

Newsletter 20-42

Issue 20-42, September 13, 2020

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DECADAL WHITE PAPER ON EXTENDED MISSIONS

Please read and comment:

https://docs.google.com/document/d/1DqFleFqZgvi-_FrnA075mp32erGZfSE9svTLOvRrr0k/edit?usp=sharing [1]

Please co-sign: <https://forms.gle/q9aoNY4mtB1aWVan9> [2]

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. We recommend several specific actions to be taken to ensure the financial stability of EMs, for the benefit to science, and to our community of scientists.

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 [3] and/or Ross Beyer rbeyer@seti.org [4] with any questions or comments.

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INTERNATIONAL OBSERVE THE MOON NIGHT IS SEPTEMBER 26TH

Join us for the 11th Annual [International Observe the Moon Night](#) [5] on Saturday, September 26th! You are invited to join people around the world to learn about lunar science and exploration, take part in celestial observations, and honor cultural and personal connections to the Moon. This is also a great event to be a virtual speaker!

You can participate in International Observe the Moon Night from wherever you are. [Attend](#) [6] or [host](#) [7] a virtual or in-person event, or observe the Moon [from home](#) [8]. The Moon will be close to first quarter – a great phase for evening observing.

Learn more, register your participation, and find recommended activities, tips and resources to host and evaluate events, and much more on the International Observe the Moon Night website: moon.nasa.gov/observe [5].

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2021A NASA IRTF CALL FOR PROPOSALS

The due date for the 2021A semester (February 1, 2021 to July 31, 2021) is Thursday,

October 1, 2020. 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, 2020 until 5:00PM on October 01, 2020 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. 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.

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ARECIBO OBSERVATORY OBSERVER TRAINING WORKSHOP

The Arecibo Observatory is hosting a free virtual workshop on October 15-16, 2020 to train future observers. If you intend to venture into or use in your future research projects single-dish radio or radar astronomy, please check out our page on this event and register at

<https://www.naic.edu/ao/blog/gboao-single-dish-and-observer-training-workshops-october-13-16-2020> [12]

This workshop is intended for professionals or students who already have a basic knowledge of radio astronomy but would like to learn how to use our observatories to achieve their upcoming science goals.

This workshop is advertised jointly with the Green Bank Observatory, who are hosting

their own training workshop just prior to AO's (October 13-14, 2020). Feel free to sign up for both (if you intend to use both telescopes), but please register (at the link) for each separately! The schedule will also be available at the link after we have a better idea of the interests of our attendees. For now, the topics covered in AO's Observer Training Workshop will include talks and hands-on demos of the following topics:

- Interplanetary Scintillation
- Spectral Line Observations
- Pulsar Studies
- Planetary Radar
- Available Astronomy Instrumentation (receivers, backends)
- AO's new proposal system
- Observing methods, telescope control software, data reduction software
- History of and future plans for Arecibo Observatory

Please note that due to the recent structural damage to the telescope we will be using existing data rather than running live observations. You may find the press release on the telescope shutdown via

<https://www.ucf.edu/news/broken-cable-damages-arecibo-observatory/> [13].

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JOBS, POSITIONS, OPPORTUNITIES

A) RESEARCH SCIENTIST, OUTER PLANET MAGNETOSPHERES AND MOON INTERACTION

The Jet Propulsion Laboratory, California Institute of Technology invites applications for a Research Scientist position in planetary science, with a focus on research and instrument/mission development in the areas of magnetospheres, magnetosphere-moon interactions and astrobiology.

In this position you will conduct planetary science research with a focus on modeling of magnetospheric charged particle interactions and



other exogenous weathering effects, and applying such results to inform remote sensing observations and biosignature detection. It is expected that the successful candidate would develop an independently-funded research program and would pursue new mission and/or instrument opportunities focusing on the exploration of habitable environments in the Solar System, in particular the icy moons of the Ice Giant planets.

This position requires a Ph.D. degree in space physics, planetary science, planetary physics, or a related field along with expertise in outer planet magnetospheres and moon-magnetosphere interactions (ideally Ice Giants).

To view the full description and apply, please visit:

<http://jpl.jobs/jobs/2020-12409-Research-Science-Outer-Planet-Magnetospheres-and-Moon-Interactions> [14].

Applications received by October 12, 2020, will receive full consideration.

B) ASSISTANT PROFESSOR, OKLAHOMA STATE UNIVERSITY

The Department of Physics at Oklahoma State University invites applications for a tenure track assistant professor position in astronomy or planetary sciences. The successful candidate should have a proven track record of research in their respective area and is expected to attract extramural research funding, publish scholarly articles, and teach effectively at the graduate and undergraduate levels. The successful candidate will also be expected to oversee the department's Mendenhall Observatory and coordinate outreach activity at the site:

<https://physics.okstate.edu/research/mendenhall-observatory> [15]

OSU is a Carnegie-R1 comprehensive public research university committed to increasing the diversity of its faculty (currently 25% of the Physics Department faculty are from underrepresented groups). The Department of Physics welcomes applications from outstanding

candidates, who, through their research, teaching, and/or service will contribute to the diversity and excellence of the Physics Department. A Ph.D. in Physics or an allied field is required as well as the promise of excellence in teaching and the ability to mentor underrepresented students.

An appointment at the Assistant Professor level is expected with a start date of August 17, 2021. Review of applications will begin on January 4, 2021 and will continue until the position is filled.

Apply at:

<https://apply.interfolio.com/77415> [16]

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Send submissions to:

Anne Verbiscer, DPS Secretary (dpssec@aaas.org [17])

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- [2] [https://urldefense.proofpoint.com/v2/url?u=https-3A__forms.gle_q9aoNY4mtB1aWVan9&d=Dw MGaQ&c=ApwzowJNAK Kw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&r=fG5pH1N7YtwOEF6xelPA eRse0ND3CGAXrgq3T4Wd0y4&m=ZL-1vWo58JjGjGP2dmtH9xzXomXCovQohFnNLTcuZ9I&s=ar HB8Ta4kGRZmjgXsjqNYd2625Vw2pN-6QOjm3NjnKY&e=](https://urldefense.proofpoint.com/v2/url?u=https-3A__forms.gle_q9aoNY4mtB1aWVan9& d=Dw MGaQ& c=ApwzowJNAK Kw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk& r=fG5pH1N7YtwOEF6xelPA eRse0ND3CGAXrgq3T4Wd0y4& m=ZL-1vWo58JjGjGP2dmtH9xzXomXCovQohFnNLTcuZ9I& s=ar HB8Ta4kGRZmjgXsjqNYd2625Vw2pN-6QOjm3NjnKY& e=)
- [3] mailto:ingrid_daubar@brown.edu
- [4] <mailto:rbeyer@seti.org>
- [5] <https://moon.nasa.gov/observe-the-moon-night/>
- [6] <https://moon.nasa.gov/observe-the-moon-night/participate/find-an-event/>
- [7] <https://moon.nasa.gov/observe-the-moon-night/how-to-host/the-basics/>
- [8] <https://moon.nasa.gov/observe-the-moon-night/register/individual-participation/>
- [9] [https://urldefense.proofpoint.com/v2/url?u=http-3A__irtfweb.ifa.hawaii.edu_observing_applicationFor ms.php&d=DwMGaQ&c=ApwzowJNAK Kw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&r=fG5p H1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&m=ZL-1vWo58JjGjGP2dmtH9xzXomXCovQohFn NLTcuZ9I&s=X0hUaNf0Dz3DPeGjsTGjhh2BvNxjWyPLN5Y5iw6VK_Q&e=](https://urldefense.proofpoint.com/v2/url?u=http-3A__irtfweb.ifa.hawaii.edu_observing_applicationFor ms.php& d=DwMGaQ& c=ApwzowJNAK Kw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk& r=fG5p H1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4& m=ZL-1vWo58JjGjGP2dmtH9xzXomXCovQohFn NLTcuZ9I& s=X0hUaNf0Dz3DPeGjsTGjhh2BvNxjWyPLN5Y5iw6VK_Q& e=)
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- [14] [https://urldefense.proofpoint.com/v2/url?u=http-3A__jpl.jobs_jobs_2020-2D12409-2DResearch-2DSc ience-2DOuter-2DPlanet-2DMagnetospheres-2Dand-2DMoon-2DInteractions&d=DwMGaQ&c= ApwzowJNAK Kw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAX rgq3T4Wd0y4&m=ZL-1vWo58JjGjGP2dmtH9xzXomXCovQohFnNLTcuZ9I&s=fuLcc5QkyM-Cbb- 50otryqMACD3UsYfwJg0SAfH_t7k&e=](https://urldefense.proofpoint.com/v2/url?u=http-3A__jpl.jobs_jobs_2020-2D12409-2DResearch-2DSc ience-2DOuter-2DPlanet-2DMagnetospheres-2Dand-2DMoon-2DInteractions& d=DwMGaQ& c= ApwzowJNAK Kw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk& r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAX rgq3T4Wd0y4& m=ZL-1vWo58JjGjGP2dmtH9xzXomXCovQohFnNLTcuZ9I& s=fuLcc5QkyM-Cbb- 50otryqMACD3UsYfwJg0SAfH_t7k& e=)
- [15] [https://urldefense.proofpoint.com/v2/url?u=https-3A__physics.okstate.edu_research_mendenhall-2 Dobservatory&d=DwMGaQ&c=ApwzowJNAK Kw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&r= fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&m=ZL-1vWo58JjGjGP2dmtH9xzXomXCov QohFnNLTcuZ9I&s=vkgHkwmb1K00SkRmf493DbxaDbXVcdBcyfknemBAEiU&e=](https://urldefense.proofpoint.com/v2/url?u=https-3A__physics.okstate.edu_research_mendenhall-2 Dobservatory& d=DwMGaQ& c=ApwzowJNAK Kw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk& r= fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4& m=ZL-1vWo58JjGjGP2dmtH9xzXomXCov QohFnNLTcuZ9I& s=vkgHkwmb1K00SkRmf493DbxaDbXVcdBcyfknemBAEiU& e=)
- [16] [https://urldefense.proofpoint.com/v2/url?u=https-3A__apply.interfolio.com_77415&d=DwMGa](https://urldefense.proofpoint.com/v2/url?u=https-3A__apply.interfolio.com_77415& d=DwMGa)



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[17] <mailto:dpssec@aaas.org>

[18] <mailto:privacy@aaas.org>

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