

Newsletter 20-29

Issue 20-29, June 27, 2020

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MESSAGE FROM THE CHAIR: DPS 2020 MEETING UPDATE

The DPS Committee is considering the format of the 52nd Annual DPS meeting, to take place Oct. 25-30. We will be in touch with the membership as soon as a decision is final. In the meantime, the June 30 deadline for workshop proposals and the July 12 deadline for Hartmann travel grants are extended indefinitely.

Amanda Hendrix
DPS Chair

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REMINDER: DPS EDUCATION AND OUTREACH GRANTS - 1ST DEADLINE ON JULY 1

The DPS Committee is offering small grants (average amounts of \$200 to \$500) to support DPS members to engage in local and virtual education and public engagement activities. These grants are intended to support DPS member efforts to engage other members, students, teachers, and the public and can be used for materials, consumables, equipment but not for salary or travel to DPS meetings. Proposals are being accepted for programs that will occur by June 1, 2021. We encourage creative solutions for engagement efforts that also conform to social-distancing requirements. If you have a question about what constitutes an acceptable cost, please contact the DPS Education and Outreach Officer, Sanlyn Buxner, buxner@psi.edu [1]. Proposals should be emailed to buxner@psi.edu [1] and you will receive an email confirmation.

Applications will be accepted in two review cycles - the first deadline is July 1st (11:59pm in proposers' local time), and awardees will be contacted by July 15th. The second deadline will be August 1st, and awardees will be contacted by August 15th. All proposals will be reviewed by members of the DPS education committee and the executive committee.

Complete directions, including a scoring rubric, can be found at <https://dps.aas.org/education/education-outreach-grants/application> [2]

Please address any questions to buxner@psi.edu [1].

Sanlyn Buxner (Education and Public Outreach Officer) and
Brian Jackson (Deputy Education and Public Outreach Officer)

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DECADAL SURVEY ON PLANETARY SCIENCE AND ASTROBIOLOGY WEBINAR:
PERSPECTIVES AND LESSONS LEARNED: DECADAL SURVEYS IN SPACE SCIENCE

Thursday, July 2 at 1:30 - 3:00PM ET

The National Academies' [Decadal Survey on Planetary Science and Astrobiology](#) [3] will assess key scientific questions in planetary science and astrobiology, identify priority medium- and large-class missions and other initiatives, and present a comprehensive research strategy for the 2023-2032 timeframe. Community participation is critical for the success of the survey, and we invite early career professionals to join us for a [webinar on lessons learned from prior decadal surveys](#) [4] on Thursday, July 2, 2020 from 1:30-3pm ET (10:30am-12:00pm PT). During the webinar, past and present chairs of decadal surveys will discuss lessons learned, how decadal surveys are used, and how to get involved in the decadal survey process.

Webinar Speakers

- Waleed Abdalati, University of Colorado, Decadal Survey in Earth Science and Applications from Space
- Dan Baker, University of Colorado, Decadal Survey in Solar and Space Physics
- Robin Canup, Southwest Research Institute, Decadal Survey in Planetary Science and Astrobiology
- Phil Christensen, Arizona State University, Decadal Survey in Planetary Science and Astrobiology
- William Gail, Global Weather Corporation, Decadal Survey in Earth Science and Applications from Space
- Colleen Hartman, National Academies of Sciences, Engineering, and Medicine
- Steve Squyres, Blue Origin, Decadal Survey in Planetary Science

Download the complete agenda on the [event page](#) [5].

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WORLD VIEW MAILING LIST

World View high altitude stratospheric ballooning company (<https://worldview.space/> [6]) is building a researchers mailing list so we can communicate with PIs and others interested in announcements relating to vehicle capabilities, research missions, and other pertinent news. If you would like to join this mailing list, fill out the notification of interest form at <https://world-view-research-education.mailchimpsites.com/> [7] Please share this within your institution and with interested colleagues.

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DRAGONFLY STUDENT AND EARLY CAREER INVESTIGATOR PROGRAM

- Have you dreamed of flying on another world?
- Have you imagined a desert world where the sand dunes are made of the building blocks of life, and it rains methane?
- Are you prepared to be a part of a journey to the most Earth-like and yet alien world in the solar system?

This world is Saturn's moon Titan, and Dragonfly, the mission headed to it, seeks Student & Early Career Investigators.

Eligibility:

- Eligible students must be pursuing a master's or doctoral degree in the physical sciences, computer sciences, or engineering at a U.S. institution
- Demonstrated ability to conduct independent research or development
- Excellent organizational and communication skills (written and oral)
- In addition to identifying a mentor on the Dragonfly team, applicants must identify a faculty member at their home institution who can serve as a faculty mentor for the 2-year duration of their participation in the program
- Eligible applicants must be U.S. citizens.

Application deadline: July 29, 2020

Questions? Email DragonflySEOContact@jhuapl.edu [8] or visit [Dragonfly](#) [9] for more information.

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EPSC 2020 VIRTUAL MEETING: CALL FOR ABSTRACTS DEADLINE EXTENDED TO 30 JUNE

Due to requests for additional time to obtain clearance for payment of the Abstract Processing Fee by some institutions, the abstract submission deadline for EPSC2020 will be extended until Tuesday, 30 June 2020, 13:00 CEST. Please note that this extension will affect the deadlines for the programming of the meeting. The letters of schedule and conference programme will now be published on Friday, 31 July 2020.

Dear Colleagues,

The Europlanet Science Congress (EPSC) 2020, initially planned to be held in Granada, Spain on 27 Sept. - 2 Oct. 2020, will be held as a three-week virtual meeting (21 Sept. - 9 Oct.) as the result of the Covid-19 pandemic.

See https://www.epsc2020.eu/virtual_meeting/overview.html [10] for more details.

We'd like to direct your attention towards the following sessions:

SESSION OPS4: ICY OCEAN WORLDS: PAST AND FUTURE EXPLORATIONS

Conveners: Gabriel Tobie, Carly Howett, Alice Lucchetti, Frank Postberg, Federico Tosi

Session Description: The exploration of the outer solar system by Galileo at Jupiter, Cassini-Huygens at Saturn, and New Horizons at Pluto-Charon, has revealed that several icy worlds harbor a subsurface salty ocean underneath their cold icy surface. By flying through the icy-vapor plume erupting from Enceladus' south pole, Cassini proceeded for the first time to the analysis of fresh materials coming from an extraterrestrial ocean, revealing its astrobiological potentials. Even if there is no direct evidence yet, similar oceanic habitats might also be present within Europa, Ganymede and Titan, which will be characterized by future missions currently under development for the exploration of icy Galilean moons (JUICE, Europa Clipper) and of Saturn's moon Titan (Dragonfly).

Understanding these ocean worlds requires input from a variety of scientific disciplines: planetary geology and geophysics, atmospheric physics, life sciences, magnetospheric environment, space weathering, as well as supporting laboratory studies, numerical simulations, preparatory studies for future missions and technology developments in instrumentation and engineering. We welcome abstracts that span this full breadth of disciplines required for the characterization and future exploration of ice-covered ocean worlds.

The new deadline for abstract submission is *** 30 June 2020, 13:00 CEST ***.
Information on how to submit an abstract can be found at the following
link: https://www.epsc2020.eu/abstract_management/how_to_submit_an_abstract.html [11]

Looking forward to meeting you virtually!

Thanks,
Gabriel, Carly, Alice, Frank, Federico

SESSION SB7: SPACE MISSIONS TO SMALL BODIES: PLANETARY DEFENSE

Conveners: Patrick Michel, Andy Cheng, Julia de Leon, Michael Kueppers, Holger Sierks

Dates: September 21, 2020 - October 9, 2020
Abstracts are due June 30, 2020, 13:00 CEST

<https://meetingorganizer.copernicus.org/EPSC2020/session/38557> [12]

The NASA DART and the ESA Hera missions will allow performing the first complete asteroid deflection test by a kinetic impact, including the full characterization of the target and the impact outcome. The development of these missions is supported by a large number of activities in terms of modeling (impact process, dynamics, physical properties), instrumentation, close proximity operations and data analyses. In parallel, the inventory and spectral properties of Near-Earth Objects from Earth and from space (NEOSM) will progress substantially. This session welcomes contributions related to those fascinating topics.

Please forward this message to your colleagues and in particular to any early career researcher you may know who is working on a relevant topic.

SESSION SB11: PHYSICAL PROPERTIES OF SMALL BODIES: OBSERVATIONS AND TECHNIQUES

Please consider submitting an abstract to the EPSC SESSION SB11: Physical properties of small bodies: observations and techniques virtual meeting September 21 - October, 2020.

Electromagnetic scattering phenomena play a key role in determining the properties of Solar System surfaces based on observations using different techniques and in a variety of wavelengths ranging from the ultraviolet to the radio. This session will promote a general advancement in the exploitation of observational and experimental techniques to characterize radiative transfer in complex particulate media. Abstracts are solicited on progresses in numerical methods to extract relevant information from imagery, photometry, polarimetry and spectroscopy in solid phase, reference laboratory databases, photometric modeling, interpreting features on planetary surfaces, mixing/unmixing methods... Software and web service applications are welcome.

Abstract submission deadline: June 30, 2019, 13:00 CEST
<https://meetingorganizer.copernicus.org/EPSC2020/session/38563> [13]

Virtual meeting info:
https://www.epsc2020.eu/virtual_meeting/overview.html [10]

Conveners: Stéphane Erard, Maria Gritsevich, Karri Muinonen, Antti Penttilä, Frédéric Schmidt

SESSION MITM2: NANO TO MINI SATELLITE AND DEDICATED INSTRUMENTS: A NEW OPPORTUNITY FOR PLANETARY EXPLORATION

EPSC 2020 will be held as a virtual meeting. We would like to draw your attention to the session on "Nano to Mini satellite and dedicated instruments: a new opportunity for planetary exploration." where we are now accepting abstracts.

Link: <https://meetingorganizer.copernicus.org/EPSC2020/session/38420> [14]

Dates: 21 September 2020 - 9 October 2020

Abstract submission deadline: 30 June 13:00 CEST

This session will highlight planetary science and space mission concepts based on small satellites in the class of NanoSat, MiniSat and planetary SmallSats. Recent advances in small platforms make it possible for small satellites, including CubeSats, to be considered as independent or complementary elements in planetary exploration missions, for example the small probes as part of the Hayabusa 2 mission and Hera mission. Presentations on Deep Space Planetary CubeSats, e.g. the small satellites accompanying the new F-class ESA mission Comet Interceptor and those selected or proposed for the NASA SIMPLEX program are welcomed. Concepts for future mission may either be an augmentation to larger missions or as stand-alone missions of their own. We encourage presentations on new Planetary science mission architectures and associated technologies, as well as dedicated instrumentation that can be developed for these applications.

With our best regards

John Robert Brucato, Marilena Amoroso, Patricia Beauchamp, Vincenzo Della Corte, Simone Pirrotta

SESSION OPS3: "PLANET" TITAN

Dear colleagues,

Please consider submitting an abstract to the EPSC session OPS3: "Planet" Titan
This will be a virtual meeting September 21 - October, 2020.

Despite its satellite status, Titan has nothing to envy to planets: it has planetary dimensions, a substantial and dynamic atmosphere, a carbon cycle, a variety of geological features (dunes, lakes, rivers, mountains...), seasons and a hidden ocean. It even now has its own mission: Dragonfly, selected by NASA in the frame of the New Frontiers program.

In this session, scientific presentations are solicited to cover all aspects of current research on Titan: from its interior to its upper atmosphere, using data collected in the frame of the Cassini-Huygens mission (2004-2017) or from ground-based telescopes (e.g., ALMA) or based on modelling and experimental efforts to support the interpretation of past and future observations of this unique world.

Abstract submission deadline: June 30, 2019, 13:00 CEST

<https://meetingorganizer.copernicus.org/EPSC2020/session/3853> [15]8

Virtual meeting info:

https://www.epsc2020.eu/virtual_meeting/overview.html [10]

Convener: Alice Le Gall | Co-conveners: Anezina Solomonidou, Sandrine Vinatier, Giuseppe Mitri, Marco Mastrogiuseppe, Sarah M. Hörst

SESSION TP4: IMPACT PROCESSES IN THE SOLAR SYSTEM

Conveners: Robert Luther, Elena Martellato, Jens Ormö

Co-conveners: Natasha Artemieva, Christopher Hamann, Isabel Herreros, Francisco Javier Rodriguez Tovar

Description: Impact processes shaped the solar system and modify planetary surfaces until today. This session aims at understanding planetary impact processes at all scales in terms of shock metamorphism, dynamical aspects, geochemical consequences, environmental effects and biotic response, and cratering chronology. Naturally, advancing our understanding of impact phenomena requires a multidisciplinary approach, which includes (but it is not limited to) observations of craters, strewn fields or airbursts, numerical modelling, laboratory experiments, geologic and structural mapping, remote sensing, petrographic analysis of impact products, and isotopic and elemental geochemistry analysis.

We welcome presentations across this broad range of study, and particularly encourage work that bridges the gap between the investigative methods employed in studying planetary impact processes at all scales.

Please, use the following link for more information:

<https://meetingorganizer.copernicus.org/EPSC2020/session/38503> [16]

The deadline for the abstract submission is: 30 June 2020, 13:00 CEST.

Please, feel free to forward this e-mail to interested impact science colleagues.

We apologize for any cross-postings. If you have any further questions please email the conveners.

We look forward to see you ... at your computer screen!

Kindest regards,

Robert, Elena, and Jens

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JOBS, POSITIONS, OPPORTUNITIES

A) TWO POSITIONS IN EXPERIMENTAL PLANETARY SCIENCE

Two positions, a PhD and a post-doctoral position, are open for candidates interested in pursuing experimental planetary science at the Institute of Planetology, University of Münster, Germany. The goal is to perform laboratory-based research in order to understand the role of diurnal temperature variation on the evolution of planetary regolith and on their current physical and compositional nature. Laboratory outputs will be linked to measurements of planetary surfaces done remotely or in situ. The preferred start date is in September but some flexibility exists to accommodate developments of the Covid-19 situation.

More information are available at the following links:

PhD position: <http://www.earthworks-jobs.com/planet/wwum20061.html> [17]

PostDoc: <http://www.earthworks-jobs.com/planet/wwum20062.html> [18]

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Send submissions to:

Anne Verbiscer, DPS Secretary (dpssec@aas.org) [19]

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 [20]. The more general AAS privacy policy is available online at <https://aas.org/about/policies/privacy-policy> [21]. Current and back issues of the DPS Newsletter can be found at <https://dps.aas.org/newsletters> [22]

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Links

[1] <mailto:buxner@psi.edu>

[2] https://urldefense.proofpoint.com/v2/url?u=https-3A__dps.aas.org_education_education-2Doutreach-2Dgrants_application&am&d=DwMGaQ&am&c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&am&r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&am&m=KoC-PSLj7neumF_9JnUiWTZbYw_X42S4M8X8EujWIGU&am&s=GwubUi7wYTT93vmjIQGGMDv0nIbHtXfWr8Tm7iJMs8&am&e=

[3] https://urldefense.proofpoint.com/v2/url?u=https-3A__nas.us8.list-2Dmanage.com_track_click-3Fu-3De4e29ee864bd61cfd49438b70-26id-3Dfc20e8e624-26e-3D0db3693028&am&d=DwMGaQ&am&c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&am&r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&am&m=KoC-PSLj7neumF_9JnUiWTZbYw_X42S4M8X8EujWIGU&am&s=Zs9o9cZSdQGDPkWWisHGw5Z4nmBHS05lmlhknBavojY&am&e=

[4] https://urldefense.proofpoint.com/v2/url?u=https-3A__nas.us8.list-2Dmanage.com_track_click-3Fu-3De4e29ee864bd61cfd49438b70-26id-3D62c62fc5c1-26e-3D0db3693028&am&d=DwMGaQ&am&c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&am&r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&am&m=KoC-PSLj7neumF_9JnUiWTZbYw_X42S4M8X8EujWIGU&am&s=H573ZPfQwpk_pOTIeo0rPj padsEYOFvJMrh7sy36rA8&am&e=

[5] https://urldefense.proofpoint.com/v2/url?u=https-3A__www.nationalacademies.org_event_07-2D02-2D2020_planetary-2Dscience-2Dand-2Dastrobiology-2Ddecadal-2Dsurvey-2D2023-2D2032-2Dearly-2Dcareer-2Devent-2D3-2Dperspectives-2Dand-2Dlessons-2Dlearned-2Ddecadal-2Dsurveys-2Din-2Dspace-2Dscience&am&d=DwMGaQ&am&c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&am&r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&am&m=KoC-PSLj7neumF_9JnUiWTZbYw_X42S4M8X8EujWIGU&am&s=32oNyR38QdxP2tynFPJJCTS6FqWax8W1NaSSVcF9wZA&am&e=

[6] https://urldefense.proofpoint.com/v2/url?u=https-3A__worldview.space_&am&d=DwMGaQ&am&c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&am&r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&am&m=KoC-PSLj7neumF_9JnUiWTZbYw_X42S4M8X8EujWIGU&am&s=y-vYSdWyZ2MgABpykGjOjFeCVLUSluqnaDKInfB_vWQ&am&e=

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[8] <mailto:DragonflySEOContact@jhuapl.edu>

- [9] https://urldefense.proofpoint.com/v2/url?u=https-3A__dragonfly.jhuapl.edu_Student-2DOpportunities_-3Ffbclid-3DlWAr1-2DzPMh-2Dxn-5Fj8qguYyv4PoDC0zP3Y-2D-2DThZ21UjI06iT2SxM-2DI6AyXHtrY&d=DwMGaQ&c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&m=KoC-PSLj7neumF_9JnUiWTZbYw_X42S4M8X8EujWIGU&s=wLlvbcjOliPDJOR92-KvOAZXJ-L8p-IBNTiD1z5qB2U&e=
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- [12] https://urldefense.proofpoint.com/v2/url?u=https-3A__meetingorganizer.copernicus.org_EPSC2020_session_38557&d=DwMGaQ&c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&m=KoC-PSLj7neumF_9JnUiWTZbYw_X42S4M8X8EujWIGU&s=JubHs_8i3dj3eUgviG3RddzWdsNkrjKe3hKfHU2Vqpc&e=
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- [18] https://urldefense.proofpoint.com/v2/url?u=http-3A__www.earthworks-2Djobs.com_planet_wwum20062.html&d=DwMGaQ&c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&m=KoC-PSLj7neumF_9JnUiWTZbYw_X42S4M8X8EujWIGU&s=pUQHWPnqelq7Ti55u9DcOKNTvgGoOI5wOPfOPDXBrqE&e=
- [19] <mailto:dpssec@aaas.org>
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