

Newsletter 20-15

Issue 20-15, April 2, 2020

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MEMORIAL SERVICE FOR ADAM SHOWMAN

There will be a Zoom memorial service for Adam Showman on Saturday, April 4,
at 1 p.m. MST (4 p.m. EDT, 20:00 UTC)

Registration is at <https://arizona.zoom.us/meeting/register/upUtdu2srTloB8sXjXM3skbpWp6bni0A> [1],
or can be accessed through a link on the memorial page for Prof. Showman, at
<https://www.lpl.arizona.edu/showman> [2]

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IN MEMORIAM: WILLIAM CASSIDY (1928-2020)

Emeritus Professor William A. Cassidy of the Department of Geology and Environmental Science (formerly the Geology and Planetary Science Department) at the University of Pittsburgh passed away of a heart attack on March 22, 2020. Bill is best known for creating the ANSMET (Antarctic Search for Meteorites) program in 1976, serving as its PI for nearly 20 years. The ANSMET program has recovered more than 22,000 samples its start, and Bill's efforts helped to triple the world's

inventory of meteorites.

Because of those efforts, the Cassidy Glacier in Antarctica was named for him, as well as the mineral Cassidyite, and the asteroid 3382 Cassidy. In 1979, he was awarded the Antarctica Service Medal. His efforts in Antarctica were documented in his memoir, "Meteorites, Ice, and Antarctica: A Personal Account" published by Cambridge University Press in 2003.

Bill had a marvelous sense of humor that rivaled his sense of adventure, which took him to impact craters in Canada, South America, Africa, and Australia. He will be missed by his colleagues and friends.

More information can be found here:

<https://www.geology.pitt.edu/news/emeritus-faculty-member-dr-william-cassidy> [3]

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EARLY CAREER VIRTUAL NETWORKING EVENT HOSTED BY LPI

Early career scientists (undergraduate/graduate students and postdocs) are invited to register to give lightning talks (5 min) on their work (i.e., research, skills) during a virtual networking event hosted by the Lunar and Planetary Institute (LPI). This virtual event is intended to provide a venue for early career scientists on the job market to network with prospective advisors and employers in the wake of the cancellation of the 2020 Lunar and Planetary Science Conference.

Prospective advisors and employers are invited to view these presentations, which will be scheduled into thematic sessions. The talks will also be posted online to increase participant's exposure opportunities.

Interested presenters are asked to register at <https://www.surveymonkey.com/r/6WSK8YR> [4]. Registration will close at 5:00 P.M. US Central Time on April 10th. Tentatively, these presentations will be scheduled over a span of days in the late April/early May timeframe.

Please direct questions to [Andy Shaner](#) [5].

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NASA POSTDOCTORAL FELLOWSHIP – APPLICATION DEADLINE JULY 1, 2020

The NASA Postdoctoral Program offers US and international scientists the opportunity to advance their research while contributing to NASA's scientific goals. The NPP supports fundamental science; explores the undiscovered; promotes intellectual growth; and encourages scientific connections.

Selected by a competitive peer-review process, NPP Fellows complete one- to three-year Fellowship appointments that advance NASA's missions in earth science, heliophysics, planetary science, astrophysics, space bioscience, aeronautics and engineering, human exploration and space operations, and astrobiology.

Current NPP research opportunities in planetary science can be viewed here:

[NPP Planetary Sciences Research Opportunities](#) [6].

Applicants must have a Ph.D. or equivalent degree in hand before beginning the fellowship, but may apply while completing the degree requirements. U.S. citizens, Lawful Permanent Residents, and foreign nationals eligible for J-1 status as a Research Scholar may apply.

Stipends start at \$60,000 per year, with supplements for high cost-of-living areas and for certain academic specialties. Financial assistance is available for relocation and health insurance, and \$10,000 per year is provided for professional travel.

Applications are accepted three times each year: March 1, July 1, and November 1.

For further information and to apply, visit: <https://npp.usra.edu/> [7]

Questions: npphelp@usra.edu [8]

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ARECIBO OBSERVATORY QUARTERLY NEWSLETTER AVAILABLE

The [Spring 2020 Arecibo Observatory Newsletter](#) [9] is now available! Within it, we share research highlights, updates about the telescope, and more. You can subscribe to receive this newsletter in the future: [Join AO Newsletter list](#) [10]. Be sure to whitelist the email arecibocommunication@ucf.edu [11] to avoid the newsletter being filtered to spam.

<https://mailchi.mp/977f0d559205/draft-newsletter-vol-4-6385128?e=0fae033d8e> [9]

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JOBS, POSITIONS, OPPORTUNITIES

A) SOLAR SYSTEM EXPLORATION POSTDOC AT THE JOHNS HOPKINS UNIVERSITY

Applications are invited for a postdoctoral position in the Department of Earth and Planetary Sciences at the Johns Hopkins University working with the new SSERVI team Project ESPRESSO.

<http://eps.jhu.edu> [12]

<https://www.espresso.institute> [13]

The Postdoctoral Fellow will be working under the supervision of Prof. Sarah Hörst <https://www.sarahhorst.com> [14]

but will include collaborations with Prof. Kevin Lewis in EPS and ESPRESSO Team Members at other institutions. The Postdoctoral Fellow's primary responsibilities will include laboratory measurements of optical constants and a candidate with experience in these types of measurements and data analysis is preferred. Secondary responsibilities of the Postdoctoral Fellow will include participation in fieldwork and data analysis of geological materials using LIBS and Raman spectroscopy under the supervision of Prof. Kevin Lewis.

Applicant must have a Ph.D. in a related field.



Applicants should submit their CV (including publications), a 1-2 page statement of research interests, and contact information including email addresses for 3 references. Please contact Prof. Hörst with any questions about the position (sarah.horst@jhu.edu [15]). Review of applications will begin on April 15, 2020.

More information including application submission found here:
<http://apply.interfolio.com/75174> [16]

B) POST-DOCTORAL POSITION AT THE NATIONAL RESEARCH COUNCIL IN ITALY

The National Research Council (CNR) in Italy is offering a post-doctoral position at the Institute of Applied Mathematics and Information Technology in Milan. The project is entitled "Co-orbital motion and three-body regimes in the Solar System", and the scientific supervisor is Dr. Elisa Maria Alessi.

The aim is to analyze co-orbital motion using perturbation methods and the restricted three-body problem and the corresponding invariant objects. The focus will be to understand the relationship between the two approaches and the possible transition towards different orbital regimes. A special emphasis will be given to apply the analysis and the results to asteroid motion.

The official call can be found here:
<http://www.imati.cnr.it/index.php/opportunities?layout=edit&id=826> [17]

The duration of the position is 12 months, renewable 6 more months. Application deadline is April 24, 2020. Due to the COVID-19 emergency, the interview will be held remotely. In addition, the researcher may be allowed to work from her/his place, upon agreement with the Director of the Institute and the supervisor of the project.

For further information contact Dr. Alessi: em.alessi@mi.imati.cnr.it [18]

C) EMIRATES MARS MISSION POSTDOCTORAL RESEARCH FELLOWSHIPS

The Emirates Mars Mission (EMM) and Khalifa University (KU) are inviting applications for up to 5 postdoctoral research fellowships. We seek candidates interested in spacecraft observations and models of the Martian atmosphere relevant to EMM observations. EMM will arrive at Mars in early 2021 and carries an imaging system with several visible and UV bandpasses (EXI), a thermal IR spectrometer (EMIS), and a UV imaging spectrometer (EMUS).

Postdocs will split their time between a U.S. or French host institution affiliated with the EMM science team and KU in Abu Dhabi, United Arab Emirates. While at KU the postdocs will continue their EMM research and participate in the formation of a new space science and technology center. One or more of the postdocs may be able to transition to a tenure-track faculty position at KU during or after the

postdoc period.

Applicants should have met the requirements for a Ph.D. in a relevant field by May 2020. Applications will be considered on a rolling basis, with initial review starting May 23.

Please contact KUMarsPostdoc@lasp.colorado.edu [19] with questions. A complete posting with additional information can be found at: <https://jobs.colorado.edu/jobs/JobDetail/?jobId=24229> [20]

D) JOB VACANCIES IN SHANGHAI ASTRONOMICAL OBSERVATORY, CHINESE ACADEMY OF SCIENCES

Dr. Dali Kong is a research professor at Shanghai Astronomical Observatory, Chinese Academy of Sciences. He is now leading a team mainly working on planetary fluid mechanics and magnetohydrodynamics, under funding received from the National Natural Science Foundation of China, Chinese Academy of Sciences and China Space Agency. The themes of researches include planetary interior structure, equation of state (EOS), rotating convection and planetary dynamo. Especially, in the vision of China's future space exploration missions, relevant applicational studies are also carried out. For the above reasons, the research team is now recruiting assistant professors and/or post-doc fellows, who are supposed to work independently on the three grounds as below outlined.

1. China is pushing forward an ambitious Solar-system exploration agenda. Scientific expertise is critical for mission planning, scheduling and implementing. Because of that, we are looking for a candidate who is devoted to mission-oriented studies of planetary space, surface or interior conditions. The candidate is expected to have a good knowledge of fluid mechanics or magnetohydrodynamics.
2. We are building an experimental apparatus conducting laboratory simulations of precession/libration driven fluid dynamics. This mechanism is believed to be one of possible power sources of planetary dynamo. The fluid experiment will also

be extended to study fluid-terrain coupling near planetographic boundary. We therefore demand engineering staffs whose profession is in civil engineering, electricians, data acquisition, controlling, mechanics or other helpful fields.

3. Geophysical and astrophysical fluid dynamics usually requires massive-scale computations. It is not easy to develop a numerical software that can make full use of the potential hardware power of computing facilities. We are looking for an expert in numerical computing who can make significant progress in designing dedicated algebraic pre-conditioners in order to achieve an ever-best scalability of fully 3D finite-element simulations based on general non-structured polyhedral meshes.

Any queries about the salary package, working conditions or job application are welcome to Dr. Kong directly via either email: dkong@shao.ac.cn [21] or telephone: +86-21-34775637/+8615618872818.

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Send submissions to:

Anne Verbiscer, DPS Secretary (dpssec@aas.org [22])

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to privacy@aas.org [23]. The more general AAS privacy policy is available

online at <https://aas.org/about/policies/privacy-policy> [24]. Current and back

issues of the DPS Newsletter can be found at <https://dps.aas.org/newsletters> [25]

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Links

- [1] https://urldefense.proofpoint.com/v2/url?u=https-3A__arizona.zoom.us_meeting_register_upUtdu2srTloB8sXjXM3skbpetWp6bni0A&am&d=DwMGaQ&c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&m=AyqibN1r0lxEWXTIj5lwpzRUmHEUn07t0srSpxYfaY&s=VY8jUPff1MHGuNI_E1v7U4-gj2eP7iDyyc5gFXEfig&e=
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- [6] https://urldefense.proofpoint.com/v2/url?u=https-3A__npp.usra.edu_opportunities_-3Ffilter-5Fkeywords-3D-26filter-5Ffields-3D145&d=DwMGaQ&c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&m=AyqibN1r0lxEWXTIj5lwpzRUmHEUn07t0srSpxYfaY&s=hlLBMYYd2HWITkES2Mc_Dpm2ZOyLLPs03jqO9qB0sR0&e=
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