

# Newsletter 18-17

Issue 18-17, May 6, 2018

+-----CONTENTS-----+

1. DPS ELECTIONS 2018: CANDIDATE SLATE
2. LUNAR AND SMALL BODIES GRADUATE CONFERENCE 2018 - FINAL CALL FOR ABSTRACTS - SUBMISSION DEADLINE: MAY 11, 2018
3. THE SCIENCE AND EVOLUTION OF GEMINI OBSERVATORY 2018 CONFERENCE ABSTRACT DEADLINE, MAY 15
4. EPSC SESSION: LUNAR VOLATILES
5. EPSC SESSION: OCEAN WORLDS AND ICY MOONS (OPS3)
6. EUROPEAN PLANETARY SCIENCE CONGRESS 2018 SESSION ON PLANETARY AERONOMY
7. EUROPEAN GEOSCIENCES UNION (EGU) AWARDS AND MEDALS PROGRAMME
8. TUNGUSKA IMPACT REVISITED
9. MEPAG MEETING 36 PRESENTATIONS, SUMMARY, AND FINDINGS ARE POSTED

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## DPS ELECTIONS 2018: CANDIDATE SLATE

The DPS Nominating Subcommittee has identified the following candidates for the 2018 DPS elections for Vice Chair and Committee :

Vice-Chair (1 to be elected):

- o Matija Cuk, SETI Institute
- o Amanda Hendrix, Planetary Science Institute

Committee (2 to be elected):

- o Michael Bland
- o Will Grundy, Lowell Observatory

- o Lucille Le Corre, Planetary Science Institute
- o Krista Soderlund, University of Texas, Austin

Additional candidates, supported by a petition of at least 20 DPS members, may be nominated by May 15th. Please send any nominations to the DPS Secretary, Anne Verbiscer, at [dpssec@aaas.org](mailto:dpssec@aaas.org) [1].

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### LUNAR AND SMALL BODIES GRADUATE CONFERENCE 2018 -

FINAL CALL FOR ABSTRACTS - SUBMISSION DEADLINE: MAY 11, 2018

The 8th Annual Lunar and Small Bodies Graduate Conference (LunGradCon 2018) will be held on Monday, June 25, 2018 at the NASA Ames Research Center, preceding the NASA Exploration Science Forum (ESF, June 26-28). With the expanded interests of the Solar System Exploration Research Virtual Institute (SSERVI), the scope of this year's LunGradCon includes both lunar and small body science. LunGradCon provides an opportunity for grad students and early-career postdocs to present their research on lunar and small body science in a low-stress, friendly environment, being critiqued only by their peers. In addition to oral presentations, the conference presents opportunities for professional development and networking with fellow grad students and postdocs, as well as senior members of SSERVI. A limited amount of funding will be provided for travel and lodging costs. The deadline for LunGradCon registration and abstract submission is May 11, 2018, 11:59 PM PDT.

For more details, please visit:

<http://impact.colorado.edu/lungradcon/2018/> [2]

or email any questions to: [lungradcon@gmail.com](mailto:lungradcon@gmail.com) [3]

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THE SCIENCE AND EVOLUTION OF GEMINI OBSERVATORY 2018 CONFERENCE  
ABSTRACT DEADLINE, MAY 15

The Science and Evolution of Gemini Observatory 2018 conference (<https://www.gemini.edu/seg2018> [4]) invites the Gemini community to review recent science highlights, identify needs in the context of Gemini's evolving capabilities, and develop strategies for the future. Additionally there will be workshops on data reduction, speed collaboration, and "Under the Hood" sessions from successful Large and Long Programs. Rooms at the conference rate are going quickly.

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EPSC SESSION: LUNAR VOLATILES

European Planetary Science Congress (EPSC) 2018  
Berlin, Germany  
16-21 September 2018

Abstracts submission is now open to Session LSE5

Lunar Volcanism

Deadline: 16 May 2018, 13:00 CEST

Please visit:

<https://meetingorganizer.copernicus.org/EPSC2018/session/29984> [5]

The abundance, distribution, history and transport of volatiles on the

Moon are important topics for Lunar science and exploration. Several missions have been flown or are being planned to address questions related to Lunar volatiles. This session would invite presentations related to the advancement in understanding of volatiles on the Moon through data analysis, modeling, and laboratory studies as well as plans for the future.

Co-conveners: K. Mandt, G. W. Patterson, O. Mousis, E. Sefton-Nash

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EPSC SESSION: OCEAN WORLDS AND ICY MOONS (OPS3)

European Planetary Science Congress (EPSC) 2018

Berlin, Germany

16-21 September 2018

Deadline: 16 May 2018, 13:00 CEST

<https://www.epsc2018.eu/home.html> [6]

This session will deal with icy moons in the outer solar system with potential liquid oceans underneath or, in Titan's case, on their surfaces. Focus is on the Jovian and Saturnian satellites and the future missions to explore them. This session will aim to present new and review papers on the current status of astrobiological knowledge about the worlds in the outer solar system with possible subsurface liquid water oceans.

Looking forward to meet you in Berlin!

Co-conveners: A. Hayes, J. Lebreton, O. Witasse,, A. Coustenis, E. Turtle, F. Tosi

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EUROPEAN PLANETARY SCIENCE CONGRESS 2018 SESSION ON PLANETARY AERONOMY

We invite your contributions to a special session on Planetary Aeronomy at EPSC  
2018 in Berlin, Germany (September 16-21, 2018):

<https://meetingorganizer.copernicus.org/EPSC2018/session/29889> [7]

The aim of this session is to bring together researchers studying solar system and exoplanet upper atmospheres to exchange knowledge and ideas while learning of new results in this expanding area of research. We welcome papers on all aspects of planetary upper atmospheres in the solar and exoplanet systems, including observations and models that bear on photochemistry and ionization, magnetosphere-ionosphere coupling, energy balance, circulation and atmospheric escape. Contributions that allow us to better understand planetary evolution and the mass-radius diagram of exoplanets are also encouraged.

Please submit your abstracts by the EPSC abstract deadline of Wednesday, May 16, 2018.

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EUROPEAN GEOSCIENCES UNION (EGU) AWARDS AND MEDALS PROGRAMME

I would like to draw your attention to the Awards & Medals programme  
of the European Geosciences Union (EGU) for the year 2019, especially

the Cassini medal which is one of the three most prestigious awards made by the Union. It honors scientists who have achieved exceptional international standing in planetary and space sciences, defined in their widest senses, for their merit and their scientific achievements.

The EGU Awards and Medals programme for the year 2019 is open for nominations:

<https://www.egu.eu/awards-medals/> [8]

The final deadline for submissions is 15 June, 2018.

For more information on proposing candidates and on the selection process,

please see:

<https://www.egu.eu/awards-medals/proposal-and-selection-of-candidates/> [9]

The awards will be presented at the EGU General Assembly 2019

(07 - 12 April) in Vienna.

Nominations for all the Medals and Awards should be submitted on-line:

<https://www.egu.eu/login/?next=/user-area/nominations/form/> [10]

Before submitting a nomination, please take a look at the EGU checklist to

make sure your nomination and supporting documents satisfy the EGU

requirements:

<https://www.egu.eu/awards-medals/checklist-for-submitting-nominations/> [11]

Last year we had no nominations for the Cassini medal! Please consider

nominating your colleague(s) for this honor.

Jonathan I. Lunine

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## TUNGUSKA IMPACT REVISITED

Call for Papers: ICARUS Special Section on the 1908 Tunguska Impact

## Introduction

The DPS is a Division of the



The 1908 cosmic impact in the Tunguska region of Siberia has intrigued the public and puzzled scientists for more than a century. This event has generally been attributed to the airburst impact of either a comet or a stony asteroid. Unfortunately, no fragments of the exploding object have been recovered, and the first scientific survey was not carried out until two decades after the event. The data consist primarily of the distribution of fallen and burned trees and the topography at the site, a handful of eye witness accounts mostly from tens of kilometers (or greater) distance, seismic records, an atmospheric pressure wave that was measured around the world, and an atmospheric phenomenon called light (or white) nights that persisted for several nights in northern Europe.

Now is a good time to re-examine Tunguska. In the twentieth century, it was the only known case of extensive damage from a cosmic impact (estimated energy between 3 and 20 Megatons). In 2013, however, the Chelyabinsk bolide provided much more quantitative information on a destructive airburst, although with energy at least an order of magnitude less than Tunguska. The Chelyabinsk airburst has been extensively studied, and models are able to reproduce most aspects of this event. The insights and computational tools developed to understand Chelyabinsk can now be applied to Tunguska. In addition to their scientific interest, these airbursts provide valuable information for those planning planetary defense against asteroid impacts.

In January 2018, a workshop at NASA Ames Research Center brought together approximately 50 experts on impact airbursts to re-examine the Tunguska event in the light of recent work on Chelyabinsk and other bolides. Papers presented at this workshop, as well as other current work on Tunguska, are solicited for this

special section of ICARUS.

#### Submission Format:

The submitted papers must be written in English and describe original research which is not published nor currently under review by other journals or conferences.

Author guidelines for preparation of manuscript can be found at

<https://www.elsevier.com/journals/icarus/0019-1035/guide-for-authors> [12]

For more information, please contact the editorial office at [icarus@astro.cornell.edu](mailto:icarus@astro.cornell.edu) [13].

Pre-submission questions regarding topics of interest can also be directed to the

#### Guest Editors:

David Morrison, NASA Ames Research Center [david.morrison@nasa.gov](mailto:david.morrison@nasa.gov) [14]

Darrel K. Robertson, NASA Ames Research Center [darrel.k.robertson@nasa.gov](mailto:darrel.k.robertson@nasa.gov) [15]

#### Important Dates:

Deadline for paper submission: July 1, 2018

Reviewing process completed: January 1, 2019

Production completed: March 1, 2019

#### Submission Guidelines:

Manuscripts and any supplementary material should be submitted through the EVISE e-learning platform. The authors must select “Special Issue: Tunguska” when they reach the “Article Type” step in the submission process. The EVISE website is located at <https://www.evise.com/profile/#/ICARUS/> [16]

Please feel free to suggest possible reviewers for your paper. Submitted manuscripts will go through the standard review process, and there is no guarantee that a given paper will be accepted for publication. ICARUS has no page charges, but does charge for color art.

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MEPAG MEETING 36 PRESENTATIONS, SUMMARY, AND FINDINGS ARE POSTED

Thank you to all who attended MEPAG Meeting 36! This meeting was held Tuesday-Thursday, April 3-5, 2018, at the Crystal City Marriott at Reagan National Airport, in Arlington, VA. A total of 135 people attended in-person, and there were nearly 100 unique Adobe Connect logins each day.

Nearly all meeting presentations have been added to the meeting webpage:

<https://mepag.jpl.nasa.gov/meetings.cfm?expand=m36> [17]

The Meeting Summary and Findings have also been finalized and posted. Also available are all forum abstracts and, for some presentations, e-poster files.

Comments or questions, regarding the meeting, the Summary, or future MEPAG activities, can be sent to [MepagMeetingOs@jpl.nasa.gov](mailto:MepagMeetingOs@jpl.nasa.gov) [18]. And we hope you will join us at the virtual meeting(s) that we expect to hold

this summer.

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Send submissions to:

Anne Verbiscer, DPS Secretary ([dpssec@aaas.org](mailto:dpssec@aaas.org)) [1]

To unsubscribe visit <http://aas.org/unsubscribe> [19] or email [unsubscribe@aas.org](mailto:unsubscribe@aas.org) [20].

To change your address email [address@aas.org](mailto:address@aas.org) [21]

## Footer

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### Links:

- [1] <https://mail02.ndc.nasa.gov/owa/redir.aspx?C=HoWNi8LbDSZvTEqbw3714qg4GrzVImiw7KP-GV4Wa4eveLEv7PVCA..&URL=mailto%3adpssec%40aas.org>
- [2] <https://mail02.ndc.nasa.gov/owa/redir.aspx?C=n99KJeiYVkidlvOju5rjyLRQ5J27sdZSv6QtO-vKlbYeveLEv7PVCA..&URL=http%3a%2f%2fimpact.colorado.edu%2flungradcon%2f2018%2f>
- [3] <https://mail02.ndc.nasa.gov/owa/redir.aspx?C=71ATXUCJcJynRjaRuSUIYK857qepbc8QJY6KhXHYLiseveLEv7PVCA..&URL=mailto%3alungradcon%40gmail.com>
- [4] [https://mail02.ndc.nasa.gov/owa/redir.aspx?C=tGtt4P2fUuXyhj\\_uf8MP-19p8CU5b9skaZLI0NdEHUoeeveLEv7PVCA..&URL=https%3a%2f%2fwww.gemini.edu%2fseg2018](https://mail02.ndc.nasa.gov/owa/redir.aspx?C=tGtt4P2fUuXyhj_uf8MP-19p8CU5b9skaZLI0NdEHUoeeveLEv7PVCA..&URL=https%3a%2f%2fwww.gemini.edu%2fseg2018)
- [5] <https://mail02.ndc.nasa.gov/owa/redir.aspx?C=3J84NZsgffieFn-tPQgxEZE2we7NmkmBhkX-VI240geveLEv7PVCA..&URL=https%3a%2f%2fmeetingorganizer.copernicus.org%2fEPSC2018%2fsession%2f29984>
- [6] <https://mail02.ndc.nasa.gov/owa/redir.aspx?C=T-3Tx5qzsqT8FXhdPyXgmz3NQn07OJCpovjXwXAwINMeeveLEv7PVCA..&URL=https%3a%2f%2fwww.epsc2018.eu%2fhome.html>
- [7] [https://mail02.ndc.nasa.gov/owa/redir.aspx?C=-E1NvF2jGEMrO4Wejtn\\_IK73dC4F8k6741sNFcgI59geveLEv7PVCA..&URL=https%3a%2f%2fmeetingorganizer.copernicus.org%2fEPSC2018%2fsession%2f29889](https://mail02.ndc.nasa.gov/owa/redir.aspx?C=-E1NvF2jGEMrO4Wejtn_IK73dC4F8k6741sNFcgI59geveLEv7PVCA..&URL=https%3a%2f%2fmeetingorganizer.copernicus.org%2fEPSC2018%2fsession%2f29889)
- [8] [https://mail02.ndc.nasa.gov/owa/redir.aspx?C=VsPbQg0Ijv6\\_owM-93bh1NFuZpuUpef19obrGbCWjg0eeveLEv7PVCA..&URL=https%3a%2f%2fwww.egu.eu%2fawards-medals%2f](https://mail02.ndc.nasa.gov/owa/redir.aspx?C=VsPbQg0Ijv6_owM-93bh1NFuZpuUpef19obrGbCWjg0eeveLEv7PVCA..&URL=https%3a%2f%2fwww.egu.eu%2fawards-medals%2f)
- [9] [https://mail02.ndc.nasa.gov/owa/redir.aspx?C=y1KprwXvtz0mNKH5pvjkgfGdf\\_jTS10VhD4Tt7GmDII8eeveLEv7PVCA..&URL=https%3a%2f%2fwww.egu.eu%2fawards-medals%2fproposal-and-selection-of-candidates%2f](https://mail02.ndc.nasa.gov/owa/redir.aspx?C=y1KprwXvtz0mNKH5pvjkgfGdf_jTS10VhD4Tt7GmDII8eeveLEv7PVCA..&URL=https%3a%2f%2fwww.egu.eu%2fawards-medals%2fproposal-and-selection-of-candidates%2f)
- [10] <https://mail02.ndc.nasa.gov/owa/redir.aspx?C=toJncds-BEYzccaBtQ6BRZA5KjCCct1yaFkCRtbtSleeveLEv7PVCA..&URL=https%3a%2f%2fwww.egu.eu%2flogin%2f%3fnext%3d%2fuser-area%2fnominations%2fform%2f>

- [11] [https://mail02.ndc.nasa.gov/owa/redir.aspx?C=mirsXjIn\\_AAaKcohj1hs-IM9gK-wLyYqyNMK5Jep688eveLEv7PVCA..&URL=https%3a%2f%2fwww.egu.eu%2fawards-medals%2fchecklist-for-submitting-nominations%2f](https://mail02.ndc.nasa.gov/owa/redir.aspx?C=mirsXjIn_AAaKcohj1hs-IM9gK-wLyYqyNMK5Jep688eveLEv7PVCA..&URL=https%3a%2f%2fwww.egu.eu%2fawards-medals%2fchecklist-for-submitting-nominations%2f)
- [12] <https://mail02.ndc.nasa.gov/owa/redir.aspx?C=RW3kdMHf9KjxczUpWT4j2xj3M0Dn83tHjEjfglrG6JoeveLEv7PVCA..&URL=https%3a%2f%2fwww.elsevier.com%2fjournals%2ficarus%2f0019-1035%2fguide-for-authors>
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- [14] <https://mail02.ndc.nasa.gov/owa/redir.aspx?C=yhbJvpVdr2QlXpO8F58s1ebrpRm6RZkGwvJx6DOcj-UeveLEv7PVCA..&URL=mailto%3adavid.morrison%40nasa.gov>
- [15] [https://mail02.ndc.nasa.gov/owa/redir.aspx?C=D7TJCLz6KilO1csVdHUefW\\_01jBzLaA076vOp0I0R-UeveLEv7PVCA..&URL=mailto%3adarrel.k.robertson%40nasa.gov](https://mail02.ndc.nasa.gov/owa/redir.aspx?C=D7TJCLz6KilO1csVdHUefW_01jBzLaA076vOp0I0R-UeveLEv7PVCA..&URL=mailto%3adarrel.k.robertson%40nasa.gov)
- [16] <https://mail02.ndc.nasa.gov/owa/redir.aspx?C=bo81SITDopv8BM2awnKd2ZSNLoYF3d276PdRt6FsmtAeveLEv7PVCA..&URL=https%3a%2f%2fwww.evis.com%2fprofile%2f%23%2ficarus%2f>
- [17] <https://mail02.ndc.nasa.gov/owa/redir.aspx?C=vnCVdgpok8Rn1Le8Vc9h09X3kaZOEEXEwVoOszmh-UQeveLEv7PVCA..&URL=https%3a%2f%2fmepag.jpl.nasa.gov%2fmeetings.cfm%3fexpand%3dm36>
- [18] [https://mail02.ndc.nasa.gov/owa/redir.aspx?C=bCmSLAcga7hs8VpiTsiMUMFaf-hwd22o4f5\\_YX2YBcveLEv7PVCA..&URL=mailto%3aMepagMeetingQs%40jpl.nasa.gov](https://mail02.ndc.nasa.gov/owa/redir.aspx?C=bCmSLAcga7hs8VpiTsiMUMFaf-hwd22o4f5_YX2YBcveLEv7PVCA..&URL=mailto%3aMepagMeetingQs%40jpl.nasa.gov)
- [19] <https://mail02.ndc.nasa.gov/owa/redir.aspx?C=dCEdwD5WMeAGwTQSUdbQWbZqHwXBn2jZsBNY-iWM8KkeveLEv7PVCA..&URL=http%3a%2f%2faas.org%2funsubscribe>
- [20] <https://mail02.ndc.nasa.gov/owa/redir.aspx?C=l4tp1SbXQIQQB5lwQwAYnODOVx0mtrvskcPCgqqs4JQeveLEv7PVCA..&URL=mailto%3aunsubscribe%40aas.org>
- [21] [https://mail02.ndc.nasa.gov/owa/redir.aspx?C=DioOMbG8C19qwu6TDuplQWDQQo3KZh\\_qNoTlWXQO7QeveLEv7PVCA..&URL=mailto%3aaddress%40aas.org](https://mail02.ndc.nasa.gov/owa/redir.aspx?C=DioOMbG8C19qwu6TDuplQWDQQo3KZh_qNoTlWXQO7QeveLEv7PVCA..&URL=mailto%3aaddress%40aas.org)