

Newsletter 20-22

Issue 20-22, May 20, 2020

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

1. MESSAGE FROM THE CHAIR: NOTICE REGARDING THE NEXT DPS/EPSC JOINT MEETING
2. REGISTRATION BY MAY 21 REQUIRED FOR PLANETARY MISSION CONCEPT STUDIES (PMCS) WORKSHOP
3. REGISTRATION BY MAY 22 REQUIRED FOR LUNAR SURFACE SCIENCE WORKSHOP
4. SMALL BODIES ASSESSMENT GROUP (SBAG) COMMUNITY SURVEY FOR DECADAL REPORT
5. NASA NEXSS POSTDOCTORAL MANAGEMENT FELLOWSHIP
6. JOBS, POSITIONS, OPPORTUNITIES

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MESSAGE FROM THE CHAIR: NOTICE REGARDING THE NEXT DPS/EPSC JOINT MEETING

In light of the COVID-19 situation, the 2020 EPSC meeting, originally planned for Granada Spain, will be held in a virtual format (<https://www.epsc2020.eu> [1]). To maintain contractual agreements, Europlanet will hold their 2022 meeting in Granada. The 2022 DPS meeting in London Ontario will no longer be a joint DPS-EPSC meeting. We are looking into the possibility of converting the 2023 DPS meeting in San Antonio into a joint meeting with EPSC. We will inform the membership once a decision is made.

We hope that everyone is staying safe and healthy during these trying times, and look forward to meeting again in person.

Amanda Hendrix, DPS Chair

Nigel Mason, Europlanet Society President

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REGISTRATION BY MAY 21 REQUIRED FOR PLANETARY MISSION CONCEPT STUDIES (PMCS) WORKSHOP

The Planetary Mission Concept Studies Workshop previously scheduled for March 15, 2020 at LPSC 51 will now take place virtually on May 26-27, 2020.

If you plan to join, you MUST register by Thursday, May 21, at:

<https://www.hou.usra.edu/meetings/pmcs2020/registration/> [2]

The webcast link and password will ONLY be sent to those who register.

The link to watch/listen will be <https://www.hou.usra.edu/meetings/pmcs2020/> [3]

The agenda can be found at: <https://www.hou.usra.edu/meetings/pmcs2020/format/> [4]

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REGISTRATION BY MAY 22 REQUIRED FOR LUNAR SURFACE SCIENCE WORKSHOP

The NASA-organized Lunar Surface Science Workshop originally scheduled for April 28-30, 2020 in Denver, Colorado has been rescheduled as a virtual event.

The purpose is to discuss new scientific research that could be enabled by human exploration near the lunar south pole. The workshop has been revised to consist of a number of virtual sessions to cover some of the content of the original workshop, followed by a new in-person workshop at a future date. The first virtual session is scheduled for half days on May 28-29, 2020.

The May 28 program will consist of what would have been the initial Overview session.

It will contain presentations from multiple NASA mission directorates and international

space agencies. It will also include some overview talks of both the science value of the Moon, as well as science that can be enabled by human missions to the lunar surface.

The May 29 program will mostly include the content that was originally planned for the Tools and Instruments for Surface Science session. It will cover various aspects of the instruments and tools that will enable EVAs for conducting scientific exploration. This is meant to be a working meeting with a mixture of talks and discussion periods.

A revised program will be available by May 19.

Registration deadline — Friday, May 22, 2020 [Registration](#) [5]

Attendance for May 28 is open to the community. Attendance for May 29 is limited to people who submitted an abstract, or their delegates, and selected invitees.

Registration fees are not being collected for this virtual session, but registration is required to continue receiving e-mail updates, including virtual access information. You will need to register again if you were registered for the originally scheduled April workshop.

<http://www.hou.usra.edu/meetings/lunarsurface2020> [6]

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SMALL BODIES ASSESSMENT GROUP (SBAG) COMMUNITY SURVEY FOR DECADAL REPORT

SBAG has posted a survey that queries the community for opinions on research priorities and missions. Please fill it out BEFORE May 25, 2020. It should take about 10 minutes.

https://www.surveymonkey.com/r/sbag_decadal [7]

Bonnie Buratti, for the SBAG Steering Committee

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NASA NEXSS POSTDOCTORAL MANAGEMENT FELLOWSHIP

The NExSS (Nexus for Exoplanet Systems Science) has a new opportunity for a NASA Postdoctoral Management (NPMP) fellowship. NExSS is an interdisciplinary research network including experts in Earth Science, Planetary Science, Heliophysics, and Astrophysics (<http://nexss.info> [8]). The main goal of NExSS is to apply a “systems science” perspective to the study of exoplanets, so we can study their diversity, histories, and habitability. Teams extrapolate our knowledge of Earth as a planet and the examples provided by the Sun and planets in our Solar System to better understand exoplanets, and vice versa. As a coordinated network, NExSS fosters interdisciplinary, collaborative work and facilitates access to diverse skill sets and a broad knowledge base.

This position will be split equally between research and policy/management work.

The research will be composed of an independent research project led by the postdoctoral fellow, that leverages the NExSS science community. The management work involves interfacing with the NExSS science community in the pursuit of strengthening and expanding that community. Efforts in this area could include: facilitating collaborations; coordinating webinars, workshops, and other virtual meetings; leading or organizing the writing of white papers; improving communication both within and beyond the network, and contributing to the strategies for pursuing the above goals.

The successful candidate will join the NExSS management team. This management team is led by two co-directors, Victoria Meadows (University of Washington) and Dawn Gelino (NExSci/Caltech/JPL). They work with two program managers, Mary Voytek (NASA HQ) and Doug Hudgins (NASA HQ); and a program facilitator, Shawn Domagal-Goldman (NASA GSFC), to enact programs that strengthen the exoplanet and astrobiology communities. Shawn Domagal-Goldman will serve as the

NPMP's host at NASA Goddard Space Flight Center in Greenbelt, MD. We seek creative individuals with leadership skills and a deep interest in strategic planning and collaborative research.

Please see <https://npp.usra.edu/opportunities/details/?ro=19326> [9] for more information.

The deadline for applications is July 1, 2020.

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JOBS, POSITIONS, OPPORTUNITIES

A) POSTDOCTORAL RESEARCHER AND DATA SCIENTIST IN PLANETARY MAGNETOSPHERIC PHYSICS

Applications are now being accepted for two postdoctoral scientists to work with the NASA/Goddard Space Flight Center Planetary Magnetospheres Laboratory in Greenbelt, MD. The positions are funded through CRESST II.

Position 1: The postdoctoral researcher will work for either the Juno project with the primary responsibility of conducting analysis and publishing the magnetometer results. In addition, the candidate will assist with the magnetometer data validation and calibration.

Position 2: The data scientist's primary responsibility will be to develop a data production pipeline for future magnetometer missions. This involves taking raw magnetometer data, applying the appropriate transformations and calibrations, and producing the final public data products. The data scientist is encouraged to pursue their own research interest.

Candidates for these positions should have earned a Ph.D. in physics, astronomy, planetary science, space physics, geosciences, or related fields. Successful candidates should also have expertise with one or more programming languages commonly used in space science and a demonstrated track record in analyzing spaceflight data, especially magnetometer data and experience with the NAIF SPICE software package is highly desired.

Applications received by July 15, 2020, will receive the best consideration. Link to full job posting: <https://jobregister.aas.org/ad/bb0cf722> [10]

B) JET PROPULSION LABORATORY RESEARCH SCIENTIST II – PLANETARY INTERIORS AND GEOPHYSICS

The Jet Propulsion Laboratory invites applications for a Scientist who will bring new expertise to and ensure continuity of existing capabilities at JPL in planetary science.

The successful candidate will develop models for the chemical evolution of Europa,

Enceladus, Titan, Ganymede, and other ocean worlds in support of the Icy Worlds, Titan, and Vital Signs teams. The candidate will investigate the detailed chemical evolution of

Europa's interior and its ice. Perform NASA funded research, including setting up and conducting novel experiments to measure chemical properties and processes applicable to planetary interiors. Investigate the metamorphic evolution of Ceres' rocky mantle and support mission formulation as a subject matter expert on ocean world chemistry.

This position requires the following qualifications:

- Ph.D. in geochemistry, planetary geophysics, or a related field.
- 3-4 years expertise in applying meteoritics, petrology, aqueous geochemistry to problems in astrobiology.

The following qualifications are preferred:

- Knowledge of geophysical forward modeling and inverse theory, high-pressure experimental design and implementation.

Applications are due by May 26, 2020 or until filled and should be submitted at: <https://jpl.jobs/jobs/2020-11799-Research-Scientist-II> [11]

C) JET PROPULSION LABORATORY RESEARCH SCIENTIST II – OCEAN WORLDS

The Jet Propulsion Laboratory invites applications for a Scientist who will bring new expertise to and ensure continuity of existing capabilities at JPL in planetary science.

The successful candidate will develop models for the chemical evolution of Europa,

Enceladus, Titan, Ganymede, and other ocean worlds in support of the Icy Worlds, Titan, and Vital Signs teams. The candidate will investigate the detailed chemical evolution of



Europa's interior and its ice. Perform NASA funded research, including setting up and conducting novel experiments to measure chemical properties and processes applicable to planetary interiors. Investigate the metamorphic evolution of Ceres's rocky mantle and support mission formulation as a subject matter expert on ocean world chemistry.

Qualifications: PhD in geochemistry, planetary geophysics, or a related field. 3-4 years expertise in applying meteoritics, petrology, aqueous geochemistry to problems in astrobiology.

The following qualifications are preferred: Knowledge of geophysical forward modeling and inverse theory, high-pressure experimental design and implementation.

[More Information](#) [11]

Applications received by May 26, 2020 will receive full consideration.

D) JET PROPULSION LABORATORY RESEARCH SCIENTIST III - ASTROBIOLOGY AND OCEAN WORLDS

The Jet Propulsion Laboratory invites applications for a Research Scientist to join the Astrobiology and Ocean Worlds Group within the Planetary Science Section. You will do the following:

- Lead development of instrumentation and/or mission concepts to explore the subsurface of Mars and other habitable environments.
- Write proposals for advancing research and instrument/mission development.

Required Qualifications:

- Ph.D. degree in Earth or Planetary Sciences or related scientific or technical discipline.
- Demonstrated working knowledge at the forefront in the fields of planetary habitability, geophysics, geodynamics, aqueous geochemistry, modeling and biology/astrobiology, including but not limited to the Mars subsurface.
- At least 5 years experience following the Ph.D. in research in one or more of the aforementioned fields.
- Peer-reviewed publications in high-impact journals in the aforementioned fields.

- Well-established record in obtaining funding as PI for scientific research and/or mission/instrument development.
- Excellent oral and written communication skills, with the ability to both work as part of a team and lead a team.

To view the full description and apply, please visit:

<http://jpl.jobs/jobs/2020-11866-Research-Scientist-III-Astrobiology-and-Ocean-Worlds> [12]

Applications received by June 8, 2020, will receive full consideration.

E) PH.D. STUDENT IN SPACE PHYSICS FOR STUDIES OF SPACE PLASMAS

The Swedish Institute of Space Physics (IRF) is looking for a Ph.D. student in Space Physics. The position is related to studies of space plasmas.

Applications are invited for a Ph.D. student to study kinetic plasma processes operating in space plasma regions of fundamental importance, such as magnetic reconnection sites, shocks, and turbulence regions. Such processes operate in most astrophysical plasma environments leading to plasma heating and production of energetic particles.

You will work directly with state-of-the-art experimental data from the NASA multi-spacecraft (MMS) mission.

The position is available at the IRF-office in Uppsala, starting at the latest in the second half of 2020 for a total of four years.

The Swedish National Space Agency, the Swedish Research Council and Uppsala University fund the position.

Contact: Dr Emiliya Yordanova, eya@irfu.se [13]

Applications: registrator@irf.se [14]

Closing Date: May 31, 2020

Information:

<https://www.irf.se/en/news/2020/05/11/phd-student-in-space-physics-to-studies-of-space-plasmas-ref2-2-1-146-20/> [15]

IRF is a government agency that conducts research and postgraduate education in space physics, atmospheric physics and space technology. Many of IRF's projects are run as international projects in collaboration with other research institutes and

space agencies. IRF has about 100 employees and offices in Kiruna (headquarters), Umea, Uppsala and Lund.

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Send submissions to:

Anne Verbiscer, DPS Secretary (dpssec@aaas.org [16])

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