

## Newsletter 20-39

Issue 20-39, August 23, 2020

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### DPS 2020 DEPENDENT CARE GRANTS

The DPS Susan Niebur Professional Development Fund provides financial assistance to qualifying members of the DPS in order to facilitate their meeting participation by offsetting dependent care costs (such as childcare, elder care, spousal care, etc) at the meeting location, or at home, during the DPS conference week. This includes dependent care expenses needed to allow attendance and participation in the 2020 virtual DPS meeting.

The DPS Professional Development Subcommittee will accept applications for dependent care subsidies to assist an eligible DPS member to participate in the 2020 DPS Meeting.

The initial submission deadline is Monday, September 14, 2020. The review of submissions will begin Tuesday September 15; however, further requests will be accepted and reviewed, funding and eligibility permitting.

Please access the grant application form at <https://dps.aas.org/development#grants> [1].

Mark Gurwell, DPS Professional Development Subcommittee member

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**APOPHIS T-9 YEARS: ABSTRACT DEADLINE REMINDER**

Apophis T-9 Years: Knowledge Opportunities for the Science of Planetary Defense

Virtual Workshop November 4-6, 2020

This virtual workshop will explore the dynamical details and corresponding science opportunities presented by the April 13, 2029 near-miss passage of the asteroid Apophis. Knowledge is the first line of planetary defense, and the 2029 Apophis encounter is a once-per-thousand-year opportunity for investigating an asteroid as large as 350 meters passing within 6 Earth-radii.

[Call for Abstracts](#) [2]

Abstract submission deadline - August 26, 2020, 5:00pm Central Daylight Time (GMT -5)

[Registration](#) [3]

Registration deadline - October 21, 2020

<https://www.hou.usra.edu/meetings/apophis2020/> [4]

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**THE ART OF PLANETARY SCIENCE 2020: A VIRTUAL ODYSSEY**

Calling all space artists!

Submissions are now open for The Art of Planetary Science 2020: A Virtual Odyssey.

This year, we are partnered with [International Observe the Moon Night](#) [5] and will be hosting an additional special sub-gallery of moon-themed art as a result.

The [submission form](#) [6], as well as detailed information about the [2020 Prospectus](#) [7], is located on our [website](#) [8].

Art [submissions are open](#) [6] August 1-31, 2020, and the virtual art gallery will be located on [The Art of Planetary Science 2020 website](#) [8] starting September 25th, 2020.

The Art of Planetary Science 2020: A Virtual Odyssey opening weekend will occur September 25-27, 2020. The all-virtual event weekend will kick off with an opening of the online art gallery, streamed presentations from artists and scientists, music and entertainment performances, and a telescope viewing stream of the Moon.

Stay tuned for more details and an event schedule release.

We hope to see you this year, virtually!

Sincerely,

Your TAPS 2020 Organizers

[art@lpl.arizona.edu](mailto:art@lpl.arizona.edu) [9]

[www.lpl.arizona.edu/art](http://www.lpl.arizona.edu/art) [10]

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INDICATION OF INTEREST: DECADEAL WHITE PAPER ON THE VALUE OF EXTENDED MISSIONS

Please sign up here to be involved in a white paper to be submitted to the Planetary Science and Astrobiology Decadal Survey on the value of Extended Missions to planetary science and to the workforce.

<https://forms.gle/862Ugz5jdQZfCgBa8> [11]

There is a tremendous demonstrated value in Extended Missions. They produce excellent science at low incremental cost. Additionally, these missions provide early-career scientists opportunities for active mission involvement and experience in leadership roles, thus increasing diversity at all levels. However, despite NASA’s best intentions, there are aspects of their handling of Extended Missions that have detrimental effects to the success of those missions.

This will be an update to the 2016 National Academies report on “Extending Science: NASA’s Space Science Mission Extensions and the Senior Review Process”. We plan to evaluate the recommendations of that study, provide a reminder of those recommendations which have not yet been addressed and add new recommendations.

Contact Ingrid Daubar [ingrid\\_daubar@brown.edu](mailto:ingrid_daubar@brown.edu) [12] and/or  
Ross Beyer [rbeyer@seti.org](mailto:rbeyer@seti.org) [13] with any questions or comments.

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### 2021A NASA KECK CALL FOR PROPOSALS

The NASA Exoplanet Science Institute is soliciting proposals, including those for Solar System observations, to use NASA’s portion of time on the Keck Telescopes for the 2021A observing semester (February 1 - July 31, 2021). All proposals are due by September 17, 2020 at 4 pm PDT.

The opportunity to propose as a Principal Investigator for NASA time on the Keck Telescopes is open to all U.S.-based astronomers (a U.S.-based astronomer has their principal affiliation at a U.S. institution). Investigators from institutions outside of the

U.S. may participate as Co-Investigators on proposals for NASA Keck time.

NASA intends the use of the Keck telescopes to be highly strategic in support of on-going space missions and/or high priority, long-term science goals. Proposals are sought in the following discipline areas: (1) investigations in support of EXOPLANET EXPLORATION science goals and missions; (2) investigations of our own SOLAR SYSTEM; (3) investigations in support of COSMIC ORIGINS science goals and missions; and (4) investigations in support of PHYSICS OF THE COSMOS science goals and missions. Direct mission support proposals in any of these scientific areas are also encouraged.

Please read the [Call for Proposals](#) [14] for complete information, instrument availability, and application guidelines.

**Key Dates:**

- \_ September 3: deadline to request General Mission Support letter from NASA HQ
- \_ September 17: all proposals and supporting letters due to NExSci

Questions: [KeckCFP@ipac.caltech.edu](mailto:KeckCFP@ipac.caltech.edu) [15]

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AGU VIRTUAL STUDENT TRAVEL GRANT APPLICATIONS DUE AUGUST 25

The 2020 AGU [Fall Meeting Virtual Student Travel Grant](#) [16] program is accepting applications for students to be reimbursed for some of the costs to attend #AGU20's online experience. This year, all factors are being considered, from technical needs like Wi-Fi to childcare. The deadline to submit your application is August 25. [READ MORE](#) [17]

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## LSST SOLAR SYSTEM SCIENCE COLLABORATION

Over its 10-year lifespan, the Rubin Observatory's Legacy Survey of Space and Time (LSST) will catalog over 5 million Main Belt asteroids, almost 300,000 Jupiter Trojans, over 100,000 NEOs, over 40,000 KBOs, tens of interstellar objects, and over 10,000 comets. Many of these small bodies will receive hundreds of observations in multiple bandpasses. The LSST Solar System Science Collaboration (SSSC) is preparing methods and tools to analyze this data, as well as understand optimum survey strategies for discovering moving objects throughout the Solar System. Over the next year, the SSSC will be giving feedback on the possible scenarios for the LSST survey strategy and providing suggestions for on-sky observing during Rubin Observatory's commissioning that would enhance opportunities for science validation. Our current guidelines on membership are focused on building community involvement. If you're interested in joining the SSSC, more details can be found at <http://www.lsstssc.org> [18]

If you have any questions, please contact the SSSC Co-Chairs, Meg Schwamb ([mschwamb.astro@gmail.com](mailto:mschwamb.astro@gmail.com) [19]) and David Trilling ([David.Trilling@nau.edu](mailto:David.Trilling@nau.edu) [20]).

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## JOBS, POSITIONS, OPPORTUNITIES

### A) POSTDOCTORAL POSITION IN DATA VISUALIZATION FOR PLANETARY AND SPACE SCIENCES

<https://virtualplanet.wustl.edu/postdoc-position-in-data-visualization-for-planetary-sciences/> [21]

The Department of Earth & Planetary Sciences at Washington University in St. Louis seeks a postdoctoral research associate to manage a unique data visualization program within the Fossett Laboratory for Virtual Planetary Exploration. The Fossett Lab is a leader in developing applications and outreach experiences that leverage Augmented Reality

(AR) technology for education and research in Earth, planetary, and space sciences. The successful candidate will maintain apps for Microsoft HoloLens, iOS, and Android devices; build new AR experiences that serve needs of Washington University instructors and scholars; and coordinate education and outreach.

The candidate selected for this position will also conduct independent research as an associate of the McDonnell Center for the Space Sciences (MCSS). In their application, the candidate should describe research interests and list potential collaborators from among MCSS faculty.

Candidates must have a Ph.D. in Earth, planetary, or space science. The initial appointment is for one year, renewable for a second year. Salary is commensurate with experience. To apply, contact Phil Skemer, Director of the Fossett Lab, with a statement of interest, CV, and names and contact information for three professional references.

[pskemer@wustl.edu](mailto:pskemer@wustl.edu) [22]

<http://virtualplanet.wustl.edu> [23]

## B) POSTDOCTORAL OPPORTUNITIES WITH THE SMA

We are pleased to announce that the applications for the 2021 Submillimeter Array (SMA) Postdoctoral Fellowship program are now open. We anticipate offering one or more SMA Postdoctoral Fellowships starting Summer/Fall 2021. Application information and instructions can be found at

<http://www.cfa.harvard.edu/opportunities/fellowships/sma> [24]

The deadline for applications is October 15, 2020.

The SMA is a pioneering radio interferometer designed for arc-second imaging in the submillimeter spectrum. SMA science spans an impressive array of fields, ranging from our solar system, through imaging of gas and dust and tracing magnetic fields in stellar nurseries and planet-forming disks, to exploration of nearby galaxies and imaging of dusty star-forming galaxies at high redshift, and to time domain flux monitoring observations of compact objects. In addition to its outstanding record in astronomical research, the SMA is a world leader in the design of wide-bandwidth, high-frequency radio receivers for astronomy. The SMA recently commissioned a significant upgrade

to its correlator to process up to 48 GHz of total bandwidth at a uniform spectral resolution of 140 kHz across the entire processed spectral range, providing significantly enhanced science capability.

These positions are aimed chiefly at research, both observational and theoretical, in submillimeter astronomy. Successful candidates will participate in remote and on-site observations with the SMA, research in their interpretation, and/or instrument development. While the SMA fellowships are intended primarily for research associated with the SMA, our main offices at the Center for Astrophysics provide Fellows with unique opportunities to develop collaborations within the broader CfA community of 250 Ph.D. staff researchers and with extraordinary freedom in structuring their research activities. Applicants must have a recent Ph.D. in astronomy or a related field.

The SMA is a collaboration between the Smithsonian Astrophysical Observatory and the Academia Sinica Institute of Astronomy and Astrophysics in Taipei, Taiwan. The Smithsonian Astrophysical Observatory, a part of Center for Astrophysics, is an Equal Opportunity/Affirmative Action Employer where all qualified applicants receive equal consideration without regard to race, color, creed, national origin or gender.

The CfA is a supportive environment for many active STEM outreach and educational programs at the local and national level, especially those reaching underserved communities.

We also conduct research on effectiveness of such innovations and offer professional development opportunities to enhance proficiency in communication and teaching.

Should you have any questions, feel free to contact [smapostdoc@cfa.harvard.edu](mailto:smapostdoc@cfa.harvard.edu) [25].

### C) PHD AND POSTDOC OPPORTUNITIES AT DARTMOUTH COLLEGE

Dear colleagues,

We are searching for a graduate student and postdoctoral researcher in the broad





areas of ice mechanics and cryospheric fluid dynamics to join us in the Thayer

School of Engineering at Dartmouth College. We are looking for students of applied mathematics, physics, earth science, or engineering with a keen interest in snow, glaciers, permafrost, and/or icy satellites. Within each of these topic areas, we will work together to find a project of mutual interest and the successful applicants will be encouraged to develop their own ideas.

As a research group, we specifically aim to foster a broader participation of underrepresented researchers in the geophysical sciences. Our goal is to build a community that is supportive and inclusive, with individualized mentoring for each researcher to account for the unique challenges they face.

Please feel free to get in touch if you are interested or know of exceptional candidates.

We prefer a winter/spring 2021 start for the PhD student, and flexible for the postdoc.

Dartmouth College is a private, liberal arts college in Hanover, New Hampshire which is in the bucolic Upper Valley on the border of New Hampshire and Vermont. Situated on the Connecticut River and the Appalachian Trail, there are fantastic opportunities for outdoor activities in the surrounding region including hiking, trail running, rowing, skiing, and cycling. Locally there are many trails for cross country and backcountry skiing in addition to the Dartmouth Skiway. Major ski resorts are nestled into the Green and White Mountains, about 1-2 hours afield.

The Upper Valley is a collection of 6+ towns with cafes, breweries, farmer's markets, and coop grocery stores with an artistic and inclusive community.

Additionally, Hanover is 2.5 hours from Boston, MA and 3.5 hours from Montreal, QC.

Dr. Colin R. Meyer  
Assistant Professor of Engineering  
Thayer School of Engineering, Dartmouth College  
[engineering.dartmouth.edu/people/faculty/colin-meyer](http://engineering.dartmouth.edu/people/faculty/colin-meyer) [26]

D) SCIENTIFIC PROGRAMMER POSITION, FREIE UNIVERSITÄT BERLIN (GERMANY)

Late Accretion onto Terrestrial Planets (TRR 170) is a Transregional Collaborative

Research Center funded by the German Research Foundation (DFG). The scope of TRR 170 is the interdisciplinary study of the late growth history of terrestrial planets. We are seeking a programmer who is familiar with the setup and functionality of Dataverse to provide programming support to our IT team. Work can be carried out for selected work packages or in full.

Experience: IT student to senior programmer. The work can also be designed for a Bachelor or Master thesis.

Working remotely is possible, office location at FU Berlin Campus Lankwitz.

In total 12 months of work can be split over several time periods in 2020-2023.

[READ MORE](#) [27]

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Send submissions to:

Anne Verbiscer, DPS Secretary ([dpssec@aas.org](mailto:dpssec@aas.org)) [28]

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To unsubscribe or update your information, please send your request

to [privacy@aas.org](mailto:privacy@aas.org) [29]. The more general AAS privacy policy is available

online at <https://aas.org/about/policies/privacy-policy> [30]. Current and back

issues of the DPS Newsletter can be found at <https://dps.aas.org/newsletters> [31]

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- [3] [https://urldefense.proofpoint.com/v2/url?u=https-3A\\_\\_www.hou.usra.edu\\_meetings\\_apophis2020\\_logistics&d=DwMGaQ&c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&m=HxieWehePtoF\\_zLlc4Lz0KWkiW2u\\_hL5t7ushnvW8ul&s=Kes5sAF\\_cIOkoGU74xJNwffXopnru2cNmEb0\\_0XH2L0&e=](https://urldefense.proofpoint.com/v2/url?u=https-3A__www.hou.usra.edu_meetings_apophis2020_logistics&d=DwMGaQ&c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&m=HxieWehePtoF_zLlc4Lz0KWkiW2u_hL5t7ushnvW8ul&s=Kes5sAF_cIOkoGU74xJNwffXopnru2cNmEb0_0XH2L0&e=)
- [4] [https://urldefense.proofpoint.com/v2/url?u=https-3A\\_\\_www.hou.usra.edu\\_meetings\\_apophis2020\\_&mp;d=DwMGaQ&c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&m=HxieWehePtoF\\_zLlc4Lz0KWkiW2u\\_hL5t7ushnvW8ul&s=bMvp6VHzXo1MhDDEFYJxu1e39TPJG9FdPFG5rrh5IA&e=](https://urldefense.proofpoint.com/v2/url?u=https-3A__www.hou.usra.edu_meetings_apophis2020_&mp;d=DwMGaQ&c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&m=HxieWehePtoF_zLlc4Lz0KWkiW2u_hL5t7ushnvW8ul&s=bMvp6VHzXo1MhDDEFYJxu1e39TPJG9FdPFG5rrh5IA&e=)
- [5] <https://moon.nasa.gov/observe>
- [6] [https://urldefense.proofpoint.com/v2/url?u=https-3A\\_\\_www.lpl.arizona.edu\\_art\\_2020\\_submit&d=DwMGaQ&c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&m=HxieWehePtoF\\_zLlc4Lz0KWkiW2u\\_hL5t7ushnvW8ul&s=WRxy\\_2\\_OJM7mwUoUrlEvf3Os0uxwt9-8u4uilLQ4GY&e=](https://urldefense.proofpoint.com/v2/url?u=https-3A__www.lpl.arizona.edu_art_2020_submit&d=DwMGaQ&c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&m=HxieWehePtoF_zLlc4Lz0KWkiW2u_hL5t7ushnvW8ul&s=WRxy_2_OJM7mwUoUrlEvf3Os0uxwt9-8u4uilLQ4GY&e=)
- [7] [https://urldefense.proofpoint.com/v2/url?u=https-3A\\_\\_www.lpl.arizona.edu\\_art\\_2020\\_prospectus&mp;d=DwMGaQ&c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&m=HxieWehePtoF\\_zLlc4Lz0KWkiW2u\\_hL5t7ushnvW8ul&s=WS9MWbSRu8ei00IQeqlh6B07fknYzQ53MkMBOxkYIA&e=](https://urldefense.proofpoint.com/v2/url?u=https-3A__www.lpl.arizona.edu_art_2020_prospectus&mp;d=DwMGaQ&c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&m=HxieWehePtoF_zLlc4Lz0KWkiW2u_hL5t7ushnvW8ul&s=WS9MWbSRu8ei00IQeqlh6B07fknYzQ53MkMBOxkYIA&e=)
- [8] [https://urldefense.proofpoint.com/v2/url?u=https-3A\\_\\_www.lpl.arizona.edu\\_art\\_2020&d=DwMGaQ&c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&m=HxieWehePtoF\\_zLlc4Lz0KWkiW2u\\_hL5t7ushnvW8ul&s=XHgNjK0DEg56Aj6MzeRKHdjNf7qls-earZR2\\_18I0Bo&e=](https://urldefense.proofpoint.com/v2/url?u=https-3A__www.lpl.arizona.edu_art_2020&d=DwMGaQ&c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&m=HxieWehePtoF_zLlc4Lz0KWkiW2u_hL5t7ushnvW8ul&s=XHgNjK0DEg56Aj6MzeRKHdjNf7qls-earZR2_18I0Bo&e=)
- [9] <mailto:art@lpl.arizona.edu>
- [10] [https://urldefense.proofpoint.com/v2/url?u=http-3A\\_\\_www.lpl.arizona.edu\\_art&d=DwMGaQ&c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&m=HxieWehePtoF\\_zLlc4Lz0KWkiW2u\\_hL5t7ushnvW8ul&s=IDy4JM1eWhDeZe4Tv9iuvAakA8JjGR5D0LCd1D9NoXo&e=](https://urldefense.proofpoint.com/v2/url?u=http-3A__www.lpl.arizona.edu_art&d=DwMGaQ&c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&m=HxieWehePtoF_zLlc4Lz0KWkiW2u_hL5t7ushnvW8ul&s=IDy4JM1eWhDeZe4Tv9iuvAakA8JjGR5D0LCd1D9NoXo&e=)
- [11] [https://urldefense.proofpoint.com/v2/url?u=https-3A\\_\\_forms.gle\\_862Ugz5jdQZfCgBa8&d=DwMGaQ&c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&m=HxieWehePtoF\\_zLlc4Lz0KWkiW2u\\_hL5t7ushnvW8ul&s=DNspF3Z6qtr-Pb6yQjMhRzazF1vryEHUe6sfgvEK8uw&e=](https://urldefense.proofpoint.com/v2/url?u=https-3A__forms.gle_862Ugz5jdQZfCgBa8&d=DwMGaQ&c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&m=HxieWehePtoF_zLlc4Lz0KWkiW2u_hL5t7ushnvW8ul&s=DNspF3Z6qtr-Pb6yQjMhRzazF1vryEHUe6sfgvEK8uw&e=)
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- [13] <mailto:rbeyer@seti.org>
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