

Newsletter 19-14

Issue 19-14, April 20, 2019

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HARTMANN STUDENT TRAVEL GRANTS FOR DPS/EPSC MEETING

A generous contribution from William K. Hartmann, supplemented by member contributions and matching funds from the DPS Committee, has enabled a limited number of student travel grants to assist participation by early-career scientists at the annual DPS meeting.

Application details are at: <https://dps.aas.org/meetings/hartmann-application> [1]

Travel grants are intended to be supplemental and are primarily intended for students, but post-doctoral scientists without other means of support will also be considered.

THE DUE DATE FOR APPLICATIONS IS APRIL 24 11:59 PM EDT

The DPS Leadership is also soliciting additional contributions from members for the Hartmann Fund. Your tax-deductible gift promotes the careers of our next generation of planetary scientists. You can make a donation here:

<https://tinyurl.com/y6z5gzlt> [2]

Thanks so much for your generosity.

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EPSC/DPS 2019 JOINT MEETING SESSIONS

EX07 : PLANETARY AERONOMY – NEAR AND AFAR

Dear colleagues,

we are organizing the session “Planetary Aeronomy: Near and Afar” as part of the EPSC-DPS Joint Meeting that will take place in Geneva, Switzerland, on 15-20 September 2019. This session brings together experts studying planetary upper atmospheres of both exo- and solar system planets. You can find further information about the meeting and the session through the links:

<https://www.epsc-dps2019.eu/home.html> [3]

<https://meetingorganizer.copernicus.org/EPSC-DPS2019/session/34017> [4]

Invited Speakers will be announced in due course.

Deadline for abstract submission is: 8 May.

Looking forward to seeing you there,

Antonio García Muñoz
Tommi Koskinen
Panayotis Lavvas

EX016 : OCEAN WORLDS AND ICY MOONS



Conveners : C. Howett, S. Fatemi, C. German, C. Hansen, J. Hofgartner,
M. Holmberg, T. Hurford, H. Huybrighs, A. Murray, A. Rhoden, D. Snowden,
A. Solomonidou, J. Spitale, F. Tosi

The set of known and suspected ocean worlds continues to expand, leading to intense interest in their viability as potential habitats that may be or may have been inhabited. Previous missions such as Cassini-Huygens, Galileo and New Horizons provide a major incentive for future exploration of the icy Galilean satellites with Europa Clipper and JUICE. Understanding ocean worlds and preparing for their exploration requires input from a variety of scientific disciplines: planetary geology and geophysics (including active processes, e.g. plumes), atmospheric physics, life sciences, magnetospheric environment, space weathering, as well as supporting laboratory studies, preparatory studies for future missions and technology developments in instrumentation and engineering. We welcome abstracts that span the full breadth of disciplines that apply to the icy moons in the outer Solar System with potential liquid oceans underneath, and their exploration.

OPS1 : ICE GIANT SYSTEMS

Conveners: D. H. Atkinson, O. Mousis, M. Hofstadter, S. Atreya, T. Cavalie,
L. Fletcher, C. Paty, E. P. Turtle

This session welcomes abstracts addressing all aspects of ice-giants systems including the internal structure of the ice giants, the composition, structure, and processes of and within ice-giant atmospheres, ice-giant magnetospheres, satellites, and rings, and the relationship to exoplanetary systems. The session will comprise a combination of solicited and contributed oral and poster presentations on new and continuing studies of the ice-giant systems and the connection of the ice giants to

our current understanding of exoplanetary systems.

We welcome papers that

- Address the current understanding of ice-giant systems, including atmospheres, interiors, magnetospheres, rings, and satellites including Triton;
- Advance our understanding of the ice-giant systems in preparation for future exploration, both remote sensing and in situ;
- Discuss what the ice giants can tell us about solar system formation and evolution leading to a better understanding of the current structure of the solar system and its habitable zone;
- Address outstanding science questions requiring future investigations including from spacecraft, remote sensing, theoretical, and laboratory work necessary to improve our knowledge of the ice giants and their relationship to the gas giants and the solar system;
- Present concepts for missions, instruments, and investigations to make appropriate and useful measurements.

The EPSC-DPS website can be found at <https://www.epsc-dps2019.eu/> [5]

And the outer planet system sessions are listed at

<https://meetingorganizer.copernicus.org/epsc-dps2019/sessionprogramme> [6]

If any further information is needed, please let me know. Thank you!

David Atkinson



OPS2 : SATURN SYSTEM AND THE CASSINI-HUYGENS MISSION

Please consider submitting an abstract to session OPS2 of the EPSC-DPS Joint meeting 2019 which will take place at the Centre International de Conférences de Geneve (CICG) in Geneva, Switzerland on 15-20 September 2019.

<https://www.epsc-dps2019.eu/home.html> [3]

Results related to the Saturnian system from ground-based and Cassini-Huygens mission observations are welcome in OPS2. All aspects of the system (planet, satellites and rings) will be presented, with emphasis on recent findings.

For more information see:

<https://meetingorganizer.copernicus.org/EPSC-DPS2019/abstractsubmission/34116> [7]

Abstract submission deadline : 08 May 2019, 13:00 CEST

Early registration deadline : 31 July 2019

Conveners: A. Coustenis, S. Edgington, F. M. Flasar, A. Masters, C. Plainaki, L. Spilker

SB1 : DYNAMICAL AND PHYSICAL CHARACTERISATION OF SMALL BODIES WITH GAIA AND THE NEW GENERATION OF SURVEYS

This session welcomes abstracts describing results, developments, and perspectives on the discovery or the physical and dynamical characterisation of the small bodies of our solar system using ground

based and space-borne telescopic surveys. Results related to the utilisation of the stellar and solar system objects catalogs published in Gaia DR2 are especially welcomed.

This session invites also abstracts about future Gaia data releases and their perspectives (asteroid mass measurements, the detection of Yarkovsky acceleration on objects, and spin/shape properties from photometry), as well as other future surveys or missions.

The abstract submission deadline is May 8, 2019, 13:00 CEST. Please use the below link to learn more about this session and to submit an abstract:

<https://meetingorganizer.copernicus.org/EPSC-DPS2019/session/34453> [8]

We look forward to a great meeting in Geneva.

The conveners,

Paolo Tanga, Federica Spoto, Joseph Masiero

SB4: PLANETESIMALS: PRIMITIVE AND DIFFERENTIATED SMALL BODIES, INCLUDING VESTA AND CERES AS SEEN BY THE DAWN MISSION

Dear colleagues,

we would like to invite you to submit an abstract for the the next EPSC-DPS joint meeting 2019 (Geneva, Switzerland, 15-20 September, <https://www.epsc-dps2019.eu/> [5])

to the session

SB4: "Planetesimals: primitive and differentiated small bodies, including Vesta and Ceres as seen after the Dawn mission"

This session welcomes contributions addressing asteroid science primarily building on data from the Dawn and other spacecraft missions, along with complementary observations from ground and space telescopic assets. Studies on the composition, geological properties, surface and internal processes of Vesta, Ceres, and other main belt asteroids in general are encouraged. We also foster studies on the formation of planetesimals, their differentiation, and further evolution, including their collisional break-up and creation of families of new generation asteroids. Contributions shedding new light on the processes

driving asteroid accretion, evolution, and the information they bring to early solar system history, are also welcomed. This session aims to provide an update on the state of knowledge of the Main Belt.

The abstract submission deadline is 8 May 2019, 13:00 CEST.

You can submit an abstract by clicking the following link:

<https://meetingorganizer.copernicus.org/EPSC-DPS2019/session/34459> [9]

Looking forward to seeing you in Geneva,

the conveners

Mauro Ciarniello, Julie Castillo, Daniele Fulvio, Simone Ieva, Katharina Otto, Marcel Popescu, Andrea Raponi

SB5 : TRANS-NEPTUNIAN OBJECTS AND THEIR DUST ENVIRONMENT, PLUTO, 2014 MU69, AND CENTAURS

This session welcomes papers about the trans-Neptunian objects and their environment, including investigations of space weathering. We encourage scientific investigations based on both space and Earth-based observations

as well as theoretical and laboratory investigations. Papers based on observations and measurements obtained from within the Kuiper Belt are particularly encouraged including those focusing on 2014 MU69 (a target of the New Horizons mission). We also welcome papers about the Pluto system including investigations of the geology, composition, atmosphere, climate and environment. Papers on processes that may be active in the Pluto system are particularly encouraged and include topics such as formation of organics in Pluto's atmosphere and surface, or seasonal/climatic models of volatile transports. This session will also welcome abstracts devoted to studies of the Centaurs, in particular on their structure, composition, dynamics and activity patterns. We invite studies that describe observations, theory, experimental work, and future spacecraft encounters related to: (i) the onset and provenance of activity beyond Jupiter's orbit, and (ii) the nature of surface modification at these heliocentric distances (including, but not limited to, solar radiation, space weathering and impacts).

The abstract submission deadline is May 8, 2019, 13:00 CEST.

<https://meetingorganizer.copernicus.org/EPSC-DPS2019/session/34462> [10]

Please join us in Geneva, Sept. 15-20 2019, for what is sure to be a great meeting.

Conveners: Kelsi Singer, Maria Teresa Capria, Heather Elliott, Sonia Fornasier, Walter Harris, Rodrigo Leiva, Catherine Olkin, Davide Perna, Simon Porter, Silvia Protopappa, Gal Sarid, Bernard Schmitt, Anne Verbiscer, Laura Woodney

SB8 : LATEST SCIENCE RESULTS IN PLANETARY DEFENCE

Dear Colleagues,

We would like to invite you to send an abstract to Session SB8 "Latest Science Results in Planetary Defence" at the EPSC-DPS Joint Meeting on 15 - 20 September 2019 in Geneva.

Abstracts are invited covering all aspects of planetary defense: Results from space and ground based telescopic data, results from past and ongoing missions that are relevant for planetary defence as well as updates of planned missions that will significantly contribute and enhance the scientific knowledge for the global planetary defence strategy are welcome.

More information about the session and a link to abstract submission can be found on:

<https://meetingorganizer.copernicus.org/EPSC-DPS2019/session/34463> [11]

Deadline is the 8th of May.

Best regards,

The Conveners

SB11 : PLANETARY RING SYSTEMS

Dear Colleagues,

We would like to invite you to send an abstract to Session SB11 "Planetary ring systems" at the EPSC-DPS Joint Meeting on 15 - 20 September 2019 in Geneva, Switzerland.

This session is open for discussions about rings around Jupiter, Saturn, Uranus, Neptune and small outer-solar-system bodies. Theoretical and observational studies

of ring morphology, dynamics, composition, origin, evolution, and interactions with nearby moons are all topics of interest. Contributions reporting on the latest results from the Cassini mission and from TNO and Centaur observations are particularly welcome.

More information about the session and a link to abstract submission can be found on: <https://meetingorganizer.copernicus.org/EPSC-DPS2019/session/34467> [12]

Deadline is the 8th of May 2019.

Best regards, Phillip D. Nicholson, Gianrico Filacchione

TP6: MOON AND OTHER AIRLESS ROCKS

Dear Colleagues,

We would like to invite you to submit an abstract to Session TP6 "Moon and Other Airless Rocks" at the EPSC-DPS Joint Meeting on 15 - 20 September 2019 in Geneva.

Abstracts are invited on any research related to Moon, moons, asteroids, and the interactions of airless rocks with the space environment. Earth's Moon has been our guide to cratering and other processes that affect airless rocks in space. Recent discoveries have shown that the Moon is not what we thought it was, suggesting we ought to re-examine our understanding of processes affecting airless rocky bodies and their surfaces.

More information about the session and a link to abstract submission can be found on: <https://meetingorganizer.copernicus.org/EPSC-DPS2019/session/34055> [13]

Deadline is the 8th of May.

Best regards,
Tim Livengood
Amanda Hendrix

Co-conveners

TP20 : IONOSPHERES OF UNMAGNETIZED BODIES IN THE SOLAR SYSTEM AND THEIR RESPONSES TO SPACE WEATHER ACTIVITY

Dear colleagues,

We would like to encourage you to submit an abstract to our session

TP20: Ionospheres of Unmagnetized Bodies in the Solar System and their responses to space weather activity: Terrestrial Planets and comets for the joint EPSC-DPS conference that will take place in Genève (Switzerland) on 15-20 September 2019.

Please find more details in here:

<https://meetingorganizer.copernicus.org/epsc-dps2019/sessionprogramme> [14]

“Ionospheres are an integral part of planetary atmospheres, being tightly coupled to the neutral atmosphere, exosphere and surrounding plasma environments. Specifically, the ionospheres of unmagnetized (or weakly-magnetized) bodies with substantial atmospheres are controlled not only by solar radiation and neutral atmosphere variations, but also directly impacted by the surrounding plasma environment (e.g. the solar wind for Mars, Venus, Pluto and comets, and the Kronian magnetosphere for Titan) and space weather variability. Understanding how each unmagnetized body reacts to all these factors is a key in comparative aeronomy because although a priori all of them have a general similar behavior, they also have scientifically important differences caused by their different natures. This session focuses on the ionospheres of Mars, Venus, Pluto, Titan, and comets such as 67P/CG, and solicits abstracts concerning remote and in situ data analysis, modeling studies, instrumentation and mission concepts. Topics may include, but are not limited to, day and night side ionospheric variability, sources and influences of ionization, ion-neutral coupling, current systems, comparative ionospheric studies, and solar wind-ionosphere interactions and responses of the ionized and neutral regimes to transient space weather events. Abstracts on general plasma and escape processes are also welcome.”.

** Note that this year this session belongs to the “Terrestrial Planets” block only,
but both terrestrial planets and comet communities are welcome to submit abstracts.

Deadline for abstract submissions: 8 May 2019, 13:00 CEST

Please do not hesitate to forward this message to appropriate persons.

With best wishes,

Beatriz Sanchez-Cano, Christopher Fowler, Xiaohua Fang, Candace Gray,

Pierre Henri, Matteo Crismani

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LUNAR AND SMALL BODIES GRADUATE CONFERENCE 2019 ANNOUNCEMENT

Abstract Submission Deadline: June 21, 2019

ESF Abstract Submission Deadline: April 23, 2019

Registration is now open for the 9th Annual Lunar and Small Bodies Graduate Conference (LunGradCon 2019)

to be held on Monday, July 22, 2019 at the NASA Ames Research Center, preceding the NASA Exploration

Science Forum (ESF, July 23-25). With the expanded interests of the Solar System Exploration Research

Virtual Institute (SSERVI), the scope of 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 June 21, 2019,

11:59 PM PDT. The ESF abstract deadline is April 23rd. LunGradCon attendees are highly encouraged to also

submit abstracts to the ESF.

For more details, please visit:

<http://impact.colorado.edu/lungradcon/2019/> [15]

or email any questions to: lungradcon@gmail.com [16]

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OPAG MEETING AGENDA ANNOUNCED

The OPAG April 23-24, 2019 meeting Agenda has been posted on the OPAG website:

<https://www.lpi.usra.edu/opag/meetings/upcoming/> [17]

Registration is required for all attendees except for the steering committee members.

Please use the link above to access the registration link on the OPAG website.

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NEOWISE 2019 DATA RELEASE AVAILABLE APRIL 11, 2019

The Near-Earth Object Wide-field Infrared Survey Explorer (NEOWISE) and IPAC at the California Institute of Technology announce the NEOWISE 2019 Data Release.

The 2019 Data Release includes all data acquired during the fifth year of the NEOWISE Reactivation mission (Mainzer et al. 2014, ApJ, 792, 30), 13 December 2017 to 13 December 2018. These data are combined with the Year 1-4 NEOWISE data into a single archive that contains approximately 12.8 million sets of 3.4 and 4.6 micron images and a database of over 95 billion source detections extracted from those images.

NEOWISE scanned the sky nearly ten complete times during the first five 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/> [18].

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> [19].

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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NASA POSTDOCTORAL FELLOWSHIP - APPLICATION DEADLINE JULY 1, 2019

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](#) [20].

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/> [21]

Questions: npphelp@usra.edu [22]

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BUILDING THE NASA CITIZEN SCIENCE COMMUNITY WORKSHOP

Building the NASA Citizen Science Community, June 20-22, 2019,

Hacienda del Sol, Tucson, AZ.

Scientists, educators, students, and people interested in learning about, and joining, citizen science projects are invited attend this 3-day workshop. The focus has two primary areas of focus: 1) to bring together citizen science practitioners from NASA and the broader global citizen science community to discuss best practices from successful citizen science projects, to brainstorm ideas for new citizen science projects, and to devise ways to grow NASA's citizen science community, and 2) to gather students, educators, and citizen scientists to explore current citizen science projects, learn about the type of work occurring in different projects, and explore ways to get involved. Representatives from NASA, iNaturalist, GLOBE, Zooniverse, CosmoQuest, and other citizen science programs will be present. Registration is free but limited; registration is on a first-come, first-serve basis. Breakfast and lunch are provided all three days.

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SOFTWARE SYSTEMS FOR ASTRONOMY - REGISTRATION OPEN

Please note that registration is now open for the summer school in Software Systems for Astronomy (SSfA-6). The course will take place July 15-26, 2019, on the Big Island of Hawaii. The course covers software design and implementation of telescope and instrument control systems, observation planning tools, and software for analyzing and archiving astronomical data.

If you are not a University of Hawaii at Hilo (UHH) student, use this link to register:

<https://hilo.hawaii.edu/depts/summer/SummerAdmissions.php> [23]

If you are a UHH student, use this link to register:

<https://hilo.hawaii.edu/depts/summer/SummerCourseRegistration.php> [24]

More information can be found here:

<http://astro.uhh.hawaii.edu/Summer/Summer-2019/ssfa19.php> [25]

Direct questions to aconrad@hawaii.edu [26]

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JOBS, POSITIONS, OPPORTUNITIES

A) POSTDOCTORAL POSITION, YALE UNIVERSITY

The department of Geology and Geophysics at Yale University invites applications for a postdoctoral position in the area of planetary climates. The successful candidate will join the research group of Prof. Juan Lora to explore various aspects of Solar System atmospheres. Potential projects include investigations of the hydrologic cycles of Earth and Titan, modeling of gas giant atmospheric dynamics, and surface-atmosphere interactions on terrestrial bodies. The work will involve interdisciplinary approaches, and interaction with other experts within the Department and across the University will be highly encouraged. Applications will be reviewed starting May 15, 2019.

For full details and information on how to apply, visit:

<https://earth.yale.edu/opportunities> [27]

Informal inquiries to juan.lora@yale.edu [28] are welcome.

B) POSTDOCTORAL FELLOW IN OCEAN WORLD GEOLOGY: COMBINED TEACHING AND RESEARCH OPPORTUNITY

The Physics and Astronomy Department at Wheaton College in Norton, Massachusetts invites applications for a one-year postdoctoral fellowship position in ocean world geology and geophysics, with an expected start

date in July 2019. We seek candidates who are enthusiastic about teaching in a small liberal arts college setting, and who can contribute to ongoing research on the dynamics of ocean worlds. The chosen candidate will conduct research with Professors Geoffrey Collins and Jason Goodman on ocean-ice interactions and transport processes through floating ice shells on the outer planet satellites, especially as it relates to the transport of materials of astrobiological interest. The chosen candidate will also teach one class each semester, including introductory geology.

To read the full details and to apply, visit

<https://jobs.wheatoncollege.edu/postings/2636> [29]

Applications will be reviewed on an on-going basis beginning May 10, 2019.

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Send submissions to:

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

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 [31]. The more general AAS privacy policy is available

online at <https://aas.org/about/policies/privacy-policy> [32]. Current and back

issues of the DPS Newsletter can be found at <https://dps.aas.org/newsletters> [33]

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Links:

- [1] https://urldefense.proofpoint.com/v2/url?u=https-3A__dps.aas.org_meetings_hartmann-2Dapplicatio&n&d=DwMGaQ&c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&m=Koe1GjKMRzQS3F1QEX2ycaTt1gldvWbRF9MKp__624g&s=nk3ms3MP6ljwq2dpzoBpGAK2iIX7jYyReLRQJGh0T0&e=
- [2] https://urldefense.proofpoint.com/v2/url?u=https-3A__tinyurl.com_y6z5gzlt&d=DwMGaQ&c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&m=Koe1GjKMRzQS3F1QEX2ycaTt1gldvWbRF9MKp__624g&s=mVxZwPKVboTLDi6t3UNfwDJWIMT5HeGbEwIDKozAcns&e=
- [3] https://urldefense.proofpoint.com/v2/url?u=https-3A__www.epsc-2Ddps2019.eu_home.html&d=DwMGaQ&c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&m=Koe1GjKMRzQS3F1QEX2ycaTt1gldvWbRF9MKp__624g&s=55zn5Hk9Z_365qBUgsTdfs5azHY1IWApgzpdpZn7VT4&e=
- [4] https://urldefense.proofpoint.com/v2/url?u=https-3A__meetingorganizer.copernicus.org_EPSC-2DDPS2019_session_34017&d=DwMGaQ&c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&m=Koe1GjKMRzQS3F1QEX2ycaTt1gldvWbRF9MKp__624g&s=vH9n7ZAjPEa4DGoWopYuQhyCO_NgLZqaB2xo2P4fEd8&e=
- [5] https://urldefense.proofpoint.com/v2/url?u=https-3A__www.epsc-2Ddps2019.eu_&d=DwMGaQ&c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&m=Koe1GjKMRzQS3F1QEX2ycaTt1gldvWbRF9MKp__624g&s=NMIoIKcpGgvAzM3xr-w3KCE2u5vqQlZ36ydZ_Y4KbNg&e=
- [6] https://urldefense.proofpoint.com/v2/url?u=https-3A__meetingorganizer.copernicus.org_epsc-2Ddps2019_sessionprogramme&d=DwMGaQ&c=ApwzowJNAKKw3xye91w7BE1XMRKi2LN9kiMk5Csz9Zk&r=fG5pH1N7YtwOEF6xelPAeRse0ND3CGAXrgq3T4Wd0y4&m=Koe1GjKMRzQS3F1QEX2ycaTt1gldvWbRF9MKp__624g&s=XchgqTkccElRbmZVb4t6yxEj1wWln26hHE79pNGoVc&e=
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