Newsletter 19-49

Issue 19-49, October 27, 2019

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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(at)jpl.nasa.gov

https://dps.aas.org/education/trick-or-treat-and-telescopes [1]

https://earthsky.org/tonight/moon-goes-by-jupiter-on-halloween [2]

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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UPCOMING PROPOSAL WRITING WORKSHOPS FOR R&A PROPOSALS

The success of scientists depends upon their ability to obtain funding. One of the

largest challenges is to create strong proposals. Using Research Opportunities in

Space and Earth Sciences (ROSES) from NASA Science Mission Directorate as

a template, this presentation will focus on teaching the audience key points to

communicating science through successful proposal writing. As a result of this

session, participants will be able to understand the proposal writing, reviewing,

and selection process for federally funded research. How to understand one's values

and maintain those throughout this process will also be focused on during this workshop.

Workshops will be held at the follow locations:

The University of Hawaii at Manoa:

Wednesday, Oct 30th, 2019: 2-4 PM HST,

POST 601,
https://www.higp.hawaii.edu/seminars/2019seminars.html?fbclid=IwAR3l8Af3rGwEeCO7d2RRCAoHjLR-G5EZb9Bo4I27-J-3H6Mj_Ri2xPffD40 [3]

Note: registration not required.

This will be a shortened Tips and Tricks Talk.

The AGU Fall Meeting:

Sunday, Dec. 8th, 2019: 8 AM- Noon PDT,

Grand Hyatt, Sunset Room,

https://www.agu.org/fall-meeting [4].

Registration is required for this workshop through the meeting website.

The 235th American Astronomical Society Meeting:

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January 4th, 2020: 10 AM- 4 PM HST (lunch break included),

Honolulu Convention Center, Room 307 B,

https://aas.org/meetings/aas235 [5].

Registration is required for this workshop through the meeting website.

Acknowledgments: We greatly appreciate support for this (and other upcoming

workshops) from the NASA TWSC Program. For questions, please contact

Christina Richey (christina.r.richey@jpl.nasa.gov [6]).

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ICE GIANT SESSION AT EGU

Dear Colleagues,

The 2020 EGU conference will be held in Vienna on 3–8 May.

I would like to invite you to submit a paper to the Session PS5.1 Ice Giant System

Exploration. We welcome papers on all aspects of the exploration of the ice giant

systems, including potential future mission concepts, instrumentation, and technologies.

Session Description: This session welcomes abstracts addressing the exploration

of ice giants systems, including the internal structure, and atmosphere composition,

structure, and processes of the ice giants, as well as ice giant magnetospheres, satellites,

and rings. Potential concepts for future ice giant system exploration, instrumentation,

technology developments, and international cooperation are also of high interest.

Convener: David H. Atkinson

Co-conveners: Sushil K. Atreya, Patrick Irwin, Olivier Mousis, Amy Simon

To submit an abstract, go to https://meetingorganizer.copernicus.org/EGU2020/sessionprogramme#PS5
[7],

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navigate to PS5.1 and click on the link Abstract submission.

The deadline for abstract submission 15 January 2020, 13:00 CET.

Please note that EGU has a One-Abstract Rule: First Authors are limited to one

submitted abstract at EGU.

We look forward to seeing you in Vienna in May!

With best regards,

The Conveners

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MARS ARCHITECTURE STRATEGY WORKING GROUP IS ASKING FOR YOUR INPUT

The Mars Architecture Strategy Working Group (MASWG) requests

input on Mars mission concepts by Friday, November 22.

NASA has formed a Mars Architecture Strategy Working Group

(MASWG). MASWG would like to understand the types of mission

concepts that could be feasible to launch in the period 2020-2035, in

parallel with or following Mars Sample Return.

We are asking the community to share high-level one-page descriptions

of potential mission concepts with the working group. The goal is to

understand the breadth of mission types and approaches in each size

class. This is not an opportunity for funding, to get your mission

concept into a queue, or to promote any single mission. All mission

types up through New Frontiers cost class are requested.

Submitters should use the template (email MASWGcomments@jpl.nasa.gov [8]

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for a copy) and submit to MASWGcomments@jpl.nasa.gov [8]. All inputs will

be treated as confidential; submissions will be kept internal to the

MASWG and will not be distributed to NASA HQ or to the community.

Details of MASWG and this request will be discussed in the MEPAG

Virtual Meeting (VM7) on Wednesday, November 13.

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JOBS, POSITIONS, OPPORTUNITIES

A) TENURED/TENURE-TRACK FACULTY POSITION IN SPACE ENGINEERING,

SPACE SYSTEMS TECHNOLOGY, AND/OR REMOTE SENSING FROM SPACE PLATFORMS

The Department of Aerospace Engineering and Engineering Mechanics at The

University of Texas at Austin is searching for a tenured/tenure-track position in

space engineering, space systems technology and/or remote sensing from space

platforms. All ranks (assistant, associate, full) will be considered and the expected

start date will be September 2020.

Candidates are sought with expertise in space systems in support of Earth, planetary

or space science and technologies. Topics in space systems include systems engineering,

orbital mechanics, spacecraft dynamics, autonomy, estimation and control, embedded

systems, mission design, technology miniaturization, small satellite engineering, on-board

algorithms and other emerging areas in space technology. Topics in remote sensing

from space platforms include satellite geodesy, GIS, climatology, oceanography, data

analysis, inverse theory, modeling, and innovative instrument or systems design. It is

preferred for the candidate to affiliate with the Center for Space Research and assume

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responsibility for growing key new capabilities of the center. The department and the

Cockrell School of Engineering are committed to building a diverse and inclusive

environment. We are interested in candidates who will contribute to diversity and

equal opportunity in higher education through their teaching, research, and service.

Candidates must have a Ph.D. degree in engineering or a related field. Successful

candidates are expected to supervise graduate students, teach undergraduate and

graduate courses, develop a sponsored research program, collaborate with other

faculty, and be involved in service to the university and the engineering profession.

Applications received by December 1, 2019 are assured full consideration, but the

search will continue until the position is filled. Only complete applications will be

considered. Interested applicants should submit the following to

https://apply.interfolio.com/69762 [9]: 1) a cover letter, 2) current vitae, 3) statements

of research and teaching interests, 4) statement describing their commitment to

promoting diversity and inclusion through their research, teaching, and/or service,

5) a list of five references.

The University of Texas at Austin is an affirmative action, equal opportunity employer.

For more information about the Department of Aerospace Engineering and Engineering

Mechanics, please visit http://www.ae.utexas.edu [10]. These positions have been designated

as security-sensitive, and a criminal background check will be conducted on the

applicants selected.

B) GIS TEACHING POSITION

Tulane University's Department of Earth & Environmental Sciences seeks

to fill a Professor of Practice position to begin in July 2020. The

responsibilities of this position include teaching courses related to

the department's GIS Certificate Program, teaching courses in the

applicant's area of specialization, and service to the educational

mission of the department and university. Opportunities exist for

advising undergraduate research and development of service-learning

courses. A doctoral degree in an environmental science or related

field is required. Applicants will be expected to teach introductory

and advanced GIS courses.

Applications are due November 1 and details regarding the position and

the application materials can be found at:

http://apply.interfolio.com/64259 [11]

Questions regarding the position can be addressed to Dr. Nancye Dawers

(ndawers@tulane.edu [12])

C) POSTDOCTORAL RESEARCH SCHOLAR IN PLANETARY GEOPHYSICS

The School of Earth and Space Exploration (SESE) at Arizona State

University invites applications for a postdoctoral research scholar in

Planetary Geophysics to work with Profs. Joseph O'Rourke and Linda

Elkins-Tanton. We seek an individual with the mathematics and physics

training and expertise with scientific programming to model the surface

temperature of an asteroid as it receives varying insolation over the

course of the year. This work will be in service to the NASA Psyche

mission and in collaboration with Prof. Elkins-Tanton. This individual

will also undertake related research on the formation, evolution,

and/or characterization of large asteroids and protoplanets in

partnership with Prof. O'Rourke. The successful candidate will be

encouraged to pursue research of their own interest and professional

development in preparation for seeking a permanent position after their

fellowship.

The initial appointment is for one year with subsequent annual renewal

for up to two additional years contingent upon satisfactory

performance, the needs of the university, and availability of

resources. The start date is no later than August 1, 2020. This fiscal

year position comes with a competitive salary, funding for travel,

moving expenses, and full health insurance coverage.

http://apply.interfolio.com/70090 [13]

D) RESEARCH ASSOCIATE IN DATA SCIENCE, MACHINE LEARNING, AND SCIENTIFIC PROGRAMMING

The department of Geophysics of the GFZ German Research Centre for

Geosciences invites applications for 1 position of Research Associate

in Data Science, Machine Learning, and Scientific Programming in the

group "Magnetospheric Physics".

Candidates should have a PhD in space physics, plasma physics, or

related field. Experience in programming (in particular in code

development), as well as a strong knowledge of programming languages

and operating systems is also required. Experience in machine learning,

data mining, and data assimilation is a plus.

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Deadline: 17 November 2019

For more details please see:

https://tinyurl.com/PDGFZ-ML-2019 [14]

The work will be performed in the context of the EU Horizon 2020-funded

consortium PAGER led by GFZ Potsdam, and of the Helmholtz

Association-funded pilot project MAP also led by GFZ. The primary aim

of PAGER is to provide space weather predictions initiated from

observations on the Sun and to predict radiation in space and its

effects on satellite infrastructure. In the frame of the MAP project,

we aim to use ML tools to model the plasma density in the ionosphere

and plasmasphere.

For questions please contact Prof. Shprits: yshprits@gfz-potsdam.de [15]

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Send submissions to:

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

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to privacy@aas.org [17]. The more general AAS privacy policy is available

online at https://aas.org/about/policies/privacy-policy [18]. Current and back

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[3] https://urldefense.proofpoint.com/v2/url?u=https-3A__www.higp.hawaii.edu_seminars_2019seminars.html-3Ffbclid-3DIwAR3l8Af3rGwEeCO7d2RRCAoHjLR-2DG5EZb9Bo4l27-2DJ-2D3H6Mj-5FRi2xPffD40&d=DwMGaQ&c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&m=64_0hg2-qPv_pI3G1GUW-O4cRBNFJs9gUncoHlS5g5A&s=5t8yX8CFMHdolGr212EDmDS7eJcsP89Tf138F7YFn_E&e=
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[5] https://urldefense.proofpoint.com/v2/url?u=https-3A__aas.org_meetings_aas235&d=DwMGaQ&c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&m=64_0hg2-qPv_pI3G1GUW-O4cRBNFJs9gUncoHlS5g5A&s=IwS_1ClUHCcRL_UbTw4egigc3yezELy1mlJbVyrER2I&e=
[6] mailto:christina.r.richey@jpl.nasa.gov
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[8] mailto:MASWGcomments@jpl.nasa.gov
[9] https://urldefense.proofpoint.com/v2/url?u=https-3A__apply.interfolio.com_69762&d=DwMGaQ&c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&m=64_0hg2-qPv_pI3G1GUW-O4cRBNFJs9gUncoHlS5g5A&s=WCMABM_6WmybxvYjF5z__Q7EDf6QmpqiNtkxPOUXeMI&e=
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[12] mailto:ndawers@tulane.edu

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