

# Newsletter 19-40

Issue 19-40, September 4, 2019

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

1. EPSC-DPS 2019 POSTER PRINTING DEADLINE
2. SIGN UP FOR THE EPSC-DPS 2019 OPEN MIC SHOW
3. EARLY CAREER REVIEW FOR THE UPCOMING EPSC-DPS JOINT MEETING IN GENEVA SEPTEMBER 16 AND 17
4. DPS NOMINATING SUBCOMMITTEE MEMBER ELECTION AT THE DPS 2019 MEMBERS MEETING IN GENEVA
5. EPSC/DPS WOMEN IN PLANETARY SCIENCE DISCUSSION HOUR 2019 - GENEVA, SWITZERLAND
6. OPAG PRIORITY SCIENCE QUESTIONS: LETTER TO DR. LORI GLAZE, NASA PSD DIRECTOR POSTED TO OPAG WEBSITE
7. 2020A NASA IRTF CALL FOR PROPOSALS
8. NASA HUBBLE FELLOWSHIP PROGRAM NOW ACCEPTING APPLICATIONS
9. JOBS, POSITIONS, OPPORTUNITIES

+-----+

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

## EPSC-DPS 2019 MEETING POSTER PRINTING DEADLINE

The University of Geneva will offer a poster printing service for meeting attendees.

Price is CHF 15,-

Deadline for providing payment and providing your .pdf file is TOMORROW

5 September 2019 at 23:59 CEST: 6 PM Eastern, 5 PM Central, 4 PM Mountain, 3 PM Pacific Daylight Time

Ordered posters can be picked up by presenters at the conference center. Neither the

conference organizers nor members of the scientific organizing committee or the

local organizing committee will attach your poster to the dedicated poster board.

More details can be found on the EPSC-DPS 2019 meeting website:

[https://www.epsc-dps2019.eu/information/guidelines/poster\\_presentation\\_guidelines.html](https://www.epsc-dps2019.eu/information/guidelines/poster_presentation_guidelines.html) [1]

Order and upload your poster

here: <https://formulaire.unige.ch/outils/limebooking3/index.php/54828?lang=en> [2]

2-----2-----2-----2-----2-----2-----2-----2-----2-----2

**SIGN UP FOR THE EPSC-DPS 2019 OPEN MIC SHOW**

Don't forget to sign up for the EPSC-DPS Open Mic Show at

<https://meetingorganizer.copernicus.org/EPSC-DPS2019/session/34649> [3]

The show will be held Wednesday, 18 September, after the banquet in the same venue.

Banquet attendance is not required to attend. See you there!

3-----3-----3-----3-----3-----3-----3-----3-----3-----3

**EARLY CAREER REVIEW FOR THE UPCOMING EPSC-DPS JOINT MEETING IN GENEVA SEPTEMBER 16 AND 17**

Is EPSC-DPS 2019 your first conference presentation (oral or poster)? Nervous?

Would you like advice? Join others like you for this educational opportunity to get

feedback from seasoned presenters at the Early Career Review on Monday, Sep 16

& Tuesday, Sep 17, 08:30am -10:00am in the EPEC Room. Undergraduates, Graduate

Students, and new Post-Docs are all welcome. If you would like to participate in the

Early Career Presenters' Review, please register now  
at [https://www.surveymonkey.com/r/EC\\_2019\\_EPSC](https://www.surveymonkey.com/r/EC_2019_EPSC) [4].

If you have any questions, or are a seasoned presenter that would like to add your voice to the review, please contact Brian Jackson at [bjackson@boisestate.edu](mailto:bjackson@boisestate.edu) [5].

4-----4-----4-----4-----4-----4-----4-----4-----4-----4

#### DPS NOMINATING SUBCOMMITTEE MEMBER ELECTION AT THE DPS 2019 MEMBERS MEETING IN GENEVA

The DPS membership will elect a new member of the Nominating Subcommittee at the upcoming EPSC-DPS conference. This election will occur at the DPS member meeting at the conference. Nominations are made in person, and must be seconded. Voting occurs directly after nominations are complete.

The Nominating Subcommittee is responsible for assembling a slate of candidates to run for DPS vice-chair and committee. The 2020 committee includes Matthew Knight (University of Maryland) and incoming chair Carrie Nugent (Olin College). We thank current chair Yvonne Pendleton (NASA Ames) for her excellent leadership this year.

We encourage nominations of outstanding members of the DPS community, and attendance at the DPS member meeting. We look forward to welcoming our new member.

Please contact Carrie ([cnugent@olin.edu](mailto:cnugent@olin.edu) [6]) with any questions.

5-----5-----5-----5-----5-----5-----5-----5-----5-----5

#### EPSC/DPS WOMEN IN PLANETARY SCIENCE DISCUSSION HOUR 2019 - GENEVA, SWITZERLAND

Date: Wednesday, Sept. 18th, 2019

Time: 12:00-1:15 pm

Place: EPSC/DPS Conference venue, Saturn Lecture Room

Join us for the annual Women in Planetary Science event over lunch. All are welcome!

We will discuss professional development topics related to diversity and inclusion in planetary science. The presentation/discussion schedule will be announced on the registration page. Pre-registration at [http://bit.ly/DPS\\_WIPS\\_2019](http://bit.ly/DPS_WIPS_2019) [7] is required to receive a lunch (available to the first ~200 registrants due the generosity of our sponsors: AURA and Southwest Research Institute), and registration is recommended even if you are bringing your own lunch so we can balance room size with attendance size.

**\*\*Registration deadline to receive a lunch is September 7\*\***

More details and RSVP at: [http://bit.ly/DPS\\_WIPS\\_2019](http://bit.ly/DPS_WIPS_2019) [7]

6-----6-----6-----6-----6-----6-----6-----6-----6-----6

OUTER PLANETS ASSESSMENT GROUP (OPAG) PRIORITY SCIENCE QUESTIONS: LETTER TO DR. LORI GLAZE, NASA PLANETARY SCIENCE DIVISION (PSD) DIRECTOR POSTED TO OPAG WEBSITE

OPAG Priority Science Questions: Letter to Dr. Lori Glaze, NASA PSD Director  
(August 27, 2019) Posted to OPAG Website, see

[https://www.lpi.usra.edu/opag/meetings/aug2019/OPAG-ScienceLetter-to-Glaze\\_27Aug19.pdf](https://www.lpi.usra.edu/opag/meetings/aug2019/OPAG-ScienceLetter-to-Glaze_27Aug19.pdf) [8]

This letter is OPAG's response to the request by the PSD for OPAG to identify three Pre Decadal 'Big Questions' and how they relate to OPAG destinations.

7-----7-----7-----7-----7-----7-----7-----7-----7-----7

2020A NASA IRTF CALL FOR PROPOSALS

The due date for the 2020A semester (February 1, 2020 to July 31, 2020) is

---

Tuesday, October 1, 2019. See our online submission form

<http://irtfweb.ifa.hawaii.edu/observing/applicationForms.php> [9], which is available for proposal submission from 12:00AM on September 01, 2019 until 5:00PM on October 01, 2019 HST. Available instruments include: (1) SpeX, a 0.7 – 5.3 micron cross-dispersed medium-resolution spectrograph (up to R=2,500) and imager; (2) MORIS, a 512x512 pixel Andor CCD camera (60"x60" field-of-view) mounted at the side-facing window of the SpeX cryostat that can be used simultaneously with SpeX; (3) iSHELL, a 1.1 – 5.3 micron cross-dispersed echelle spectrograph (up to R=75,000) and imager; (4) MIRSI/MOC, a 5 – 20 micron camera and grism spectrograph (available as shared risk). Information on available facility and visitor instruments and performance can be found at: <http://irtfweb.ifa.hawaii.edu/instruments> [10]. Exposure time calculators for SpeX and iSHELL are available on the respective instrument webpages. Please see <http://irtfweb.ifa.hawaii.edu/observing/callForProposals.php> [11] for the full text.

8-----8-----8-----8-----8-----8-----8-----8-----8-----8

**NASA HUBBLE FELLOWSHIP PROGRAM NOW ACCEPTING APPLICATIONS**

On behalf of the NASA Astrophysics Division, the Space Telescope Science Institute (STScI) announces the call for applications for postdoctoral fellowships under the NASA Hubble Fellowship Program (NHFP) beginning in the fall of 2020. The NHFP supports promising postdoctoral scientists performing independent research that contributes to NASA Astrophysics (see <https://science.nasa.gov/astrophysics/> [12] for more information). The research may be theoretical, observational, and/or instrumental. If your application is successful and you accept our offer, you will become an Einstein, Hubble or Sagan fellow depending on the area of your research.

We are continuing the legacy of those three earlier programs in this way, and through

joint management of the program by STScI, in collaboration with the Chandra X-ray Center and the NASA Exoplanet Science Institute.

The NHFP is open to applicants of any nationality who have earned (or will have earned) their doctoral degree on or after January 1, 2017 in astronomy, physics or related disciplines.

The duration of the Fellowship is up to three years: an initial one-year appointment, and two annual renewals contingent on satisfactory performance and availability of NASA funds. Eligibility may extend to those who received their PhD as early as January 1, 2016, if professional work was necessarily delayed by personal or family considerations.

Extended eligibility must be justified in an email to [nhfp@stsci.edu](mailto:nhfp@stsci.edu) [13] at least 2 weeks in advance of the application deadline.

We anticipate offering up to 24 NHFP Fellowships this year. The Fellowships are tenable at a U.S. host institution of the fellow's choice, subject to a maximum of two new fellows per host institution per year, and no more than five fellows at any single host institution, except for short periods of overlap.

The Announcement of Opportunity, which includes detailed program policies and application instructions, is available at the website: <http://nhfp.stsci.edu> [14]. The application submission page will be open from September 3 until November 4, 2019.

Applicants should follow the instructions given in the Announcement and also examine the Frequently Asked Questions. Please send any further inquiries about the NHFP to [nhfp@stsci.edu](mailto:nhfp@stsci.edu) [13].

Important dates:

Applications are due Monday, November 4, 2019 (7 PM EST, 4 PM PST, 24:00 UTC)

Letters of reference are due Friday, November 8, 2019.

Offers will be made in early February 2020 and new appointments should begin on or about September 1, 2020.

NHFP Fellowships are open to English-speaking citizens of all nations. All applicants will receive consideration without regard to race, creed, color, age, gender, gender identity or expression, sexual orientation or national origin. Women and members of minority groups are strongly encouraged to apply.

9-----9-----9-----9-----9-----9-----9-----9-----9-----9

**JOBS, POSITIONS, OPPORTUNITIES**

**A) EDITOR OF THE PLANETARY SCIENCE JOURNAL (PSJ)**

The American Astronomical Society (AAS) and the Division for Planetary Sciences (DPS) are soliciting applications and nominations of candidates for the position of Editor of The Planetary Science Journal (PSJ). This is a new journal to serve the planetary science community.

See:

<https://aas.org/posts/news/2019/08/aas-dps-launch-gold-open-access-planetary-science-journal> [15]

The Search Committee is looking for candidates that have a record of achievement in planetary science, experience as an author and referee in this field, and a clear vision for the future of the PSJ. Previous editorial experience would be useful but is not required.

Candidates for this position should submit a cover letter, CV, bibliography, and names of two references to [personnel@aas.org](mailto:personnel@aas.org) [16]

Nominations for the position may also be sent to the same address. Selected candidates will be asked to provide evidence of institutional support for their assuming the above editorial duties.

The cover letter should address the candidate's qualifications, reason for interest in the position, and ideas for the operation, management, and future of the PSJ. Nominations submitted by September 30, 2019 will be given full consideration.

More information can be found at:

<https://jobregister.aas.org/ad/cfd23f2c> [17]

**B) FACULTY POSITION - WESTERN WASHINGTON UNIVERSITY**

Geology Department and

Department of Physics & Astronomy

The Geology Department and the Department of Physics & Astronomy at Western Washington University (WWU) invite applications for a tenure-track, assistant professor position with specialty in Planetary Geology/Geophysics, to begin Sept 16, 2020. We seek individuals who are enthusiastic about teaching, who will establish a vigorous research program, and who will involve undergraduate and Masters-level students in their research. Teaching assignments will be focused in Geophysics (<https://www.wwu.edu/majors/geophysics-bs> [18]), a program shared between the departments.

The ideal candidate will enhance our existing strengths in remote sensing, planetary geology, seismology, magnetism, tectonics and stellar astrophysics by developing new courses and research avenues in planetary geology and/or geophysics. Areas of interest include the role of physical processes in topics such as planet formation and evolution, planetary interiors, surfaces, or potential fields, small bodies, solar system dynamics, or related areas.

For details about the position, application information and instructions, go to the WWU Employment website [497337](#) [19]. Review of applications begins December 20, 2019 and will continue until the position is filled. Questions about the position should be directed to the search committee chair, Jackie Caplan-Auerbach. ([caplanj@wwu.edu](mailto:caplanj@wwu.edu) [20], 360-650-4153).

#### C) SPICE SYSTEM DEVELOPMENT ENGINEER

Jet Propulsion Laboratory  
Pasadena, California

NASA's Navigation and Ancillary Information Facility (NAIF), located at the



Jet Propulsion Laboratory in Pasadena, California, is seeking a skilled, dedicated and highly motivated professional to help develop the "SPICE 2.0" Toolkit, a re-implementation of the existing SPICE 1.0 Toolkit family using the C++11 language with a multithreaded and object-oriented architecture.

SPICE is the de facto worldwide standard for computing observation geometry used by scientists and engineers working on solar system exploration missions. The SPICE system and NAIF functions are described within the NAIF website: <https://naif.jpl.nasa.gov> [21].

The job involves original design, thoughtful implementation, excellent code documentation and provision of thorough testing facilities, all in keeping with existing NAIF standards and practices. The applicant must have demonstrable C++11 programming experience as well as skills in the areas of mathematics and space dynamics. He or she must be willing to quickly learn SPICE technology and capabilities in order to apply this knowledge to the SPICE 2.0 development effort.

Applicants should have a degree in Engineering or Applied Mathematics, and have several years of practical, related experience. This job is not in the domain of computer science, but a strong aptitude for practical computer programming is required. Practical knowledge of the Linux and OSX operating systems and of additional languages such as Fortran 77, C, IDL, Matlab, Python and Java Native Interface would be helpful. U.S. citizenship or permanent resident status is required.

Persons interested in learning more about this offering should access this URL: <https://jpl.jobs/jobs/2019-10884-SPICE-System-Development-Engineer> [22]

D) T.C. CHAMBERLIN POSTDOCTORAL FELLOWSHIP

University of Chicago

Chicago, Illinois

The Department of the Geophysical Sciences at The University of Chicago invites applications for the T.C. Chamberlin Postdoctoral Fellowship. We seek outstanding scientists who lead creative investigations into the nature of Earth and/or other planetary bodies. We encourage people with interests in any aspect of Earth and Planetary Sciences to apply. To give a sense of the diverse interests of our Chamberlin Fellows, in recent years Fellows have included people whose research focuses on planetary habitability, tropical cyclones, asteroid impacts, and petrology/geochronology.

Start date is negotiable, with a target of October 1, 2020. Please email a single pdf file containing a CV, a 2-4 page research plan, and names and contact information for at least three references, to: [chamberlin@geosci.uchicago.edu](mailto:chamberlin@geosci.uchicago.edu) [23] Applicants should also arrange for letters to be sent by their named references to the same address. Consideration of complete applications (those including letters of reference) will begin October 7, 2019.

The University of Chicago is an Affirmative Action / Equal Opportunity / Disabled / Veterans Employer and does not discriminate on the basis of race, color, religion, sex, sexual orientation, gender identity, national or ethnic origin, age, status as an individual with a disability, protected veteran status, genetic information, or other protected classes under the law

( [http://www.uchicago.edu/about/non\\_discrimination\\_statement/](http://www.uchicago.edu/about/non_discrimination_statement/) [24] ).

E) PHOTOGRAMMETRIST

USGS, Flagstaff, Arizona

The USGS Astrogeology Science Center is looking for a Photogrammetrist (GS-11/12 Physical Scientist). We work in coordination with NASA and other agencies to support missions to planetary objects across the Solar System. If you are looking for a rewarding position in the Federal workforce and have expertise in photogrammetry and software development, we need your help! Job duties include developing software, algorithms, and/or guidelines for mapping planetary data; developing planetary sensor models that define the transformation between image space and object space; producing improved geospatial knowledge of extraterrestrial bodies and planetary datasets (e.g., spacecraft ephemerides, digital elevation models, orthorectified images and mosaics, metadata, and control networks); and providing guidance to technical staff working on photogrammetric and geodetic production tasks. Applicants must have a bachelor's or higher degree in physical science, engineering, or mathematics, expertise in the concepts, theories, and principles of photogrammetry, cartography, geodesy, and/or computer vision, and experience developing and modifying software to apply these principles to highly varied datasets. Applicants must be US citizens, and a background check is required. This position is located in Flagstaff, AZ. Apply starting September 2, 2019 through USAjobs.gov announcement DEN-2019-0254.

<https://www.usajobs.gov/GetJob/ViewDetails/543559200> [25]

Contact Brent Archinal with questions: ([barchinal@usgs.gov](mailto:barchinal@usgs.gov) [26]; 928 556-7083).

-----+

Send submissions to:

Anne Verbiscer, DPS Secretary ([dpssec@aas.org](mailto:dpssec@aas.org) [27])

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) [28]. The more general AAS privacy policy is available

online at <https://aas.org/about/policies/privacy-policy> [29]. Current and back

issues of the DPS Newsletter can be found at <https://dps.aas.org/newsletters> [30]

## Footer

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

**Source URL:** <https://dps.aas.org/newsletters/19-40>

### Links

- [1] [https://urldefense.proofpoint.com/v2/url?u=https-3A\\_\\_www.epsc-2Ddps2019.eu\\_information\\_guidelines\\_poster-5Fpresentation-5Fguidelines.html&d=DwMGaQ&c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&m=EBN2ldLRUon7vk9ms9IATyCIRdFjNAv7AvkpGW5QMPs&s=wj9gJZjY0-2T5XEPSX\\_rDvWU4s5AdS1yVkyLpYafhkU&e=](https://urldefense.proofpoint.com/v2/url?u=https-3A__www.epsc-2Ddps2019.eu_information_guidelines_poster-5Fpresentation-5Fguidelines.html&d=DwMGaQ&c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&m=EBN2ldLRUon7vk9ms9IATyCIRdFjNAv7AvkpGW5QMPs&s=wj9gJZjY0-2T5XEPSX_rDvWU4s5AdS1yVkyLpYafhkU&e=)
- [2] [https://urldefense.proofpoint.com/v2/url?u=https-3A\\_\\_formulaire.unige.ch\\_outils\\_limebooking3\\_index.php\\_54828-3Flang-3Den&d=DwMGaQ&c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&m=EBN2ldLRUon7vk9ms9IATyCIRdFjNAv7AvkpGW5QMPs&s=oL0F5-e8OpmmDuz-eKSZ1ODhtUpVe6HPij\\_As72yzt0&e=](https://urldefense.proofpoint.com/v2/url?u=https-3A__formulaire.unige.ch_outils_limebooking3_index.php_54828-3Flang-3Den&d=DwMGaQ&c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&m=EBN2ldLRUon7vk9ms9IATyCIRdFjNAv7AvkpGW5QMPs&s=oL0F5-e8OpmmDuz-eKSZ1ODhtUpVe6HPij_As72yzt0&e=)
- [3] [https://urldefense.proofpoint.com/v2/url?u=https-3A\\_\\_meetingorganizer.copernicus.org\\_EPSC-2DDPS2019\\_session\\_34649&d=DwMGaQ&c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&m=EBN2ldLRUon7vk9ms9IATyCIRdFjNAv7AvkpGW5QMPs&s=4uj4VXw8UvMY1bSkYedKsYEvL8VOT3H2FsWgwOd-quY&e=](https://urldefense.proofpoint.com/v2/url?u=https-3A__meetingorganizer.copernicus.org_EPSC-2DDPS2019_session_34649&d=DwMGaQ&c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&m=EBN2ldLRUon7vk9ms9IATyCIRdFjNAv7AvkpGW5QMPs&s=4uj4VXw8UvMY1bSkYedKsYEvL8VOT3H2FsWgwOd-quY&e=)
- [4] [https://urldefense.proofpoint.com/v2/url?u=https-3A\\_\\_www.surveymonkey.com\\_r\\_EC-5F2019-5FEPSC&d=DwMGaQ&c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&m=EBN2ldLRUon7vk9ms9IATyCIRdFjNAv7AvkpGW5QMPs&s=wwAJlo2VVp3P1\\_ZquOp2xkV1ILVC42xvKT78UiCnhpY&e=](https://urldefense.proofpoint.com/v2/url?u=https-3A__www.surveymonkey.com_r_EC-5F2019-5FEPSC&d=DwMGaQ&c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&m=EBN2ldLRUon7vk9ms9IATyCIRdFjNAv7AvkpGW5QMPs&s=wwAJlo2VVp3P1_ZquOp2xkV1ILVC42xvKT78UiCnhpY&e=)
- [5] <mailto:bjackson@boisestate.edu>
- [6] <mailto:cnugent@olin.edu>
- [7] [https://urldefense.proofpoint.com/v2/url?u=http-3A\\_\\_bit.ly\\_DPS-5FWIPS-5F2019&d=DwMGaQ&c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&m=EBN2ldLRUon7vk9ms9IATyCIRdFjNAv7AvkpGW5QMPs&s=x-n8UDscalzCO77A7usY\\_DbxNo-yCKlzsTzjGzRcHXM&e=](https://urldefense.proofpoint.com/v2/url?u=http-3A__bit.ly_DPS-5FWIPS-5F2019&d=DwMGaQ&c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&m=EBN2ldLRUon7vk9ms9IATyCIRdFjNAv7AvkpGW5QMPs&s=x-n8UDscalzCO77A7usY_DbxNo-yCKlzsTzjGzRcHXM&e=)
- [8] [https://urldefense.proofpoint.com/v2/url?u=https-3A\\_\\_www.lpi.usra.edu\\_opag\\_meetings\\_aug2019\\_OPAG-2DScienceLetter-2Dto-2DGlaze-5F27Aug19.pdf&d=DwMGaQ&c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&m=EBN2ldLRUon7vk9ms9IATyCIRdFjNAv7AvkpGW5QMPs&s=Xng21H3hdl00Api9EVekhjQ\\_IM3Mzyi3m2KHaCux1i0&e=](https://urldefense.proofpoint.com/v2/url?u=https-3A__www.lpi.usra.edu_opag_meetings_aug2019_OPAG-2DScienceLetter-2Dto-2DGlaze-5F27Aug19.pdf&d=DwMGaQ&c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&m=EBN2ldLRUon7vk9ms9IATyCIRdFjNAv7AvkpGW5QMPs&s=Xng21H3hdl00Api9EVekhjQ_IM3Mzyi3m2KHaCux1i0&e=)
- [9] [https://urldefense.proofpoint.com/v2/url?u=http-3A\\_\\_irtfweb.ifa.hawaii.edu\\_observing\\_applicationForms.php&d=DwMGaQ&c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&m=EBN2ldLRUon7vk9ms9IATyCIRdFjNAv7AvkpGW5QMPs&s=YYr8QxaEZndBX9DvtWjbaNfdeP6c1T2pWb8dLx3ITys&e=](https://urldefense.proofpoint.com/v2/url?u=http-3A__irtfweb.ifa.hawaii.edu_observing_applicationForms.php&d=DwMGaQ&c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&m=EBN2ldLRUon7vk9ms9IATyCIRdFjNAv7AvkpGW5QMPs&s=YYr8QxaEZndBX9DvtWjbaNfdeP6c1T2pWb8dLx3ITys&e=)
- [10] [https://urldefense.proofpoint.com/v2/url?u=http-3A\\_\\_irtfweb.ifa.hawaii.edu\\_instruments&d=DwMGaQ&c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&m=EBN2ldLRUon7vk9ms9IATyCIRdFjNAv7AvkpGW5QMPs&s=bZc-qezTvPONmuvENA5dydopxWq-E8xnJfQdPGcNpO&e=](https://urldefense.proofpoint.com/v2/url?u=http-3A__irtfweb.ifa.hawaii.edu_instruments&d=DwMGaQ&c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&m=EBN2ldLRUon7vk9ms9IATyCIRdFjNAv7AvkpGW5QMPs&s=bZc-qezTvPONmuvENA5dydopxWq-E8xnJfQdPGcNpO&e=)
- [11] [https://urldefense.proofpoint.com/v2/url?u=http-3A\\_\\_irtfweb.ifa.hawaii.edu\\_observing\\_callForPropos](https://urldefense.proofpoint.com/v2/url?u=http-3A__irtfweb.ifa.hawaii.edu_observing_callForPropos)

als.php&am p;d=DwMGaQ&am p;c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&am p;r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&am p;m=EBN2ldLRUon7vk9ms9IATyCIRdFjNAv7AvkpGW5QMPs&am p;s=OvispQdGQPHihRgjafMFzpWSmHugOy0NhxhgF4eMM4vc&am p;e=  
[12] <https://science.nasa.gov/astrophysics/>  
[13] <mailto:nhfp@stsci.edu>  
[14] [https://urldefense.proofpoint.com/v2/url?u=http-3A\\_\\_nhfp.stsci.edu\\_&d=DwMGaQ&am p;c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&am p;r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&am p;m=EBN2ldLRUon7vk9ms9IATyCIRdFjNAv7AvkpGW5QMPs&am p;s=l\\_ktTk-SN6-JTybBF4NYBieNgHbhfaDslt9szBWLOH8&am p;e=](https://urldefense.proofpoint.com/v2/url?u=http-3A__nhfp.stsci.edu_&d=DwMGaQ&am p;c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&am p;r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&am p;m=EBN2ldLRUon7vk9ms9IATyCIRdFjNAv7AvkpGW5QMPs&am p;s=l_ktTk-SN6-JTybBF4NYBieNgHbhfaDslt9szBWLOH8&am p;e=)  
[15] [https://urldefense.proofpoint.com/v2/url?u=https-3A\\_\\_aas.org\\_posts\\_news\\_2019\\_08\\_aas-2Ddps-2DIaunch-2Dgold-2Dopen-2Daccess-2Dplanetary-2Dscience-2Djournal&am p;d=DwMGaQ&am p;c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&am p;r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&am p;m=EBN2ldLRUon7vk9ms9IATyCIRdFjNAv7AvkpGW5QMPs&am p;s=gAZ8oeYqsKZNqDulx8kzE3KgX9wL3ni96MFHT99dCug&am p;e=](https://urldefense.proofpoint.com/v2/url?u=https-3A__aas.org_posts_news_2019_08_aas-2Ddps-2DIaunch-2Dgold-2Dopen-2Daccess-2Dplanetary-2Dscience-2Djournal&am p;d=DwMGaQ&am p;c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&am p;r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&am p;m=EBN2ldLRUon7vk9ms9IATyCIRdFjNAv7AvkpGW5QMPs&am p;s=gAZ8oeYqsKZNqDulx8kzE3KgX9wL3ni96MFHT99dCug&am p;e=)  
[16] <mailto:personnel@aas.org>  
[17] [https://urldefense.proofpoint.com/v2/url?u=https-3A\\_\\_jobregister.aas.org\\_ad\\_cfd23f2c&am p;d=DwMGaQ&am p;c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&am p;r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&am p;m=EBN2ldLRUon7vk9ms9IATyCIRdFjNAv7AvkpGW5QMPs&am p;s=yF8Fpyoyg-PZjv8KVSnt7EXVWJ0SkHwtZUQQcBaLpFY&am p;e=](https://urldefense.proofpoint.com/v2/url?u=https-3A__jobregister.aas.org_ad_cfd23f2c&am p;d=DwMGaQ&am p;c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&am p;r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&am p;m=EBN2ldLRUon7vk9ms9IATyCIRdFjNAv7AvkpGW5QMPs&am p;s=yF8Fpyoyg-PZjv8KVSnt7EXVWJ0SkHwtZUQQcBaLpFY&am p;e=)  
[18] [https://urldefense.proofpoint.com/v2/url?u=https-3A\\_\\_www.wvu.edu\\_majors\\_geophysics-2Dbs&am p;d=DwMGaQ&am p;c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&am p;r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&am p;m=EBN2ldLRUon7vk9ms9IATyCIRdFjNAv7AvkpGW5QMPs&am p;s=zOg4enApwuKMv4FnFqvbCoJIEY\\_8Dg8Bt49WuQjvUAAs&am p;e=](https://urldefense.proofpoint.com/v2/url?u=https-3A__www.wvu.edu_majors_geophysics-2Dbs&am p;d=DwMGaQ&am p;c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&am p;r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&am p;m=EBN2ldLRUon7vk9ms9IATyCIRdFjNAv7AvkpGW5QMPs&am p;s=zOg4enApwuKMv4FnFqvbCoJIEY_8Dg8Bt49WuQjvUAAs&am p;e=)  
[19] [https://urldefense.proofpoint.com/v2/url?u=https-3A\\_\\_employment.wvu.edu\\_cw\\_en-2Dus\\_job\\_497337\\_assistant-2Dprofessor-2Dof-2Dplanetary-2Dgeologygeophysics&am p;d=DwMGaQ&am p;c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&am p;r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&am p;m=EBN2ldLRUon7vk9ms9IATyCIRdFjNAv7AvkpGW5QMPs&am p;s=fxURTCyWuK5rj9eA22s\\_FE-UeZi3\\_aaH2nhvrwxkW44&am p;e=](https://urldefense.proofpoint.com/v2/url?u=https-3A__employment.wvu.edu_cw_en-2Dus_job_497337_assistant-2Dprofessor-2Dof-2Dplanetary-2Dgeologygeophysics&am p;d=DwMGaQ&am p;c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&am p;r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&am p;m=EBN2ldLRUon7vk9ms9IATyCIRdFjNAv7AvkpGW5QMPs&am p;s=fxURTCyWuK5rj9eA22s_FE-UeZi3_aaH2nhvrwxkW44&am p;e=)  
[20] <mailto:caplanj@wwu.edu>  
[21] <https://naif.jpl.nasa.gov/>  
[22] [https://urldefense.proofpoint.com/v2/url?u=https-3A\\_\\_jpl.jobs\\_jobs\\_2019-2D10884-2DSPICE-2DSystem-2DDevelopment-2DEngineer&am p;d=DwMGaQ&am p;c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&am p;r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&am p;m=EBN2ldLRUon7vk9ms9IATyCIRdFjNAv7AvkpGW5QMPs&am p;s=kxojF2vLlxJmdVRDJAuzUP72lz8jdY8U6U-z3ne1AiA&am p;e=](https://urldefense.proofpoint.com/v2/url?u=https-3A__jpl.jobs_jobs_2019-2D10884-2DSPICE-2DSystem-2DDevelopment-2DEngineer&am p;d=DwMGaQ&am p;c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&am p;r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&am p;m=EBN2ldLRUon7vk9ms9IATyCIRdFjNAv7AvkpGW5QMPs&am p;s=kxojF2vLlxJmdVRDJAuzUP72lz8jdY8U6U-z3ne1AiA&am p;e=)  
[23] <mailto:chamberlin@geosci.uchicago.edu>  
[24] [https://urldefense.proofpoint.com/v2/url?u=http-3A\\_\\_www.uchicago.edu\\_about\\_non-5Fdiscrimination-5Fstatement\\_&d=DwMGaQ&am p;c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&am p;r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&am p;m=EBN2ldLRUon7vk9ms9IATyCIRdFjNAv7AvkpGW5QMPs&am p;s=i1Justpx538l8PTcWZ-gZyNOZRTOH5vnjL1oQjLUZE8&am p;e=](https://urldefense.proofpoint.com/v2/url?u=http-3A__www.uchicago.edu_about_non-5Fdiscrimination-5Fstatement_&d=DwMGaQ&am p;c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&am p;r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&am p;m=EBN2ldLRUon7vk9ms9IATyCIRdFjNAv7AvkpGW5QMPs&am p;s=i1Justpx538l8PTcWZ-gZyNOZRTOH5vnjL1oQjLUZE8&am p;e=)  
[25] [https://urldefense.proofpoint.com/v2/url?u=https-3A\\_\\_www.usajobs.gov\\_GetJob\\_ViewDetails\\_543559200&am p;d=DwMGaQ&am p;c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&am p;r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&am p;m=EBN2ldLRUon7vk9ms9IATyCIRdFjNAv7AvkpGW5QMPs&am p;s=5X8mUH64DBJ13\\_zrz1zar7VjvRd4N9SpzrOQY0gn9TA&am p;e=](https://urldefense.proofpoint.com/v2/url?u=https-3A__www.usajobs.gov_GetJob_ViewDetails_543559200&am p;d=DwMGaQ&am p;c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&am p;r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&am p;m=EBN2ldLRUon7vk9ms9IATyCIRdFjNAv7AvkpGW5QMPs&am p;s=5X8mUH64DBJ13_zrz1zar7VjvRd4N9SpzrOQY0gn9TA&am p;e=)  
[26] <mailto:barchinal@usgs.gov>  
[27] <mailto:dpssec@aas.org>  
[28] <mailto:privacy@aas.org>  
[29] [https://urldefense.proofpoint.com/v2/url?u=https-3A\\_\\_aas.org\\_about\\_policies\\_privacy-2Dpolicy&am p;d=DwMGaQ&am p;c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&am p;r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&am p;m=EBN2ldLRUon7vk9ms9IATyCIRdFjNAv7AvkpGW5QMPs&am p;s=qZ6qkvoF3NUd6C7LuLpKDgqm8be7wKxO0bLp7YVcTSM&am p;e=](https://urldefense.proofpoint.com/v2/url?u=https-3A__aas.org_about_policies_privacy-2Dpolicy&am p;d=DwMGaQ&am p;c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&am p;r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&am p;m=EBN2ldLRUon7vk9ms9IATyCIRdFjNAv7AvkpGW5QMPs&am p;s=qZ6qkvoF3NUd6C7LuLpKDgqm8be7wKxO0bLp7YVcTSM&am p;e=)  
[30] [https://urldefense.proofpoint.com/v2/url?u=https-3A\\_\\_dps.aas.org\\_newsletters&am p;d=DwMGaQ&am p;c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&am p;r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&am p;m=EBN2ldLRUon7vk9ms9IATyCIRdFjNAv7AvkpGW5QMPs&am p;s=VqiGRFGrGlz3Zh8N5rj8tgjSQ\\_V70SpYYPn5MvGI9f8&am p;e=](https://urldefense.proofpoint.com/v2/url?u=https-3A__dps.aas.org_newsletters&am p;d=DwMGaQ&am p;c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&am p;r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&am p;m=EBN2ldLRUon7vk9ms9IATyCIRdFjNAv7AvkpGW5QMPs&am p;s=VqiGRFGrGlz3Zh8N5rj8tgjSQ_V70SpYYPn5MvGI9f8&am p;e=)

