

## Newsletter 19-05

Issue 19-05, February 6, 2019

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### VIRTUAL SMD TOWN HALL MEETING THURSDAY 2/7/19 AT 2 PM EASTERN

Please join NASA Science Mission Directorate leadership for a virtual community town hall on February 7, 2019 at 2 pm Eastern time. We will provide updates on activities related to the recent government shutdown and return to normal operations.

The town hall will be broadcast via Webex at:

<https://nasaenterprise.webex.com/nasaenterprise/onstage/g.php?MTID=e55d48e0943eab2a401edcbe736e50dc7> [1].

Audio-only participation is available by calling 1-415-527-5035 and providing access code 909 356 091.

For those who cannot join in person, a recording of the town hall will be available on the NASA Science website (<https://science.nasa.gov> [2]) after the meeting concludes.

Questions may be submitted in advance at: <https://arc.cnf.io/sessions/m19e/#!/dashboard> [3].

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## AOGS SESSION PS04: VOLCANISM AND TECTONISM ACROSS THE SOLAR SYSTEM

Dear colleagues,

We are pleased to announce a session for the Asia Oceania Geosciences Society (AOGS 2019) to be held in Singapore in July 28 – August 2, 2019.

<http://www.asiaoceania.org/aogs2019/public.asp?page=home.htm> [4]

The abstract submission deadline is 12 February 2019.

### PS04-SE: Volcanism and Tectonism Across the Solar System

The surfaces of the terrestrial planets and their satellites have been largely shaped through volcanic and tectonic processes. Extreme conditions on outer solar system bodies, such as the Jovian and Saturnian satellites, result in different types of volcanism and tectonism. Fracturing and faulting processes mainly affect minor bodies such as asteroids and small moons, where volcanism and tectonism have not played an important role. We invite contributions that cover a wide range of topics including geomorphology

and composition of volcanic deposits, edifices, and plumes, volcano-induced deformation and edifice growth and collapse to tectonic structures, faulting and fracturing processes, crustal stress and strain analysis, cryovolcanism, and any study related to planetary endogenic processes. Furthermore, studies that relay interactions between planetary interiors, surfaces, and atmospheres are welcomed. Comparative studies of volcanic or tectonic systems on Earth with a strong remote sensing component are encouraged.

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Hope to see you there!

The Conveners:

Dr Anezina Solomonidou (European Space Agency (ESA) ESAC, Spain)  
Dr Rosaly Lopes (Jet Propulsion Laboratory, California Institute of Technology,

United States)

Dr Florian M. Schwandner (Jet Propulsion Laboratory, California Institute of

Technology, United States)

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**AGS SESSION PS05: CASSINI'S LEGACY: SCIENCE HIGHLIGHTS AND DISCOVERIES AT SATURN**

Dear Colleagues,

I would like to remind you to a Cassini-focused session (see below) at the 2019 Asia Oceania Geosciences Society (AOGS) meeting, which will be held from 28 July to 2 August 2019 in Singapore. The abstract submission window is from November 20, 2018 thru February 12, 2019.

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Instructions can be found here:

<http://www.asiaoceania.org/aogs2019/public.asp?page=abstract.htm> [5]

## PS05: Cassini's Legacy: Science Highlights and Discoveries at Saturn

### Session Summary:

The Cassini-Huygens Mission to Saturn ended in a dramatic plunge into Saturn's atmosphere on September 15, 2017 sending back in-situ data as long as possible. Since 2004, Cassini and the Huygens probe revealed the entire Saturn system and opened up new Ocean Worlds for further exploration. In its final 9 months Cassini's 20 Ring-Grazing orbits brought it just outside the rings followed by a series of 22 highly inclined "Grand Finale" orbits with closest approach between the innermost D ring and Saturn's upper atmosphere. The final 22 orbits enabled the opportunity for unique science observations including: probing of gravitational and magnetic field moments to higher order and precision; determining the ring mass; in-situ sampling of the plasma environment, upper atmosphere and exosphere; and imaging both Saturn and rings at high resolution. Data obtained on these orbits have led to surprising results. We propose a multi-disciplinary session to report on analysis and modeling of data collected during this once-in-a-lifetime opportunity to explore Saturn up close in addition to highlighting the legacy of discoveries of the Saturn system made over thirteen years of exploration.

### Conveners:

Scott Edgington, Sushil Atreya, Athena Coustenis, Wing-Huen Ip, Norbert Krupp

We look forward to hear about your latest Cassini research.

Best regards,

Scott, Sushil, Athena, Wing, and Norbert

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**AGS SESSION PS14: SMALL BODY EXPLORATIONS BY CURRENT AND FUTURE MISSIONS**

Abstract deadline: February 12, 2019

This session welcomes abstracts about the new results of solar system small bodies from past and ongoing exploration missions, and about the development and concepts of future missions. We also welcome abstracts about the related ground-based observations, laboratory experiments, as well as theoretical studies. Abstracts reporting the new results from Dawn, New Horizons, Hayabusa2 and OSIRIS-REx missions are especially welcome. In the context of the recent wave of small body exploration missions, as well as the future missions currently under development and/or consideration by NASA, ESA, JAXA, China, etc., this session is designed to promote the research of solar system small bodies from the past and current missions and to help develop concepts for future missions.

Conveners: Jian-Yang Li (PSI), Jiangchuan Huang (CAST),  
Yangting Lin (IGPP/CAS), Makoto Yoshikawa (JAXA)

<http://www.asiaoceania.org/aogs2019/public.asp?page=abstract.htm> [5]

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**GORDON CONFERENCE ON ORIGINS OF SOLAR SYSTEMS: METEORITICAL, SPACECRAFT AND ASTROPHYSICAL PERSPECTIVES ON THE ASSEMBLY AND COMPOSITION OF PLANETS**

June 23-28, 2019; Mount Holyoke College

The Gordon Research Conference on Origins of Solar Systems brings together a diverse group of scientists to discuss research at the frontier of understanding how planets and planetary systems form. Invited speakers from the fields of astronomy, astrophysics, cosmochemistry, and planetary science will present their latest findings. A particular focus at this meeting will be the latest results from the Hayabusa2, Osiris-Rex, and New Horizons missions to primitive solar system bodies, exoplanet results from the TESS space telescope, and results from ground-based astronomical facilities like the Atacama Large Millimeter Array. Discussions will include how theory, spacecraft and astronomical observations, and meteoritic analyses provide complementary constraints on a range of topics, including the birth environment of the Solar System, how gas and dust may rapidly be converted into planetary bodies in disks, the origin and evolution of carbon and other volatiles in disks and the diversity of planetary system architectures and compositions in the Galaxy. The 2019 meeting will continue the tradition of past meetings by promoting cross-disciplinary conversations, and invites all attendees to present posters on their latest work. Support for early career researchers will be available.

Please see <https://www.grc.org/origins-of-solar-systems-conference/2019> [6]

to register and for more information and

<https://www.grc.org/origins-of-solar-systems-grs-conference/2019/> [7]

for the related Gordon Research Seminar for graduate students and postdocs.

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SAVE THE DATE! GORDON CONFERENCE ON THE ORIGINS OF LIFE

The Gordon Research Conference (GRC) and Gordon Research Seminar

(GRS) on the Origins of Life will take place on

January 18 - 19, 2020 (GRS) and January 19 - 24, 2020 (GRC)

at Hotel Galvez in Galveston, TX, USA.

Investigators who have interest in any areas related to the studies of the origins of life, including but not limited to astrochemistry, evolutionary biology, geology, physics, computational science, are welcome and encouraged to apply.

Details about the conference and application information can be found at

<https://www.grc.org/origins-of-life-conference/2020/> [8]

See you there!

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#### OPAG MEETING ANNOUNCEMENT UPDATE

The Spring OPAG Meeting is scheduled and confirmed for April 23-24, 2019, in Washington, DC., NASA HQ, Webb Auditorium. Additional details will be provided on the website as they become available.

See: <https://www.lpi.usra.edu/opag/meetings/upcoming/> [9]

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#### NOAO ASTRO2020 SCIENCE WHITE PAPER COORDINATION HUB

Dear colleague -

To help you develop and share your Science White Papers for the 2020 Decadal Survey, NOAO has created a community coordination hub:

<https://www.noao.edu/astro2020hub/> [10]

where you can submit topics for potential white papers, review topics suggested by others, post comments, find other people with similar interests who may want to collaborate on white papers, and give links to completed white papers.

NOAO has a particular interest in topics for which ground-based optical-infrared (OIR) capabilities may be relevant, but this hub is open to submissions in any area of astronomy and astrophysics. We hope that you will find it useful, and we encourage you to post your white paper ideas soon, well in advance of the 11 March submission deadline, in order to facilitate potential opportunities for collaboration and coordination.

Yours sincerely,

Mark Dickinson & Joan Najita (NOAO)

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THE DPS COMMITTEE REMINDS YOU TO VOTE IN THE AAS ELECTIONS

Don't forget to vote in AAS elections. The DPS is the largest AAS division.

The following DPS members are candidates for AAS Officers and At-Large Trustees:

President - Chick Woodward



Vice President - Stephen Unwin

Secretary - Alice K.B. Monet

At-Large Trustee - Hannah Jang-Condell

Balloting closes at 11:59 pm EST on 8 February 2019

<https://aas.org/posts/news/2018/12/vote-2019-aas-election> [11]

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### JOBS, POSITIONS, OPPORTUNITIES

#### A) TENURED GEOLOGY & GEOPHYSICS DEPARTMENTAL CHAIR AT LSU

The Department of Geology and Geophysics, on the live-oak lined campus of Louisiana State University in Baton Rouge seeks a research-oriented geologist to serve as the chair. Go to:

<https://www.lsu.edu/science/geology> [12]

This is an opportunity for a scholar, appointed at the full professor level or with equivalent experience, in the field of geosciences to lead the demographically and topically diverse research community that comprises our department.

We need a chair person with administrative expertise, leadership history, and research productivity. Responsibilities include planning and administering graduate and undergraduate academic programs in Geology and Geophysics, fostering a promising strategic vision and establishing new initiatives with the faculty (e.g., including an emerging planetary initiative to explore Mars and beyond under College

of Science aegis). The chair will also guide promotion and tenure, teach courses at a reduced load, maintain an externally funded research program, and coordinate fundraising with the LSU Foundation to maintain and enhance our strong historic ties with energy and environmental industries. The position reports to the Dean of the College of Science, Dr. Cynthia Peterson.

To apply go to:

[https://lsu.wd1.myworkdayjobs.com/LSU/job/LSU-Baton-Rouge/Department-Chair-of-Geology-and-Geophysics\\_R00029477](https://lsu.wd1.myworkdayjobs.com/LSU/job/LSU-Baton-Rouge/Department-Chair-of-Geology-and-Geophysics_R00029477) [13]

Completed applications will be reviewed on March 1, 2019.

#### B) RESEARCH PROFESSOR IN PLANETARY PROCESSES AND GLOBAL CHANGES

Research professor in planetary processes and global changes documented using geochemistry and state of the art analytical instrumentation, with the group Analytical-Environmental-Geo-Chemistry at the Vrije Universiteit Brussel, Brussels, Belgium.

Application deadline is March 25, 2019. Question contact Ph. Claeys ([phclaeys@vub.be](mailto:phclaeys@vub.be) [14]). For more info and application procedure:

<https://vub.talentfinder.be/en/vacature/35094/r-d-2018-017--senioracademic-staff--100--basic-natural-and-applied-sciences--planetaryprocesses-and-global-environmental-ch/> [15]

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Send submissions to:

Anne Verbiscer, DPS Secretary ([dpssec@aaas.org](mailto:dpssec@aaas.org) [16])

You are receiving this email because you are a DPS member.

To unsubscribe or update your information, please send your request

to [privacy@aaas.org](mailto:privacy@aaas.org) [17]. The more general AAS privacy policy is available

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

issues of the DPS Newsletter can be found at <https://dps.aas.org/newsletters> [19]

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### Links:

[1] <https://nasaenterprise.webex.com/nasaenterprise/onstage/g.php?MTID=e55d48e0943eab2a401edcb e736e50dc7>

[2] <https://science.nasa.gov/>

[3] <https://arc.cnf.io/sessions/m19e/#!/dashboard>

[4] <http://www.asiaoceania.org/aogs2019/public.asp?page=home.htm>

[5] <http://www.asiaoceania.org/aogs2019/public.asp?page=abstract.htm>

[6] <https://www.grc.org/origins-of-solar-systems-conference/2019>

[7] <https://www.grc.org/origins-of-solar-systems-grs-conference/2019/>

[8] <https://www.grc.org/origins-of-life-conference/2020/>

[9] <https://www.lpi.usra.edu/opag/meetings/upcoming/>

[10] <https://www.noao.edu/astro2020hub/>

[11] <https://aaas.org/posts/news/2018/12/vote-2019-aas-election>

[12] <https://www.lsu.edu/science/geology>

[13] <https://lsu.wd1.myworkdayjobs.com/LSU/job/LSU-Baton-Rouge/Department->

[14] <mailto:phclaeys@vub.be>

[15] <https://vub.talentfinder.be/en/vacature/35094/r-d-2018-017-->

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

[17] <mailto:privacy@aa.s.org>

[18] <https://aa.s.org/about/policies/privacy-policy>

[19] <https://dps.aas.org/newsletters>