

Newsletter 17-23

Issue 17-23, June 19, 2017

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PLANETARY EXPLORATION NEWSLETTER INVITATION

Dear Colleagues,

You are invited to subscribe to and participate in the Planetary Exploration Newsletter (PEN), now in its eleventh year. PEN is a free weekly electronic newsletter, provided as a service by the Planetary Science Institute, for planetary scientists around the world to communicate with each other. The editors are volunteers. PEN contains meeting announcements, job announcements, and your submissions of news regarding or impacting solar system exploration, upcoming mission events, awards, policy issues, as well as editorials, commentary and memorials, and planetary-related commercial announcements. PEN also

includes announcements of PDS data releases and ROSES programs and special messages to the planetary community from NASA leadership.

The PEN Meeting Calendar (<http://planetarynews.org/meetings.html> [1]) strives to be the most exhaustive listing of planetary-related meetings, conferences and workshops around the world. Send the title, dates, location and URL to pen_editor at psi.edu [2].

Go to <http://planetarynews.org> [3] to subscribe to future mailings, read current and past newsletters, and see guidelines for submitting content. There is no charge.

Your PEN Editors,

Mark V. Sykes, Karen R. Stockstill-Cahill, Elisabeth Adams
(Planetary Science Institute)

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ICE GIANT MISSION STUDY RELEASED

A joint NASA-ESA study of potential missions to Uranus and Neptune has been released. The study was performed as part of preparations for the next Planetary Science Decadal Survey. It identifies the scientific questions the next Ice Giant mission should address, and discusses various instruments, spacecraft, flight-paths, and technologies that could be used. The full study as well as an Executive Summary are available at

http://www.lpi.usra.edu/icegiants/mission_study [4].

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NEOWISE 2017 DATA RELEASE AVAILABLE JUNE 1, 2017

The Near-Earth Object Wide-field Infrared Survey Explorer (NEOWISE) and IPAC at the California Institute of Technology announce the NEOWISE 2017 Data Release.

The 2017 Data Release includes all data acquired during the third year of the NEOWISE Reactivation mission (Mainzer et al. 2014, *ApJ*, 792, 30), 13 December 2015 to 13 December 2016. These data are combined with the Year 1 and 2 NEOWISE data into a single archive that contains approximately 7.7 million sets of 3.4 and 4.6 micron images and a database of over 57.7 billion source detections extracted from those images.

NEOWISE scanned the sky nearly six complete times during the first three years of survey operations, with approximately six months between survey passes. With twelve or more independent 3.4 and 4.6 micron exposures made on each point of the sky during each survey epoch, the NEOWISE archive is a time-domain resource for extracting multiple, independent thermal flux and position measurements of solar system small bodies, as well as background galactic and extragalactic sources.

A quick guide to the NEOWISE data release, data access instructions and supporting documentation is available at

<http://wise2.ipac.caltech.edu/docs/release/neowise/> [5].

Access to the NEOWISE data products is available via the on-line and API services of the NASA/IPAC Infrared Science Archive (IRSA) at

<https://irsa.ipac.caltech.edu> [6]. IRSA's new Time Series Tool enables interactive visualization and analysis of NEOWISE light curve and image data (<https://irsa.ipac.caltech.edu/irsaviewer/timeseries> [7]).

NEOWISE is a project of the Jet Propulsion Laboratory/California Institute of Technology. NEOWISE is funded by the National Aeronautics and Space Administration Planetary Science Division.

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NOTICE OF FUTURE CALL FOR NASA KECK KEY STRATEGIC MISSION SUPPORT PROGRAMS

NASA is a 1/6 partner in the two 10-m telescopes of the William M. Keck Observatory. Access to NASA's share of this time on the Keck telescopes, approximately 90 nights per year, is available to all astronomers resident at US institutions. Proposals are submitted twice a year to the [NASA Exoplanet Science Institute \(NExSci\)](#) [8] which runs the selection process on behalf of all science disciplines in NASA's Astrophysics and Planetary Science Divisions. Observing time is awarded on the basis of scientific merit and the degree to which the proposed program supports NASA missions and/or NASA's strategic goals.

Starting in 2016, NASA set aside 1/3 of its allocation for Key Strategic Mission Support programs (KSMS). These programs were required to demonstrate a critical need for ground-based data in direct support of an on-going or a future space mission. In the 2016A semester, NASA selected three KSMS projects for a 2 year duration: follow-up of transiting exoplanet candidates found by the K2 mission (Andrew Howard, PI, Hawaii/Caltech, 40 nights over 2 years); calibration

of photometric redshifts for the EUCLID mission using spectroscopic redshifts of over 1,000 galaxies (Dan Stern, JPL, PI, 10 nights over 2 years); and a search for evidence of water and active generation of plumes in support of the Europa Clipper project (Lucas Paganini, U. Catholic/GSFC, PI, 10 nights over 2 years). All three programs come to an end at the completion of the 2017B semester.

In the expectation that NASA's 5-year Cooperative Agreement with William M. Keck Observatory will be renewed for the period 2018-2022, NASA is planning to release a new call for KSMS projects to begin with the 2018A semester. Details of the opportunity and the proposal process will be announced when the 2018A Call for Proposals is released early in August 2017 with non-binding notices of intent due shortly thereafter. All proposals for the 2018A semester will be due on September 14, 2017. A KSMS project is typically multi-semester, spanning 10-60 nights over a time period of up to three years. The KSMS opportunity will be open for all topics/missions in astrophysics and planetary science.

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SPACE SETTLEMENT SYMPOSIUM, CALL FOR ABSTRACTS

The Call for Abstracts is open for the annual Space Settlement Symposium (S3), Austin, TX, USA, Nov. 10-11, 2017. This is part of the New Worlds 2017 Fair and Conference including the Space Cowboy Ball: <http://newworlds2017.space/> [9].

Topics include:

SPACE RESOURCES (Mining the Sky),

SPACE MAKERS (Manufacturing),

HOME SWEET HOME (Habitats),

SPACE HIGHWAYS (Intra-Solar-System Transportation),

BIONEERING (To Survive and Thrive in Space),

FARMERS IN THE SKY (Food and Agriculture in space).

To submit an abstract: <http://newworlds2017.space/s3-2017/> [10].

For more information contact Philip.Metzger@ucf.edu [11].

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SUDBURY FIELD CAMP APPLICATION DEADLINE JUNE 30

The Short Course and Field School at the Sudbury Impact Structure is a week-long classroom and field training program based in Sudbury, Ontario. The goal of the program will be to introduce students to impact cratering processes and observe, in the field, the attributes of an immense basin-size impact structure. Sudbury is known for spectacular shatter cones, tremendously thick melt-bearing impact breccias (the Onaping Formation), and a differentiated impact melt sheet (the Sudbury Igneous Complex). Skills developed during the program should better prepare students for their own thesis studies in impact cratered terrains, whether they be on Earth, the Moon, Mars, or some other solar system planetary surface. This field camp is being organized under the auspices of the [NASA Solar System Exploration Research Virtual Institute](#) [12], which is designed, in part, to train a new generation of explorers for the Moon and beyond. The activity is being led by an SSERVI international partner, the [Canadian Lunar Research Network](#) [13], and coordinated with the LPI-JSC [Center for Lunar Science and Exploration](#) [14].

Please pass this information on to any students who might be interested.

APPLICATION DEADLINE: June 30, 2017

Applications are only accepted using the [online application form](#) [15] found at the LPI's Sudbury Field Camp website: www.lpi.usra.edu/exploration/sudbury/ [16]

Please contact Brittany McNeal (mcneal@lpi.usra.edu [17]) if help is needed during the application process.

Course instruction by Drs. Gordon "Oz" Osinski and David A. Kring.

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CALL FOR EXTERNAL REVIEWERS FOR NASA POSTDOCTORAL PROGRAM (NPP)

The NASA Postdoctoral Program (NPP), managed by USRA, provides young and more senior scientists the opportunity to work on 1 to 3 year assignments with NASA scientists and engineers at NASA centers and institutes to advance NASA's missions in earth science, heliophysics, planetary science, astrophysics, space bioscience, aeronautics, engineering, human exploration and space operations, astrobiology, and science management. USRA is recruiting well-qualified reviewers for upcoming applications.

Reviewers may be asked to review up to 5 applications (each application is 15 pages, including figures and citations; double-spaced). Proposal deadlines are March 1, July 1, and November 1. The reviewer evaluations are submitted online and those who are eligible will receive an honorarium of \$50 for each review submitted.

Reviewers should have the following minimum qualifications: three (3) years past PhD; 10 or more peer-reviewed publications; at least five (5) peer-reviewed publications as first author; work in a field relevant to NASA; and show national and international prominence through awards and invitations to speak at major scientific meetings.

If you are interested in being a reviewer, and create an account, visit:

https://npp.usra.edu/reviewer_connect/ [18]

For additional questions email nppreviews@usra.edu [19].

Feel free to pass this information to colleagues.

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HAYABUSA SAMPLE ANALYSIS OPPORTUNITY

Dear Colleagues,

It's my great pleasure to let you know that ISAS/JAXA has issued the new international announcement of opportunity for Hayabusa-returned sample analysis.

Everybody who intends to gain a new insight in planetary science via Hayabusa sample analysis is welcome to submit a proposal in response to the new AO.

Please find the details of the new AO, including the guidebook for proposers, the list of previously accepted proposals, and the sample catalog that describes the properties of the samples available at the following website:

<http://hayabusaaao.isas.jaxa.jp/5th/> [20]

Proposals are accepted any time. It will take around a month for the selection process.

We are looking forward to accepting exciting proposals from you!

Sincerely,

Toru Yada

Astromaterial Science Research Group (ASRG), ISAS, JAXA

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JOBS, POSITIONS, OPPORTUNITIES

A) SCIENTIFIC PROGRAMMER, PLANETARY DATA SYSTEM

SMALL BODIES NODE

The Small Bodies Node (SBN) of NASA's Planetary Data System, based in the Department of Astronomy at the University of Maryland, College Park, is seeking a programmer with analytic experience who would work with a larger group of planetary scientists and programmers. The ideal candidate will also work closely with programmers at the Minor Planet Center at the Center for Astrophysics, Cambridge, MA, concerned with small body astronomy and orbital calculation. Five years experience is required, including some system administration experience or training, and with some experience either designing or implementing IT security measures in a Linux network environment. A familiarity with relational database management is also desired. A Bachelor's or Master's level degree in computer science or a related field is preferred, but previous work experience will also be considered. Near-term tasks include developing a cross-identification database for all bodies represented in the archive, overseeing the security plan for the SBN, back-end development and user interface development, and reporting to NASA.

For more details and to apply, visit:

<https://jobs.physicstoday.org/jobs/9151374> [21]

To receive full consideration, applications must be submitted by August 25, 2017.

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UPCOMING MEETINGS, WORKSHOPS

A) ACCRETION: BUILDING NEW WORLDS

August 15-18, 2017

Houston, Texas

<https://www.hou.usra.edu/meetings/accretion2017/> [22]

The Accretion Conference will focus on processes that lead to planetary systems,

like our own, with silicate-rich and volatile-rich planetary bodies. These bodies and their subsequent evolutions provide the bases for habitable environments and for the origin of life as we know it. The goal of this topical conference is to integrate the disparate stories of planetary accretion, both physical and chemical, into a consistent (although understandably incomplete) whole.

The Accretion conference will encompass the formation and aggregation of dust and gas to embryos to planets, and include astronomical observations of circumstellar disks, chemical and physical data from the solar system materials (meteorites, etc.), and simulations of physical and chemical processes of accretion. All relevant data and ideas are welcome.

B) ASTROBIOLOGY 2017

November 26-December 1, 2017

Coyhaique, Chile

Find below exciting news for Astrobiology 2017. This conference will take place in the beautiful Chilean Patagonia in Coyhaique (November 26-December 1, 2017).

<http://www.astrobiology2017.org> [23]

EARLY REGISTRATION DEADLINE EXTENDED

To allow for students applying for grants to still make the early registration deadline, the deadline has been extended until June 19, 2017. Please note that other key dates have not changed.

ORAL CONTRIBUTIONS

Oral contributions will be received until July 28, 2017. Please note that a link to the abstract submission form is sent to you after the registration process is completed. The SOC will select oral papers after their review. The notification of acceptance will be sent by August 25, 2017.

TRAINING SCHOOL

A two day training school with lectures on basics of Astrobiology will take place in Santiago during the Friday-Saturday preceding the conference (November 24-25), and it is open to early-career participants. There is no extra cost for participants of the conference but only a maximum of 80 participants can be accommodated. Interested participants of the TS should reserve a seat during registration, Reservations for the training school are on a first come-first served basis, so we urge you to register as soon as possible to secure a place. For more information on the training school, including the program, please click <http://astrobiology2017.org/training-school/> [24].

HOTEL RESERVATIONS

The registration platform also allows you to reserve your hotel room at the discounted rates for Astrobiology 2017. While some hotels are more flexible, the discounted rates for others are guaranteed only until May 30th, 2017, so please, plan accordingly.

INVITED SPEAKERS

We have 26 superb confirmed invited speakers. The updated list can be found at: <http://astrobiology2017.org/speakers/> [25]

FOLLOW US

Pre-register at the bottom of <http://astrobiology2017.org> [26] to receive updated

information and follow us in Twitter and Facebook

<http://twitter.com/astrobio2017> [27]

<http://facebook.com/astrobio2017> [28]

With best regards,

Patricio Rojo (LOC's chair)

C) NEAR-EARTH OBJECTS: PROPERTIES, DETECTION, RESOURCES,
IMPACTS, AND DEFENDING EARTH

14 May - 8 June 2018

Munich, Germany

Dear asteroid aficionado,

From 14 May to 8 June 2018 we will hold a workshop titled "Near-Earth objects: Properties, detection, resources, impacts and defending Earth" within the framework of the Munich Institute for Astro- and Particle Physics (MIAPP), funded by the Munich/Garching Excellence Cluster "Origins and Structure of the Universe. The primary goal is to identify the remaining uncertainties in determining the Earth's impact hazard and how to reduce them.

More information is available at <http://tinyurl.com/MIAPP-2018-NEO-Workshop> [29].

The deadline for expressing your interest in attending is 14 August 2017.
(The website 'Registration' does not require any payment.)

The organising committee:

Andreas Burkert, Camilla Colombo, Robert Jedicke, Detlef Koschny, Richard Wainscoat

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Send submissions to:

Anne Verbiscer, DPS Secretary (dpssec@aaas.org) [30]

To unsubscribe visit <http://aas.org/unsubscribe> [31] or email unsubscribe@aaas.org [32].

To change your address email address@aaas.org [33]

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- [13] <http://clrn.uwo.ca/>
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- [15] <https://www.lpi.usra.edu/nlsi/sudbury/application/index.cfm>
- [16] <http://www.lpi.usra.edu/nlsi/sudbury/>
- [17] <mailto:mcneal@lpi.usra.edu>
- [18] https://npp.usra.edu/reviewer_connect/
- [19] <mailto:nppreviews@usra.edu>
- [20] <http://hayabusao.isas.jaxa.jp/5th/>
- [21] <https://jobs.physicstoday.org/jobs/9151374>

- [22] <https://www.hou.usra.edu/meetings/accretion2017/>
- [23] <http://www.astrobiology2017.org/>
- [24] <http://astrobiology2017.org/training-school/>
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