selected students will receive a \$6300.00 stipend; in addition, U.S. students receive a \$1000.00 travel stipend and foreign nationals receive a \$1500.00 foreign travel reimbursement.

<https://www.lpi.usra.edu/lpiintern/> [8]

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JOBS, POSITIONS, OPPORTUNITIES

A) TENURE-TRACK ASSISTANT PROFESSOR IN PLANETARY SCIENCE,  
UNIVERSITY OF WASHINGTON, SEATTLE

The University of Washington seeks an outstanding scientist working at the forefront of planetary research in surfaces, atmospheres, or interiors of planets, exoplanets, or moons. The opening is for a tenure-track Assistant



Professor in the Department of Earth & Space Sciences.

The new faculty member will be specialized in one or more of the following: geology, geomorphology, geochemistry, glaciology, or geophysics of planets and interactions with their atmospheres and oceans. They may focus on observations, experiments, and/or modeling. We seek a colleague who can contribute collaboratively within the department, college, and across campus, for example, the university's Astrobiology Program. Current or potential involvement in planetary exploration and/or use of remote sensing data is desirable but not essential.

Candidates should demonstrate the potential to build an internationally recognized research program that addresses questions of fundamental significance. Candidates should also show potential for high quality undergraduate and graduate teaching. Applicants must hold a Ph.D. or foreign equivalent in Geophysics, Geology, Planetary Sciences, or a related field at the time of appointment.

Preference will be given to applications received before December 1, 2019.

For full applications details, please see: <https://apply.interfolio.com/69115> [9]

## B) TENURE-STREAM POSITION IN ASTRONOMY AT MICHIGAN STATE UNIVERSITY (MSU)

The Department of Physics and Astronomy at Michigan State University (MSU) invites applications for a tenure-system faculty position in astronomy. The search is open to all fields of observational, data-intensive, or survey astronomy. The successful candidate will have demonstrated the ability to carry out forefront research and a commitment to building an equitable and diverse scholarly environment.



While we expect the appointment to be at the assistant professor level, an appointment at the level of associate or full professor will be considered depending on the experience of the candidate.

MSU has strong astrophysics research programs in compact objects, nuclear astrophysics, galaxy clusters, large-scale simulations, statistical and computational techniques, and particle astrophysics. MSU astronomers enjoy guaranteed access to the 4.1-m SOAR Telescope, which is co-located on Cerro Pachon with the Large Synoptic Survey Telescope. MSU is also the lead institution of the NSF's Joint Institute for Nuclear Astrophysics-Center for the Evolution of the Elements (JINA-CEE). MSU astronomers run both an astrophysics undergraduate major and an astronomy and astrophysics Ph.D. program.

For more information, please see:

<https://astro.natsci.msu.edu/news-events/job-postings/tenure-stream-position-in-astronomy/> [10]

#### C) RESEARCH SPACE SCIENTIST POSITION AT NASA GODDARD SPACE FLIGHT CENTER

The Sciences and Exploration Directorate at NASA Goddard Space Flight Center is currently seeking interested applicants for the position of Research Space Scientist in the Planetary Systems Lab (6930). This position is responsible for design and development of novel infrared and ultraviolet flight instruments for planetary science. For more information on this opportunity please see the ad on the USA Jobs website:

<https://www.usajobs.gov/GetJob/ViewDetails/548052000> [11]

#### D) SPACE PHYSICS FACULTY POSITION AT ARIZONA STATE UNIVERSITY

Arizona State University is now advertising a Space Physics Faculty position joint with the ASU School of Mathematical and Statistical Sciences and the ASU School of Earth and Space Exploration:

<https://sese.asu.edu/about/opportunities/faculty-positions> [12]

#### E) RUTGERS UNIVERSITY - TENURE-TRACK FACULTY MEMBER

The Department of Earth and Planetary Sciences, Rutgers University, New Brunswick, is looking to hire an assistant professor in the broad fields of mineralogy, petrology, geochemistry, and paleobiology, whose work relates to the co-evolution of physical, chemical, and biological systems of the Earth and/or other rocky planetary bodies. Interested applicants must have a Ph.D. at the time of appointment; start date is expected for Fall 2020.

Please see the job ad for more details:

<https://jobs.rutgers.edu/postings/102136> [13]

Direct all inquiries to Kenneth Miller, chair of the search committee, Department of Earth and Planetary Sciences at [kgm@eps.rutgers.edu](mailto:kgm@eps.rutgers.edu) [14]

#### F) POSTDOCTORAL POSITION IN EARLY MARS GEOCHEMISTRY

The Department of Planetology and Habitability at the Centro de Astrobiología (CAB) invites applications for one postdoctoral position to support investigations on the geochemical nature of the early Mars environments. We are seeking enthusiastic and excellent candidates to join a planetary science team funded by the European Research Council (ERC), working with Dr. Alberto Fairen in the Project "MarsFirstWater" (ERC Consolidator Grant) broadening the efforts of the Project "icyMARS" (ERC Starting Grant).

Applicants should have a recent Ph.D. in Geochemistry, and a background in Mars research and Planetary Science.

The position, placed in Madrid, would be for two years, with possible extension to a third year contingent upon satisfactory performance. Benefits include working in a young enthusiastic team at the leading Astrobiology institution in Europe, full social benefits according to the Spanish social care system, and a very competitive salary.

Applicants should send a letter of interest, a curriculum with a list of publications, a brief (maximum two pages) statement of research interests, and a list of three references, no later than December 31 2019, to Alberto Fairen ([agfairen@cab.inta-csic.es](mailto:agfairen@cab.inta-csic.es) [15]).

The starting date is negotiable, but should be no later than March 1, 2020.

#### G) GRADUATE STUDENT OPPORTUNITIES: PLANETARY PETROLOGY AND GEOCHEMISTRY DEPARTMENT OF GEOLOGICAL SCIENCES AT THE UNIVERSITY OF FLORIDA

The Elardo Planetary Geochemistry Group at the University of Florida in Gainesville has opportunities for highly motivated students seeking graduate



degrees with an emphasis in Planetary Petrology and Geochemistry. Potential projects cover a wide range of topics in petrology and geochemistry, with specific opportunities including stable isotopic studies of planetary formation, differentiation, and core formation, and the origin, structure, and evolution of the Moon's mantle. Students would join a group that utilizes experimental petrology in the newly established Experimental Geochemistry Lab, microbeam studies of meteorites and Apollo samples, and non-traditional stable isotope geochemistry to answer questions about these topics. The Department of Geological Sciences at UF is well-equipped with a wide array of instrumentation and resources available for these studies.

PhD and MSc positions (PhD preferred) are available as early as Fall 2020. For more information, please contact Prof. Stephen Elardo ([selardo@ufl.edu](mailto:selardo@ufl.edu) [16]) with a C.V. and a brief description of research interests and experience. More information about the Department of Geological Sciences and the Planetary Geochemistry Group can be found here at <http://geology.ufl.edu/> [17] and <https://www.ufexpet.com/> [18].

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Send submissions to:

Anne Verbiscer, DPS Secretary ([dpssec@aas.org](mailto:dpssec@aas.org) [19])

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To unsubscribe or update your information, please send your request to [privacy@aas.org](mailto:privacy@aas.org) [20]. The more general AAS privacy policy is available online at <https://aas.org/about/policies/privacy-policy> [21]. Current and back issues of the DPS Newsletter can be found at <https://dps.aas.org/newsletters> [22]

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- [2] [https://urldefense.proofpoint.com/v2/url?u=http-3A\\_\\_www.geomorph.org\\_2019\\_10\\_call-2Dgrants-2D7th-2Dinternational-2Dconference-2Dmars-2Dpolar-2Dscience-2Dexploration\\_&am; d=DwMGaQ&am;c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&am;r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&am;m=hK0DdIDz-LkGRq9hu1r7mqO-CNoW\\_IhkYt5aye8htoU&am;s=exgLHsTYo78yFwbq9\\_ftUX4JCQ4VchjSoafdiFCTHFc&am;e=](https://urldefense.proofpoint.com/v2/url?u=http-3A__www.geomorph.org_2019_10_call-2Dgrants-2D7th-2Dinternational-2Dconference-2Dmars-2Dpolar-2Dscience-2Dexploration_&am; d=DwMGaQ&am;c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&am;r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&am;m=hK0DdIDz-LkGRq9hu1r7mqO-CNoW_IhkYt5aye8htoU&am;s=exgLHsTYo78yFwbq9_ftUX4JCQ4VchjSoafdiFCTHFc&am;e=)
- [3] [https://urldefense.proofpoint.com/v2/url?u=https-3A\\_\\_dps.aas.org\\_education\\_trick-2Dor-2Dtreat-2Dand-2Dtelescopes&am; d=DwMGaQ&am;c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&am;r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&am;m=hK0DdIDz-LkGRq9hu1r7mqO-CNoW\\_IhkYt5aye8htoU&am;s=3IU\\_yv7CBECTQ3B1Cm3kiENU5LdVuTobhmdCmNNHs&am;e=](https://urldefense.proofpoint.com/v2/url?u=https-3A__dps.aas.org_education_trick-2Dor-2Dtreat-2Dand-2Dtelescopes&am; d=DwMGaQ&am;c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&am;r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&am;m=hK0DdIDz-LkGRq9hu1r7mqO-CNoW_IhkYt5aye8htoU&am;s=3IU_yv7CBECTQ3B1Cm3kiENU5LdVuTobhmdCmNNHs&am;e=)
- [4] [https://urldefense.proofpoint.com/v2/url?u=https-3A\\_\\_earthsky.org\\_tonight\\_moon-2Dgoes-2Dby-2Djupiter-2Don-2Dhalloween&am; d=DwMGaQ&am;c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&am;r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&am;m=hK0DdIDz-LkGRq9hu1r7mqO-CNoW\\_IhkYt5aye8htoU&am;s=Hp0Hsw0nFgF0nUJCg1uvU6E4LOMQlot5wivuMVcn-m8&am;e=](https://urldefense.proofpoint.com/v2/url?u=https-3A__earthsky.org_tonight_moon-2Dgoes-2Dby-2Djupiter-2Don-2Dhalloween&am; d=DwMGaQ&am;c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&am;r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&am;m=hK0DdIDz-LkGRq9hu1r7mqO-CNoW_IhkYt5aye8htoU&am;s=Hp0Hsw0nFgF0nUJCg1uvU6E4LOMQlot5wivuMVcn-m8&am;e=)
- [5] <mailto:mdyar@mtholyoke.edu>
- [6] <mailto:Noam.Izenberg@jhuapl.edu>
- [7] [https://urldefense.proofpoint.com/v2/url?u=http-3A\\_\\_www.lpi.usra.edu\\_vexag\\_&am; d=DwMGaQ&am;c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&am;r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&am;m=hK0DdIDz-LkGRq9hu1r7mqO-CNoW\\_IhkYt5aye8htoU&am;s=UNaDvdepjD64r6y037CF6EW1VjHwaeljmEy8UT\\_tq64&am;e=](https://urldefense.proofpoint.com/v2/url?u=http-3A__www.lpi.usra.edu_vexag_&am; d=DwMGaQ&am;c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&am;r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&am;m=hK0DdIDz-LkGRq9hu1r7mqO-CNoW_IhkYt5aye8htoU&am;s=UNaDvdepjD64r6y037CF6EW1VjHwaeljmEy8UT_tq64&am;e=)
- [8] [https://urldefense.proofpoint.com/v2/url?u=https-3A\\_\\_www.lpi.usra.edu\\_lpiintern\\_&am; d=DwMGaQ&am;c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&am;r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&am;m=hK0DdIDz-LkGRq9hu1r7mqO-CNoW\\_IhkYt5aye8htoU&am;s=dgr-jjAFv0IxxZ1qpiZxs7sUzKMEEgf0IKhr87XxNFA&am;e=](https://urldefense.proofpoint.com/v2/url?u=https-3A__www.lpi.usra.edu_lpiintern_&am; d=DwMGaQ&am;c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&am;r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&am;m=hK0DdIDz-LkGRq9hu1r7mqO-CNoW_IhkYt5aye8htoU&am;s=dgr-jjAFv0IxxZ1qpiZxs7sUzKMEEgf0IKhr87XxNFA&am;e=)
- [9] [https://urldefense.proofpoint.com/v2/url?u=https-3A\\_\\_apply.interfolio.com\\_69115&am; d=DwMGaQ&am;c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&am;r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&am;m=hK0DdIDz-LkGRq9hu1r7mqO-CNoW\\_IhkYt5aye8htoU&am;s=8Pcv\\_IDR2C-SOaMjJpGnkdZhWf81UyIYYAxy\\_tyTil&am;e=](https://urldefense.proofpoint.com/v2/url?u=https-3A__apply.interfolio.com_69115&am; d=DwMGaQ&am;c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&am;r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&am;m=hK0DdIDz-LkGRq9hu1r7mqO-CNoW_IhkYt5aye8htoU&am;s=8Pcv_IDR2C-SOaMjJpGnkdZhWf81UyIYYAxy_tyTil&am;e=)
- [10] [https://urldefense.proofpoint.com/v2/url?u=https-3A\\_\\_astro.natsci.msu.edu\\_news-2Devents\\_job-2Dpostings\\_tenure-2Dstream-2Dposition-2Din-2Dastronomy\\_&am; d=DwMGaQ&am;c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&am;r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&am;m=hK0DdIDz-LkGRq9hu1r7mqO-CNoW\\_IhkYt5aye8htoU&am;s=RI0\\_kvWJj6N61IUE6PvC0jwH8Pk7MRsNQoRLL2oDW40&am;e=](https://urldefense.proofpoint.com/v2/url?u=https-3A__astro.natsci.msu.edu_news-2Devents_job-2Dpostings_tenure-2Dstream-2Dposition-2Din-2Dastronomy_&am; d=DwMGaQ&am;c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&am;r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&am;m=hK0DdIDz-LkGRq9hu1r7mqO-CNoW_IhkYt5aye8htoU&am;s=RI0_kvWJj6N61IUE6PvC0jwH8Pk7MRsNQoRLL2oDW40&am;e=)
- [11] [https://urldefense.proofpoint.com/v2/url?u=https-3A\\_\\_www.usajobs.gov\\_GetJob\\_ViewDetails\\_54805](https://urldefense.proofpoint.com/v2/url?u=https-3A__www.usajobs.gov_GetJob_ViewDetails_54805)

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