

EPSC2018

European Planetary Science Congress 2018

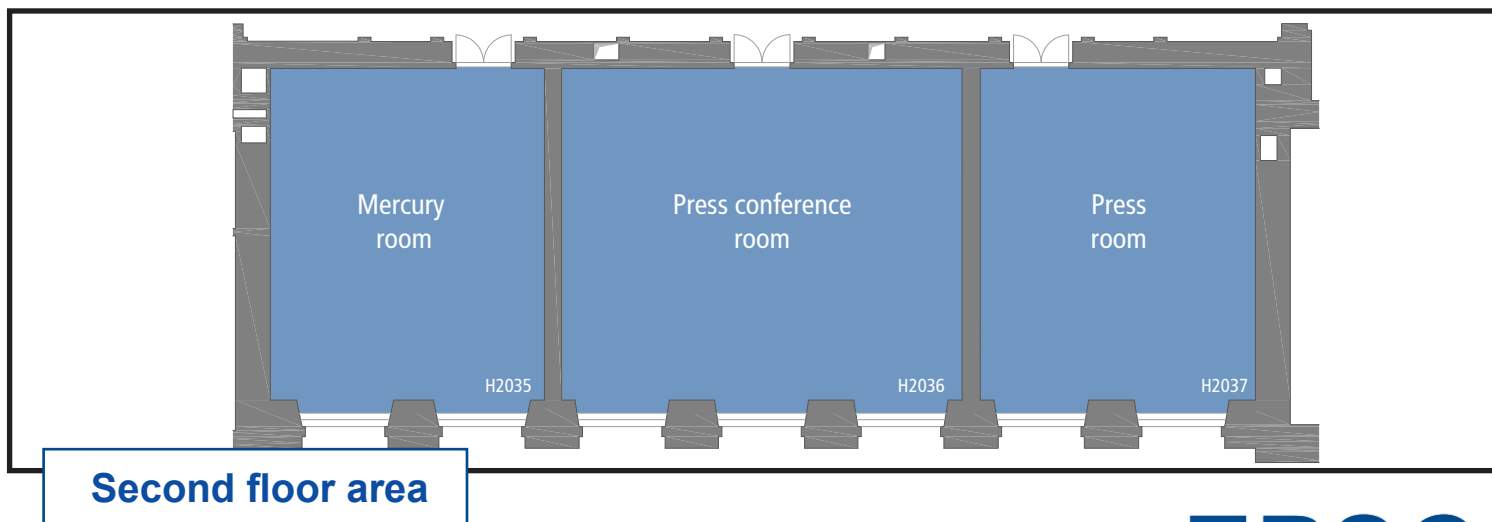
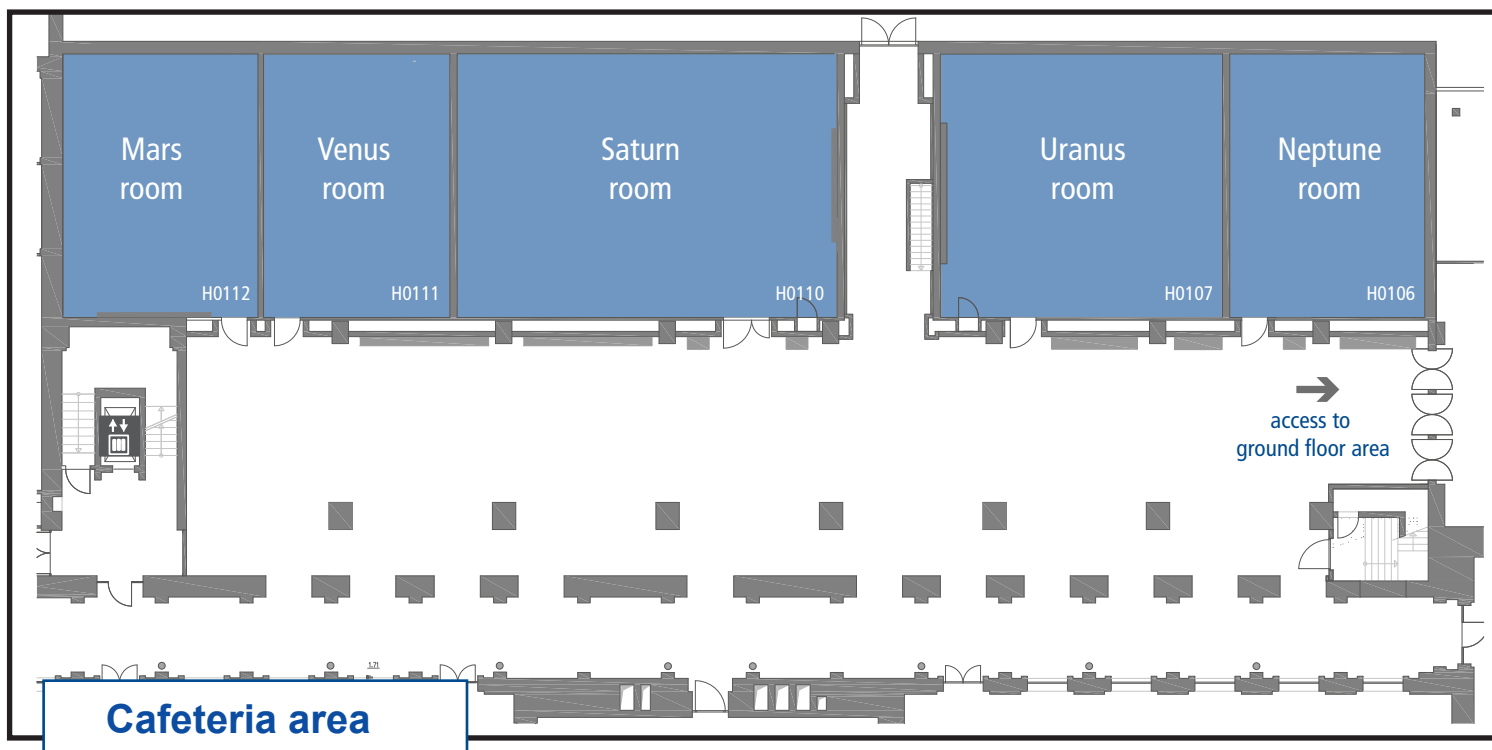
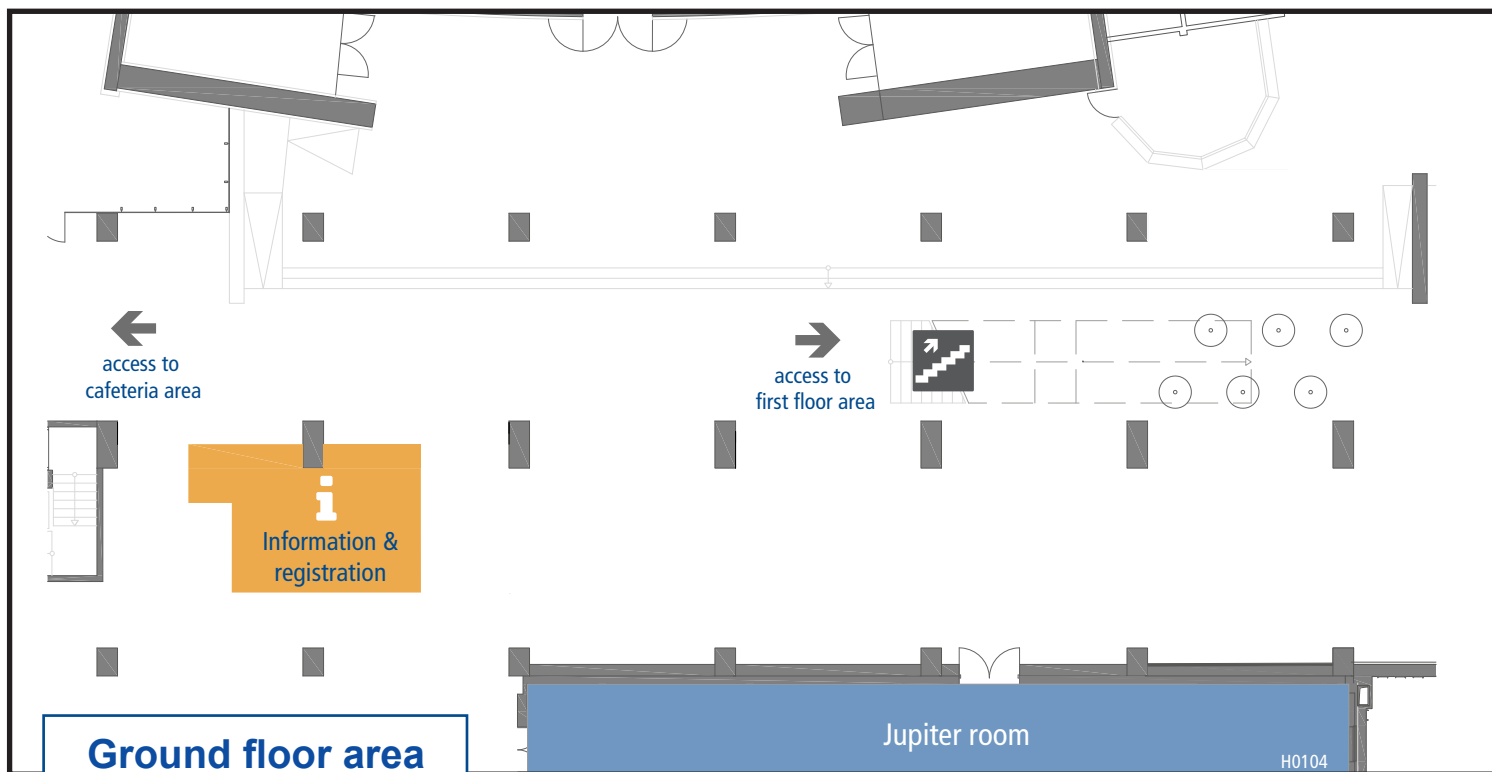
16–21 September 2018
TU Berlin | Berlin | Germany

Programme Book

EPSC

European Planetary Science Congress





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Message from the Organizers

On behalf of the Executive Committee, the Scientific Organizing Committee and the Local Organizing Committee, welcome to the 13th European Planetary Science Congress, EPSC2018. We are delighted to be returning to Berlin, which hosted the very first EPSC in 2006.

EPSC is the largest annual international meeting on planetary science in Europe. This year, again, we are expecting a very rich and exciting programme. We have received over 1200 abstracts, the largest ever number of contributions received for a stand-alone EPSC, and these have been organized across 59 parallel oral sessions, 3 dedicated poster sessions, specific workshops and splinter meetings. We trust we have put together a very stimulating programme covering all major fields in planetary science. We hope this will foster the exchange of great science and stimulate new research ideas and collaborations. We certainly hope that this week in Berlin will be a very productive week for all participants.

EPSC2018 sees the launch of the new Europlanet Society, which will provide a sustainable structure for Europlanet to support our growing planetary science community in Europe and act as the parent organization of EPSC going forward. The Society will be open to individual and institutional members and we hope that many of you will join and play an active role in shaping the future of our community.

EPSC2018 is also an opportunity to review the activities of the €9.95 million Europlanet 2020 Research Infrastructure as it moves into the final year of the four-year project. Presentations across multiple sessions and workshops at EPSC will highlight the virtual access services and tools, the laboratory and field visits, the meetings, the training workshops and the outreach activities that have been made possible through the project, and the many people within our community that have benefited from this support through the European Commission's Horizon 2020 programme. As we look forward to developing future projects, we recognize the role that Europlanet and EPSC can play in building capacity in our community in under-represented states and in forging links with other communities, including industry,

amateur astronomers, policy makers, the next generation of scientists and engineers, and planetary scientists around the world.

The EPSC social event is always a special moment in our programme and will take place on Wednesday evening (19 September), 19:30. We look forward to a cosy and convivial evening in the rustic and popular "Brauhaus Lemke am Alex". The brewery is located in the heart of Berlin directly opposite the television tower on famous Alexanderplatz. You can expect a large number of artisan brewed beer and a buffet with regional cuisine (including vegetarian and vegan options).

Berlin, Germany's capital, the 3.6 million metropolis in the heart of Europe attracts people from around the world. Berlin can look back on an eventful history, and is today a creative and dynamic city with an inimitable feeling for life. After a busy day at the EPSC2018, Berlin offers a wide range of cultural and culinary attractions as well as leisure activities. Take your pick from Europe's largest museum complex (a UNESCO World Cultural Heritage Site), over 50 theatres, 3 opera houses and numerous museums – all within easy reach by the excellent public transport links.

Again, welcome to Berlin and to the 13th European Planetary Science Congress, EPSC2018.

Enjoy your week in the beautiful and very attractive city of Berlin.

M. Cristina De Sanctis (SOC Chair)
Frank Sohl (SOC Co-chair)
Jean-Pierre Lebreton (EPSC Chair)
Nigel Mason (Europlanet Coordinator)
Athena Coustenis
(Europlanet Deputy Coordinator)
Jürgen Oberst (LOC Chair)
Mario Ebel (Copernicus)



Introducing the Europlanet Society

Europlanet is launching a new Society to support planetary science in Europe.

The Society is open to individual and institutional members and anyone with an active interest in planetary science is welcome to join.

The Society will be launched at EPSC 2018 during the General Assembly at 12:45 on Thursday, 20th September.

Please come along and find out more about membership benefits and how you can join us to help shape the future of planetary science in Europe.

Are you looking for funding to kick-start an outreach project? Have you run a successful outreach project for which you deserve recognition?

The call for applications for the 2019 round of Europlanet's Public Engagement Funding Scheme and the call for nominations for the 2019 Europlanet Prize for Public Engagement are now open: <http://www.europlanet-eu.org/outreach>



Location and conference address

The European Planetary Science Congress 2018 is held at the Technische Universität Berlin, Berlin, Germany from 16 to 21 September 2018. The congress is open to scientists of all nations.

Technische Universität Berlin

Main Building (H)
Straße des 17. Juni 135
10623 Berlin
Germany

Rules of conduct

- Smoking is prohibited in the entire congress centre except in the areas designated for smokers.
- It is prohibited to copy any presentation from the desktops in the lecture rooms.
- Unless the presenting author gives permission to do so, it is forbidden to take photos or videos of scientific material at the conference. Press participants reporting on research presented at the conference may take photos of material for their own personal use, provided they do not report on the research or publish any of the recorded material without the author's permission.
- Please switch off any mobile phones in the lecture rooms.
- Professional and respectful conduct of all attendees is expected. Bullying, harassment, intimidation or discrimination of any kind will not be tolerated.

Official language

The official language of the EPSC2018 is English. Simultaneous interpretation is not provided. It is therefore expected that authors are able to present their research more or less fluently in the English language.

Insurances

The organizers cannot accept liability for personal accident, loss or damage to private property, which may be incurred as a result of the participation in the European Planetary Science Congress 2018. Participants are therefore advised to arrange appropriate insurance cover. This should extend not only to travel but also to cancellation costs.

Services

Internet

Wireless internet access for EPSC2018 participants is available free of charge. Please access the network "TUB-Guest" and note that a personalised wifi code will be distributed to you at the information & registration desk (usage for the whole duration of the conference for one device).

Alternatively, you may also connect to eduroam at the facilities of TU Berlin. Computers for internet use are not provided.

EPSC2018 App

The EPSC2018 mobile app is available for iPhones and Android smartphones. Please scan the QR code below or go directly to <https://app.epsc2018.eu>. You will be directed to the proper app version download for your particular device.



Registration & information desk

The registration & information desk is located on the ground floor (EG) of the TU Berlin.

Opening hours of registration & information desk

Sunday, 16 September 2018
15:00–18:00

Monday–Thursday, 17–20 September 2018
08:00–18:00

Friday, 21 September 2018
08:00–12:00

Press office

The press office and press conference rooms are located on the second floor of TU Berlin.

Press Officers

Anita Heward
EPSC2018 Press Officer

Livia Giacomini
EPSC2018 Press Officer

Adirana Postiglione
EPSC2018 Press Office (trainee)

Europlanet Media Centre website:
<http://www.europlanet-eu.org/press/>

Follow EPSC2018 on social media with the tag #EPSC2018.

Twitter account: [europlanetmedia](#)

Press office opening hours

Monday–Thursday, 17–20 September 2018
09:00–18:00

Friday, 21 September 2018
09:00–15:00

Scientific Organizing Committee

M. Cristina De Sanctis (*Chair*)
 Frank Sohl (*Co-Chair*)
 Jean-Pierre Lebreton (*EPSC Executive Committee Chair*)
 Nigel Mason (*Europlanet Coordinator*)
 Athena Coustenis (*Europlanet Deputy Coordinator*)
Programme Group Chairs and Coordinators:
 Nicolas Altobelli
 Mahesh Anand
 Nicolas André
 Anthony Boccaletti
 Vincent Boudon
 John Robert Brucato
 Lina Canas
 Maria Teresa Capria
 Barbara Cavallazzi
 Eleni T. Chatzichristou
 Apostolos Christou
 Athena Coustenis
 Gabriele Cremonese
 Marc Delcroix
 Vincenzo Della Corte
 Bernard Foing
 Livia Giacomini
 Felipe Gómez
 Iouli E. Gordon
 Manuel Grande
 John Lee Grenfell
 Ravid Helled
 Ricardo Hueso
 Catriona Jackman
 Ralf Jaumann
 Norbert Krupp
 Brook Lakew
 Alessandro Morbidelli
 Lena Noack
 Julie Nekola Novakova
 Gian Gabriele Ori
 Olga Prieto-Ballesteros
 Kim Reh
 Bernard Schmitt
 Jonathan Tennyson
 Marcell Tessenyi
 Giovanna Tinetti
 Federico Tosi
 Frances Westall
 Olivier Witasse
 Ruth Ziethé

Local Organizing Committee

Jürgen Oberst (*Chair*)
 Daniel Wahl
 Philipp Gläser
 Isabel Haase
 Heike Rauer
 Doris Breuer
 Konrad Willner
 Lena Noack
 Kai Wünnemann
 Robert Luther
 Ralf Srama
 Ulrich Köhler
 Mathias Burger

EPSC Executive Committee

Jean-Pierre Lebreton (*EPSC Chair*)
 Manuel Grande (*EPSC Immediate past chair*)
 Nigel Mason (*Europlanet Chair*)
 Athena Coustenis (*Europlanet Vice Chair & liaison officer*)
 Anita Heward (*Media and Communications*)
 Marcell Tessenyi (*Industry officer*)
 Nicolas Walter (*ESF representative*)
 Mario Ebel (*Copernicus representative*)
 M. Cristina De Sanctis (*EPSC2018 SOC Chair*)
 Jürgen Oberst (*EPSC LOC Chair*)

Local organizing, registration, abstract & programme management

Copernicus Meetings
meetings@copernicus.org
www.copernicus.org, <https://epsc2018.eu>



Monday–Friday, 16–21 September 2018

Timeblock 1	08:30–10:15
Coffee break	10:15–10:45
Timeblock 2	10:45–12:30
Lunch break	12:30–14:00
Timeblock 3	14:00–15:45
Coffee break	15:45–16:15
Timeblock 4	16:15–18:00
Timeblock 5	18:15–20:00

Poster display times

Poster group 1 display time

Tuesday, 18 September 2018, 08:00–20:00

Author in Attendance: Tuesday, 18:15–20:00

Authors of the first poster group are kindly requested not to put up their posters before Tuesday, 08:00 and to take down their posters by Tuesday, 20:00 at the very latest.

Poster group 2 display time

Wednesday, 19 September 2018, 08:00–20:00

Author in Attendance: Wednesday, 16:15–18:00

Authors of the second poster group are kindly requested not to put up their posters before Wednesday, 08:00 and to take down their posters by Wednesday, 20:00 at the very latest.

Poster group 3 display time

Thursday, 20 September 2018, 08:00–20:00

Author in Attendance: Thursday, 18:15–20:00

Authors of the third poster group are kindly requested not to put up their posters before Thursday, 08:00 and to take down their posters by Thursday, 20:00 at the very latest.

Fixation material will be provided for posters.
 Posters are located in the Lichthof area (posters P1–P118) and the first floor area (P119–P196).
 Free drinks will be served during the poster sessions.

Coffee breaks & lunch

Free coffee breaks are scheduled for Monday–Friday at 10:15–10:45 and 15:45–16:15.

Lunch is not provided. However, there are plenty of restaurants, cafés and pubs in the surrounding area of the TU Berlin.

Exhibitors

European Space Agency (ESA)

www.esa.int

Explore the Solar System with ESA's fleet of space science satellites. The ExoMars Trace Gas Orbiter recently started analysing the martian atmosphere, while Mars Express celebrates 15 years in orbit. BepiColombo will soon be on its way to investigate mysterious Mercury, and Cheops is getting ready to characterise exoplanets. We're also preparing to travel to the Sun with Solar Orbiter, and to the outer Solar System with our Jupiter Icy Moons Explorer. Visit our stand to meet mission scientists, pick up outreach materials, and learn more about our missions past, present and future.

European Geosciences Union (EGU)

Luisenstr. 37
80333 Munich
Germany
Phone: +49 89 21806549
info@egu.eu
www.egu.eu

The European Geosciences Union (EGU) is Europe's premier geosciences union, dedicated to the pursuit of excellence in the Earth, planetary, and space sciences for the benefit of humanity, worldwide. The Union has about 15,000 members and organises a General Assembly that attracts over 14,000 scientists each year. The EGU publishes a number of diverse scientific journals, which use an innovative open access format, and organises a number of topical meetings, and education and outreach activities.

Community events

CE1 – EPSC Executive Committee Meeting I (by invitation only)

Convener: Jean-Pierre Lebreton
Room: IGG Reading Room
Sunday, 16 September, 08:00–10:00

CE2 – EPN council meeting (by invitation only)

Convener: Nigel Mason
Room: Mercury
Sunday, 16 September, 10:00–17:00

CE3 – Icebreaker reception

We invite all conference participants to join us for the icebreaker reception in the Lichthof area.

Room: Lichthof
Sunday, 16 September, 16:00–18:00

CE4 – Life stories - a career in planetology (lecture by Heike Rauer)

Conveners: Victoria K Pearson, Anita Heward, Lena Noack, Jacqueline Campbell, Loïc Rossi, Anna Losiak, Rutu Parekh
Room: Mars
Sunday, 16 September, 18:30–19:30

CE5 – Opening ceremony

Conveners: Jean-Pierre Lebreton, M. Cristina De Sanctis, Jürgen Oberst
Room: Jupiter
Monday, 17 September, 08:45–10:15

CE6 – Agency night

Conveners: Jean-Pierre Lebreton, Athena Coustenis
Room: Jupiter
Monday, 17 September, 20:15–22:00

CE7 – EPSC Executive Committee Meeting II (by invitation only)

Convener: Jean-Pierre Lebreton
Room: IGG Reading Room
Tuesday, 18 September, 12:45–13:45

CE8 – Farinella Prize Lecture by Francis Nimmo

Convener: M. Cristina De Sanctis
Room: Jupiter
Wednesday, 19 September, 12:45–13:15

CE9 – Social event (pre-registration mandatory)

Brauhaus Lemke am Alex
Wednesday, 19 September, 19:30–22:00

CE10 – Europlanet General Assembly

Convener: Nigel Mason
Room: Jupiter
Thursday, 20 September, 12:45–13:45

Launch of the Europlanet Society

We invite you to join us for the launch of the Europlanet Society during the General Assembly at EPSC 2018 at 12:45 on Thursday, 20 September.

The Society will provide a sustainable structure for Europlanet to support our growing planetary science community in Europe and will act as the parent organisation of EPSC going forward. The new organisation will include 11 Regional Hubs to offer members a more direct and local engagement with Europlanet.

The Society is open to both individual and Institutional members and anyone with an active interest in planetary science (whether academic or industrial, professional or amateur) is welcome to join.

Please come to the General Assembly and learn more about the Europlanet Society, the membership benefits offered and how to join this exciting new venture.

Splinter meetings & workshops

SMW1.1 – Science Flash 2018 (public)

Convener: Andrea Longobardo
Room: Mercury
Wednesday, 19 September, 16:15–17:45

SMW1.2 – OpenPlanetary Data Café Workshop (public)

Convener: Mario D'Amore
Room: Mercury
Tuesday, 18 September, 12:45–15:45
Thursday, 20 September, 12:45–15:45

SMW1.3 – Seminar on Solar System Geometry with SPICE (public)

Convener: Marc Costa
Room: Mercury
Wednesday, 19 September, 14:00–15:45

SMW1.4 – Status update of Hera, the European contribution to the first asteroid deflection mission (public)

Convener: Michael Küppers
Room: Mercury
Wednesday, 19 September, 12:45–13:45

SMW1.5 – Solar System Virtual Observatory Hands-on session (public)

Convener: Michel Gangloff
Room: Mercury
Thursday, 20 September, 16:15–20:00

SMW1.6 – Diversity and Inclusiveness Lunch (public)

Convener: Anita Heward
Room: Mercury
Friday, 21 September, 12:45–13:45

SMW1.7 – NASA's Astromaterials Data System: Engaging the Community (public)

Convener: Kerstin Lehnert
Room: Mercury
Tuesday, 18 September, 16:15–18:00

SMW1.8 – sbpy – an astropy affiliated module for small-body planetary astronomy (public)

Convener: Michael Mommert
Room: Mercury
Tuesday, 18 September, 18:15–20:00

SWM1.9 – Science Cross Talks (public)

Convener: Maike Brigitte Neuland
Room: Mars
Monday, 17 September, 12:45–13:45

SWM1.10 – It's all about the money (public)

Convener: Maike Brigitte Neuland
Room: Mars
Tuesday, 18 September, 12:45–13:45

SWM1.11 – Science Cross Talks (public)

Convener: Maike Brigitte Neuland
Room: Mars
Wednesday, 19 September, 12:45–13:45

SWM1.12 – EPSC Industry session (public)

Convener: Marcell Tessenyi
Room: Mercury
Monday, 17 September, 10:45–13:45

SWM1.13 – USGS Integrated Photogrammetric Control Environment (IPCE) Software Demonstration (public)

Convener: Kenneth Edmundson
Room: Mercury
Tuesday, 18 September, 10:45–12:30

SMW2.1 – Diversity Committee Meeting (by invitation only)

Convener: Anita Heward
Room: Mercury
Friday, 21 September, 10:45–12:30

SMW2.2 – Dawn Science Team Splinter (by invitation only)

Convener: Julie Castillo
Room: Mercury
Thursday, 20 September, 08:30–12:30

SMW2.3 – Solar System observations with ESA Euclid (by invitation only)

Convener: Colin Snodgrass
Room: IGG Reading Room
Thursday, 20 September, 10:45–12:30

SMW2.4 – EnVision M5 (by invitation only)

Convener: Colin Wilson
Room: IGG Reading Room
Thursday, 20 September, 14:00–18:00

Terrestrial Planets

TP1 Mercury Science and future exploration

Convener: Joe Zender

Co-conveners: Alice Lucchetti; Hauke Hussmann; Johannes Benkhoff; Go Murakami; Joana S. Oliveira

Lecture Room: Neptune

10:45–12:15

Chairperson: Joana Oliveira

Laboratory measurement, ground-based observations and simulation

10:45–11:00: EPSC2018-733

Mid-Infrared Spectroscopy of Planetary Analogs: A Database for Planetary Remote Sensing

Morlok Andreas, Klemme Stephan, Weber Iris, Sohn Martin, Stojic Aleksandra, Hiesinger Harald, Helbert Joern

11:00–11:15: EPSC2018-763

Bi-directional reflectance and NanoFTIR spectroscopy of synthetic analogues of Mercury: Supporting MERTIS payload of ESA/JAXA BepiColombo mission

Varatharajan Indhu, Maturilli Alessandro, Helbert Jörn, Ulrich Georg, Born Kirsten, Namur Olivier, Kästner Bernd, Hecht Lutz, Charlier Bernard, Hiesinger Harald

11:15–11:30: EPSC2018-1216

Ground-Based BepiColombo Support with the Rapid Imaging Planetary Spectrograph

Schmidt Carl, Baumgardner Jeffrey, Moore Luke, Bida Tom

11:30–11:45: EPSC2018-649

Simulation of Space-Weathered TIR Spectra on Mercury

Wohlfarth Kay, Grumpe Arne, Wöhler Christian, Stojic Aleksandra, Morlok Andreas, Hiesinger Harald

Magnetic Field

11:45–12:00: EPSC2018-650

Concerning the Offset Dipole Magnetic Field of Planet Mercury

Heyner Daniel

12:00–12:15: EPSC2018-1081

MHD instabilities at the Mercury's magnetopause

Ivanovski Stavro, Milillo Anna, Kartalev Monio, Massetti Stefano

12:15 Lunch break

14:00–15:30

Chairperson: Alice Lucchetti

Surface

14:00–14:15: EPSC2018-163

Hollows and their relationship with geochemical terrains

Lucchetti Alice, Pajola Maurizio, Merusi Marco, Cremonese Gabriele, Galluzzi Valentina, Giacomini Lorenza, Carli Cristian, Marzo Giuseppe A., Ferrari Sabrina, Massironi Matteo, Palumbo Pasquale

14:15–14:30: EPSC2018-164

Spectral clustering on Hermean hollows located on pyroclastic deposits

Pajola Maurizio, Lucchetti Alice, Marzo Giuseppe, Cremonese Gabriele, Massironi Matteo

14:30–14:45: EPSC2018-522

Mapping Low-Reflectance Material on Mercury

Klima Rachel, Blewett David, Denevi Brett, Ernst Carolyn, Murchie Scott, Peplowski Patrick

14:45–15:00: EPSC2018-653

MESSENGER Epithermal Neutron Map of Mercury: Possible Low-Latitude Hydrogen Variation

Wilson Jack, Lawrence David, Peplowski Patrick

15:00–15:15: EPSC2018-850

Spectral and lithological heterogeneities in the Shakespeare (H-03) quadrangle of Mercury

Bott Nicolas, Doressoundiram Alain, Perna Davide, Zambon Francesca, Carli Cristian, Capaccioni Fabrizio

15:15–15:30: EPSC2018-1001

Potential Identification of Sublimation-Driven Downslope Mass Movements on Mercury

Malliband Christopher C., Conway Susan J., Rothery David A., Balme Matthew R.

15:30 Coffee break

16:15–18:00

Chairperson: Hauke Hussmann

Geodesy and Interior

16:15–16:30: EPSC2018-511

Constraining the Early History of Mercury and its Core Dynamo by Studying the Crustal Magnetic Field

Oliveira Joana S., Hood Lon L.

16:30–16:45: EPSC2018-610

Viscoelastic Tides of Mercury and Implications for its Inner Core Size

Steinbrügge Gregor, Padovan Sebastiano, Hussmann Hauke, Steinke Teresa, Stark Alexander, Oberst Jürgen

16:45–17:00: EPSC2018-890

Mercury's rotational state from self-registration of Mercury Laser Altimeter profiles

Stark Alexander, Oberst Jürgen, Hussmann Hauke, Steinbrügge Gregor

17:00–17:15: EPSC2018-404

Characterizing the deviations of Mercury's bulk composition from solar abundances

Brugger Bastien, Mousis Olivier, Deleuil Magali, Ronnet Thomas

BepiColombo: Outreach, Mission, and Instruments

17:15–17:30: EPSC2018-420

BepiColombo - The next step of Mercury Exploration with two orbiting spacecraft

Zender Joe, Benkhoff Johannes, Murakami Go

17:30–17:45: EPSC2018-219

Preparing for the epic adventures of BepiColombo
Baldwin Emily, Mignone Claudia, Bauer Markus

17:45–18:00: EPSC2018-1276

BepiVR: Virtual Reality for BepiColombo outreach
Politi Romolo

18:00 Break**18:15–19:45**

Chairperson: Go Murakami

18:15–18:30: EPSC2018-1114

Exploration of the innermost planet Mercury's environment
 by BepiColombo

Murakami Go, Hayakawa Hajime, Fujimoto Masaki

18:30–18:45: EPSC2018-932

The scientific outcome from BepiColombo flybys at Venus
Mangano Valeria, de la Fuente Sara, Montagnon Elsa,
 Casale Mauro, Benkhoff Johannes, Zender Joe,
 Murakami Go, Orsini Stefano, De Angelis Elisabetta,
 Rispoli Rosanna

18:45–19:00: EPSC2018-973

Simulation of MPO orbit reconstruction using Doppler
 observations and comparison with laser altimetry
 observations

Hosseiniarani Alireza, Bertone Stefano, Arnold Daniel,
 Jäggi Adrian, Thomas Nicolas

19:00–19:15: EPSC2018-870

Investigating X-ray fluorescence from the surface of
 Mercury using MIXS

Cooper Rose, Grande Manuel, Bunce Emma,
 Martindale Adrian

19:15–19:30: EPSC2018-1184

The ISA accelerometer, in view of BepiColombo launch
Iafolla Valerio, Fiorenza Emiliano, Lefevre Carlo,
 Lucchesi David Massimo, Lucente Marco, Magnifico
 Carmelo, Peron Roberto, Santoli Francesco

19:30–19:45: EPSC2018-386

Scientific Performance of the BepiColombo Laser
 Altimeter (BELA) at Mercury

Hussmann Hauke, Steinbrügge Gregor, Stark Alexander,
 Oberst Jürgen, Thomas Nicolas, Lara Luisa

END OF ORAL PROGRAMME TP1**TP2 Mars Interior and Surface**

Convener: Ernst Hauber

Co-conveners: Gino Erkeling; Solmaz Adeli;
 Ana-Catalina Plesa

Lecture Room: Uranus

14:00–15:45

Chairperson: Ernst Hauber

Martian Polar Caps and Cryosphere**14:00–14:15: EPSC2018-429**

Depth, volume and density of Mars' seasonal polar caps
Smith David E, Zuber Maria T

14:15–14:30: EPSC2018-225

Stereo-topographic mapping of the stratigraphy of Mars'
 South Polar Layered Deposits

Becerra Patricio, Sori Michael, Thomas Nicholas,
 Pommerol Antoine, Almeida Miguel, Tulyakov Stepan,
 Ivanov Anton, Simioni Emmanuele, Cremonese Gabriele
 and the CaSSIS Team

14:30–14:45: EPSC2018-1273

Erosion rate of the north polar scarps of Mars based on
 automated detection of block falls in HiRISE images

Fanara Lida, Gwinner Klaus, Hauber Ernst,
 Oberst Jürgen

14:45–15:00: EPSC2018-1019

An Investigation of Araneiform Terrain in Angustus
 Labyrinthus, Mars.

Hao Jingyan, Michael Gregory, Adeli Solmaz,
 Jaumann Ralf

15:00–15:15: EPSC2018-1025

Hyperspectral characterisation of the Martian south polar
 residual cap using CRISM

Campbell Jacqueline, Sidiropoulos Panagiotis,
 Muller Jan-Peter

15:15–15:30: EPSC2018-149

The Penetration of Solar Radiation into Carbon Dioxide
 Ice and Snow

Chinnery Hannah, Hagermann Axel, Kaufmann Erika,
 Lewis Stephen

15:30–15:45: EPSC2018-805

Experimental, spectral and colour analysis of H₂O and
 CO₂ ices and dust samples. Application to Martian, icy
 surfaces.

Yoldi Zurine, Pommerol Antoine, Thomas Nicolas

15:45 Coffee break**16:15–18:00**

Chairperson: Ina Plesa

Icy and Aqueous Processes**16:15–16:30: EPSC2018-346**

Geomorphological Evidence of Local Presence of
 Ice-Rich Deposits in Terra Cimmeria, Mars

Adeli Solmaz, Hauber Ernst, Michael Gregory G.,
 Fawdon Peter, Smith Isaac B., Jaumann Ralf

16:30–16:45: EPSC2018-703

Hydrological History of a Complex Lake and Valley
 System in Western Arabia Terra, Mars

Dickeson Zachary, Grindrod Peter, Balme Matt,
 Davis Joel

16:45–17:00: EPSC2018-365

Aqueous Alteration at Libya Montes Reveals Changing
 Geochemical Environments on Early Mars

Tirsch Daniela, Bishop Janice L., Voigt Joana R. C.,
 Tornabene Livio L., Erkeling Gino, Jaumann Ralf

17:00–17:15: EPSC2018-682

An Investigation of Hydrated Minerals in Jezero Crater
Rangarajan Vidhya Ganesh, Bharti Rishikesh, Dutta
 Subhashisa

17:15–17:30: EPSC2018-781

Hydrothermal alteration in association with large impact basins on Mars

Viviano Christina, Phillips Michael

17:30–17:45: EPSC2018-68

The Banded Terrain on the Hellas Basin Floor, Mars: Gravity-driven flow not Supported by New Observations

Bernhardt Hannes, Ivanov Mikhail, Reiss Dennis, Hiesinger Harald, Hauber Ernst, Clark Jaclyn D.

17:45–18:00: EPSC2018-101

Terrestrial Saharan analogues to examine the groundwater origin of theater-headed valleys on Mars

Abotalib Abotalib, Heggy Essam

18:00 Break**18:15–20:00**

Chairperson: Solmaz Adeli

Surface Processes**18:15–18:30: EPSC2018-260**

Overview of recent ChemCam Findings after 2000 sols at Gale Crater, Mars

Schröder Susanne, Wiens Roger C., Gasnault Olivier, Mangold Nicolas, Johnson Jeffrey R., L'Haridon Jonas, Frydenvang Jens, Meslin Pierre-Yves, Cousin Agnes, Maurice Sylvestre

18:30–18:45: EPSC2018-252

Experimental investigation of sand transport mechanisms by boiling liquid water under Mars-like conditions and potential implications for martian gullies and RSL

Herny Clémence, Raack Jan, Conway Susan, Carpy Sabrina, Coulleu-Banse Tanguy, Patel Manish

18:45–19:00: EPSC2018-457

Active Gullies and Mass Wasting on Equatorial Mars

McEwen Alfred S., Thomas Melissa, Dundas Colin

19:00–19:15: EPSC2018-1237

Sediment transport by boiling seeping water: exploring effects of grain size and atmospheric conditions

Conway Susan, Carpy Sabrina, Masse Marion, Perrin Zoe, Enguehard Pauline, Patel Manish

19:15–19:30: EPSC2018-448

Recent rockfalls on Mars

Tesson Pierre-Antoine, Conway Susan, Mangold Nicolas, Lewis Stephen, Ciałzela Jakub

19:30–19:45: EPSC2018-339

Lobate features on Mars: a morphological and comparative study with dry and wet terrestrial analogues

Gastineau Renaldo, Conway Susan, Johnsson Andreas, Mangold Nicolas, Grindrod Peter

19:45–20:00: EPSC2018-192

Preferred orientations of Martian rock cracks through radiative transfer and geometric analyses

Smith Christina, Moores John

END OF ORAL PROGRAMME TP2**TP5 Atmospheres of terrestrial planets**

Convener: Anni Määttänen

Co-conveners: Olivier Witasse;

Francisco González-Galindo; Dmitrij Titov

Lecture Room: Saturn

10:45–12:25**Venus****10:45–11:05: EPSC2018-1179**

Discussion about the Physical Origin of the Venus Low Atmosphere Chemical Gradient

Cordier Daniel, Lebonnois Sébastien, Bonhommeau David

11:05–11:20: EPSC2018-950

Venus near surface temperature

Mueller Nils, Tsang Con, Lebonnois Sébastien, Smrekar Suzanne

11:20–11:35: EPSC2018-275

Venus' winds measured with visible imaging-spectroscopy at the THEMIS observatory

Gaulme Patrick, Schmider François Xavier, Widemann Thomas, Gonçalves Ivan, Lopez Ariste Arturo, Gelly Bernard

11:35–11:50: EPSC2018-379

Akatsuki and TNG/HARPS-N coordinated wind measurements of cloud top Venus' atmosphere

Gonçalves Ruben, Machado Pedro, Widemann Thomas, Peralta Javier, Watanabe Shigeto, Yamazaki Atsushi, Satoh Takehiko, Takagi Masahiro, Ogohara Kazunori, Lee Yeon Joo, Avet Harutyunyan, Silva José

11:50–12:10: EPSC2018-810

Venus' Meridional wind flow from: Akatsuki/UVI, Venus Express/VIRTIS, TNG/HARPS-N and CFHT/ESPADONs

Machado Pedro, Widemann Thomas, Peralta Javier, Gonçalves Ruben, Takagi Masahiro, Harutyunyan Avet, Lee Yeon Joo, Watanabe Shigeto, Satoh Takehiko, Ogohara Kazunori

12:10–12:25: EPSC2018-36

Ensemble Forecast Sensitivity to Observations (EFSO) of the Venus data assimilation system

Sugimoto Norihiko, Yamazaki Akira, Kouyama Toru, Kashimura Hiroki, Enomoto Takeshi, Takagi Masahiro

12:25 Lunch break

14:00–15:45**Early Mars****14:00–14:15: EPSC2018-157**

Simulation of the coupled atmosphere and hydrosphere on early Mars using a GCM

Kuroda Takeshi, Kamada Arihiro, Toriumi Katsushige, Kasaba Yasumasa, Terada Naoki, Nakagawa Hiromu

14:15–14:35: EPSC2018-694

Atmospheric escape at early Mars and its constraints on the evolution of the Martian atmosphere

Scherf Manuel, Dyadechkin Sergey, Amerstorfer Ute, Lammer Helmut, Khodachenko Maxim, Lichtenegger Herbert, Kallio Esa, Alho Markku, Alexeev Igor, Parunakian David, Adam Raven, Belenkaya Elena, Groeller Hannes, Johnstone Colin, Guedel Manuel

Mars upper atmosphere and escape**14:35–14:50: EPSC2018-734**

Study of the deuterium Lyman-alpha emission observed with the “low resolution mode” of MAVEN/IUVS

Chaufray Jean-Yves, Mayyasi Majd, Chaffin Mike, Clarke John, Deighan Justin, Jain Sonal, Bhattacharyya Dolon, Schneider Nick, Jakosky Bruce

14:50–15:10: EPSC2018-166

D and H in the Upper Atmosphere of Mars

Mayyasi Majd, Clarke John, Bhattacharyya Dolon

15:10–15:30: EPSC2018-64

Water in the martian thermosphere and its effect on hydrogen escape

Krasnopolsky Vladimir

15:30–15:45: EPSC2018-636

Atomic oxygen in the Martian thermosphere traced by the 130.4 and 135.6 nm emission lines with MAVEN/IUVS

Ritter Birgit, Gérard Jean-Claude, Gkouvelis Leonardos, Hubert Benoit, Jain Sonal, Schneider Nick

15:45 Coffee break**16:15–18:00****16:15–16:30: EPSC2018-334**

CO₂ variations in the Martian lower thermosphere from IUVS-MAVEN airglow observations.

Gkouvelis Leo, Gerard Jean Claude, Ritter Birgit, Hubert Benoit, Jain Sonal, Schneider Nick

16:30–16:45: EPSC2018-496

Temperature variability in the Martian thermosphere

González-Galindo Francisco, López-Valverde Miguel Ángel, García-Comas Maya, Forget Francois, Millour Ehouarn

16:45–17:00: EPSC2018-186

Global characteristics of gravity waves in the upper atmosphere of Mars as measured by MAVEN/NGIMS

Siddle Alex, Mueller-Wodarg Ingo, Yelle Roger, Stone Shane

Mars middle and lower atmosphere - modelling**17:00–17:15: EPSC2018-477**

Impact of gravity waves on the middle atmosphere of Mars studied combining Global Climate modelling and Mars Climate Sounder observations

Gilli Gabriella, Forget François, Spiga Aymeric, Navarro Thomas, Montabone Luca

17:15–17:30: EPSC2018-680

Gravity wave drag parameterization for the new generation of Mars Global Circulation Models

Kling Alexandre, Kahre Melinda, Wilson John, Brecht Amanda, Murphy James

17:30–17:45: EPSC2018-127

Flow associated with the Condensation and Sublimation of Carbon Dioxide Ice on Mars

Chow Keith K. C.

17:45–18:00: EPSC2018-1121

Dynamical Processes of Dust Lifting in the northern Mid-latitude region of Mars during the Storm Season

Xiao Jing

18:00 Break**18:15–19:30****18:15–18:30: EPSC2018-596**

Tagging dust and water in the NASA Ames Mars GCM: a new global vision of the Martian climate

Bertrand Tanguy, Kahre Melinda, Wilson John, Kling Alexandre

18:30–18:45: EPSC2018-847

Impact of the refinement of the vertical resolution on the simulation of the water cycle by the martian LMD Global Climate Model

Vals Margaux, Forget François, Spiga Aymeric, Millour Ehouarn

18:45–19:00: EPSC2018-460

Simulation of CO and H₂O₂ on Mars

Daerden Frank, Neary Lori, Viscardy Sébastien, García Muñoz Antonio, Clancy R. Todd, Smith Michael D., Encrenaz Thérèse

19:00–19:15: EPSC2018-480

Simulation of Ozone and Oxygen Airglow on Mars

Neary Lori, Daerden Frank, Viscardy Sébastien, García-Munoz Antonio, Clancy R. Todd, Smith Michael D., Fedorova Anna

19:15–19:30: EPSC2018-689

Looking for the sources of methane on Mars: statistical analysis of GCM simulations

Viscardy Sébastien, Daerden Frank, Neary Lori, Giuranna Marco, Etiope Giuseppe, Oehler Dorothy

END OF MONDAY ORAL PROGRAMME TP5**ORAL PROGRAMME TP5 CONTINUES ON TUESDAY**

Outer Planet Systems

OPS2 Cassini's Legacy: One Year Later

Convener: Scott Edgington

Co-conveners: Sushil K. Atreya; Athena Coustenis; Norbert Krupp; Linda Spilker

Lecture Room: Jupiter

10:45–12:30

Chairpersons: L. Spilker and S. Edgington

10:45–11:15: EPSC2018-168

Cassini: One Year Later

Spilker Linda, Edgington Scott

11:15–11:30: EPSC2018-111

Saturn's deep atmosphere revealed by the Cassini Grand Finale gravity measurements

Galanti Eli, Kaspi Yohai, Miguel Yamila, Guillot Tristan, Durante Daniele, Racioppa Paolo, Iess Luciano

11:30–11:45: EPSC2018-984

A clue about Saturn's normal modes from analysis of Cassini's Grand Finale gravity orbits

Durante Daniele, Racioppa Paolo, Iess Luciano

11:45–12:00: EPSC2018-527

On the Characteristics of Charged Dust in Saturn's Equatorial Ionosphere - Implications from Cassini RPWS/LP data

Wahlund Jan-Erik, Vigren Erik, Morooka Michiko, Hadid Lina, Farrell William, Persoon Ann, Kurth William, Gurnett Donald, Mitchell Donald, Perry Mark, Waite Jr. Hunter, Moore Luke, Cravens Tom, Galand Marina, Nagy Andy

12:00–12:15: EPSC2018-1088

Ring- and Moon-Associated Energetic Particle dropouts observed by MIMI-LEMMS during Cassini's Ring-Grazing Orbits

Jones Geraint, Roussos Elias, Kollmann Peter, Krupp Norbert, Mitchell Donald

12:15–12:30: EPSC2018-295

Saturn's Equatorial Ionosphere as Observed by Cassini: Composition and Flow

Cravens Thomas, Renzaglia Anthony, Moore Luke, Waite, Jr. J. Hunter, Perryman Rebecca, Perry Mark, Wahlund Jan-Erik, Hadid Lina, Persoon Ann

12:30 Lunch break

14:00–15:45

Chairpersons: C. Sotin and D. Cordier

14:00–14:15: EPSC2018-571

Saturn's upper atmosphere from the Cassini/UVIS Grand Finale stellar occultations

Koskinen Tommi, Brown Zarah, West Robert, Jouchoux Alain, Esposito Larry

14:15–14:30: EPSC2018-471

Saturn's stratospheric thermal structure, composition and dynamics revealed by Cassini/CIRS limb observations

Guerlet Sandrine, Fouchet Thierry, Sylvestre Melody, Simon Amy, Bjoraker Gordon, Flasar Mike

14:30–14:45: EPSC2018-120

On the carbon isotope ratio in Titan's atmosphere and interior

Krasnopolsky Vladimir

14:45–15:00: EPSC2018-1203

Titan's interior structure after Cassini/Huygens

Sotin Christophe, Rambaux Nicolas, Cadec Ondrej, Kalousova Klara, Neri Adrien, Reynard Bruno

15:00–15:15: EPSC2018-411

Can the Alkanofor of Titan show a chemical stratification?

Cordier Daniel, Coutelier Maélie

15:15–15:30: EPSC2018-519

The geological history of Saturn's icy moons and their interaction with the rings as revealed by the Cassini Radar

Le Gall Alice, West Richard, Bonnefoy Lea, Leyrat Cedric, Janssen Michael, Lellouch Emmanuel, Sultana Robin

15:30–15:45: EPSC2018-103

Cassini Observations of Saturn's Irregular Moons

Denk Tilmann, Mottola Stefano

END OF ORAL PROGRAMME OPS2

OPS3 Ocean worlds and Icy Moons

Convener: Alex Hayes

Co-conveners: Jean-Pierre Lebreton; Olivier Witasse; Athena Coustenis; Elizabeth Turtle; Federico Tosi

Lecture Room: Jupiter

16:15–18:00

Chairperson: Athena Coustenis

16:15–16:30: EPSC2018-622

Enceladus' interior, tectonics, and evolution from tidal analysis (solicited talk)

Rhoden Alyssa, Hurford Terry, Henning Wade, Spitale Joseph, Huff Eric

16:30–16:45: EPSC2018-842

Long-term stability of Enceladus' ice shell

Cadek Ondrej, Soucek Ondrej, Behoukova Marie, Choblet Gael, Tobie Gabriel

16:45–17:00: EPSC2018-464

Viscous tidal dissipation in Enceladus's ocean

Rekier Jeremy, Trinh Antony, Triana Santiago, Dehant Veronique

17:00–17:15: EPSC2018-57

Observing the Potential for a Diversity of Metabolic Pathways in the Ocean of Enceladus

Waite J. Hunter, Ray Christine, Glein Chris, Kempf Sascha, Postberg Frank, Lunine Jonathan

17:15–17:30: EPSC2018-1252

Macromolecular organic compounds emerging from the Enceladus ocean

Postberg Frank, Khawaja Nozair, Klein Christopher R., Hsu Hsiang-Wen, Kempf Sascha, Klenner Fabian, Nölle Lenz, Schmidt Juergen, Tobie Gabriel, Waite J. Hunter

17:30–17:45: EPSC2018-655

Rhea's thermal properties and regional anomalies revealed by Cassini's Radar/radiometer

Bonnefoy Lea, Le Gall Alice, Lellouch Emmanuel, Leyrat Cédric, Janssen Michael A.

17:45–18:00: Short Poster Presentation**18:00 Break****18:15–20:00**

Chairperson: Federico Tosi

18:15–18:30: EPSC2018-894

Core-ocean-ice exchange processes in Europa, Ganymede and Callisto (solicited talk)

Tobie Gabriel, Harel Ludivine, Kalousova Klara, Kverka Jakub, Behoukova Marie, Bollengier Olivier, Brown J. Michael, Cadek Ondrej, Choblet Gaël, Dumoulin Caroline, Grasset Olivier, Journaux Baptiste, Postberg Frank, Sotin Christophe, Soucek Ondrej, Vance Steve

18:30–18:45: EPSC2018-246

Layer formation in Europa's subsurface ocean by double-diffusive convection

Wong Teresa, Hansen Ulrich, Wiehoefer Thomas, McKinnon William

18:45–19:00: EPSC2018-539

Exploring Europa's Habitability: The Europa Clipper on the Path to Critical Design

Korth Haje, Pappalardo Robert, Senske David, Klima Rachel, Richey Christina, Craft Kate

19:00–19:15: EPSC2018-203

Observational constraints on the distribution and temperature dependence of H₂O₂ on the surface of Europa

Trumbo Samantha, Brown Michael, Hand Kevin, de Kleer Katherine

19:15–19:30: EPSC2018-470

Heat and water generation in the vicinity of Europa's strike-slip faults

Sládková Kateřina, Soucek Ondrej, Kalousova Klára

19:30–19:45: EPSC2018-443

JUICE: A European mission to explore the emergence of habitable worlds around gas giants

Witasse Olivier and the JUICE Science Working Team and the JUICE Project Team

19:45–20:00: EPSC2018-630

Structural map of the grooves of Ganymede

Rossi Costanza, Cianfarra Paola, Salvini Francesco, Bourgeois Olivier

**END OF MONDAY ORAL PROGRAMME OPS3
ORAL PROGRAMME OPS3 CONTINUES
ON TUESDAY**

Missions, Techniques and Industry

MTI3 Advances in Planetary Mapping, Geographic Information Techniques, and Data Mining

Convener: Anthony Cook

Co-convener: Konrad Willner

Lecture Room: Mars

18:15–20:00

Chairperson: Anthony Cook

18:15–18:30: EPSC2018-50

SPICE for ESA Planetary Missions: geometry and visualization support to studies, operations and data analysis

Costa Marc

18:30–18:45: EPSC2018-53

SPICE-based Python packages for Solar System Exploration geometry exploitation

Costa Marc, Grass Markus

18:45–19:00: EPSC2018-80

An Integrated Software Environment to Improve the Photogrammetric Control Process for Planetary Mapping
Edmundson Kenneth, Archinal Brent, Backer Jeannie, Becker Tammy, Berry Kristin, Combs Christopher, Cook Debbie, Goins Adam, Humphrey Ian, Mapel Jesse, Neubauer Cole, Paquette Adam, Shepherd Makayla, Sides Stuart, Smith Ethan, Stapleton Summer, Sucharski Tracie, Weller Lynn, Wilson Tyler

19:00–19:15: EPSC2018-432

A summary report on 3D imaging software, data and their distribution from the EU FP-7 iMars project

Muller Jan-Peter, Tao Yu, Sidiropoulos Panagiotis

19:15–19:30: EPSC2018-509

Automated feature detection and tracking of RSLs at Valles Marineris through super-resolution restoration and deep learning using HiRISE images and 3D terrain models

Tao Yu, Muller Jan-Peter

19:30–19:45: EPSC2018-367

Crater size-frequency distribution measurements with CSFD Tools

Riedel Christian, Michael Gregory, Kneissl Thomas, Orgel Csilla, Hiesinger Harald, van der Bogert Carolyn H.

19:45–20:00: EPSC2018-442

Geodata workflow for the AMADEE-18 Mars analog mission

Sejkora Nina, Sams Sebastian, **Groemer Gernot**

END OF ORAL PROGRAMME MTI3

MTI7 Planetary in situ measurements

Convener: Axel Hagermann
Co-conveners: Günter Kargl; Erika Kaufmann
Lecture Room: Mars

16:15–18:00

Chairperson: Hagermann

16:15–16:30: EPSC2018-525 (withdrawn)

Dust Cleaning of Solar Arrays on Mars by High Velocity
 Flushing of Pressurized CO₂ Obtained from a Simple
 Thermal Freezing-Sublimation Process
Arias Francisco J

16:30–16:45: EPSC2018-531

The Jovian Dynamics and Composition Analyzer on
 JUICE

Wittmann Philipp, Wieser Martin, Barabash Stas

16:45–17:00: EPSC2018-560

The CheMin X-ray Diffractometer: Results from Mars and
 Prospects for Next Generation XRD Instruments
Blake David, Sarrazin Philippe, Bristow Thomas

17:00–17:15: EPSC2018-789

A miniaturized Raman/LIBS instrument for in-situ
 investigation of celestial bodies in pioneering missions
Kubitza Simon, Vogt David S., Rammelkamp Kristin,
 Böttger Ute, Frohmann Sven, Hansen Peder B., Schröder
 Susanne, Hübers Heinz-Wilhelm

17:15–17:30: EPSC2018-749

LIBS and Raman Data Fusion for in-situ Planetary
 Exploration

Rammelkamp Kristin, Schröder Susanne, Kubitza
 Simon, Vogt David Sebastian, Frohmann Sven, Hansen
 Peder Bagge, Böttger Ute, Hanke Franziska,
 Hübers Heinz-Wilhelm

17:30–17:45: EPSC2018-754

Time-resolved spectral imaging of LIBS plasma at low
 pressures for the exploration of Solar System bodies
Vogt David, Frohmann Sven, Kubitza Simon, Hansen
 Peder, Rammelkamp Kristin, Schröder Susanne,
 Hübers Heinz-Wilhelm

17:45–18:00: EPSC2018-1172

Lithospace: an automated system for in situ petrographic
 thin section preparation on Mars

Foucher Frédéric and the Lithospace team

END OF ORAL PROGRAMME MTI7

Small Bodies (comets, KBOs, rings, asteroids, meteorites, dust)

SB13/MTI8 Sample return missions: lessons learned and future perspectives (co-organized)

Convener: Andrea Longobardo
Co-conveners: Fabrizio Dirri; Maurizio Pajola;
 Sarah-Jane Gill
Lecture Room: Mars

10:45–12:30

Chairpersons: Andrea Longobardo and Maurizio Pajola

10:45–11:05: EPSC2018-668

Chang'E-5 returns to (and from) the Moon: Geological
 characterization of the northern Ocean Procellarum
 landing area (solicited talk)

Qian Yuqi, Xiao Long, Zhao Jiannan, Zhao Siyuan,
Flahaut Jessica, Martinot Melissa, Hiesinger Harry,
 Head James, Huang Jun

11:05–11:25: EPSC2018-587

First results at asteroid (162173) Ryugu from the
 Hayabusa2 near-infrared spectrometer NIRS3
 (solicited talk)

Kitazato Kohei, Iwata Takahiro, Abe Masanao,
 Ohtake Makiko

11:25–11:45: EPSC2018-330

OSIRS-REx@Bennu and Hayabusa2@Ryugu: thermal
 modelling of sample return mission target asteroids
 (solicited talk)

Delbo Marco, Walsh Kevin, Okada Tatsuaki, Tanaka
 Satoshi, Sakatani Naoya, Senshu Hiroki,
 Bibring Jean-Pierre

11:45–12:00: EPSC2018-902

Laboratory studies on thermal modification of mineral
 reflectance spectra in support of OSIRIS-Rex mission
Poggiali Giovanni, Brucato John Robert, Fornaro Teresa,
 Corazzi Maria Angela

12:00–12:15: EPSC2018-752

Mars Sample Return Science—How Should it be
 Organised Into Objectives?

Smith Caroline and the International Mars Sample
 Return Samples and Objectives Team (iMOST)

12:15–12:30: EPSC2018-1057

Mars Sample Return Engineering - A reference
 architecture for joint ESA-NASA studies and early mission
 concepts

Vijendran Sanjay, Edwards Charles, Muirhead Brian,
 Huesing Jakob, Duvet Ludovic, Beyer Friederike

12:30 Lunch break

14:00–15:45**Chairpersons:** Fabrizio Dirri and Sarah Jane-Gill**14:00–14:20: EPSC2018-122**

The CAESAR New Frontiers Mission: Returning a Sample of a Cometary Nucleus (solicited talk)

Lunine Jonathan I., Nakamura-Messenger Keiko, Mitchell David F., Moran Vickie E., Houghton Martin B., Glavin Daniel P., Hayes Alex G., Lauretta Dante S., Squyres Steven W.**14:20–14:40: EPSC2018-227**

Will Europe never have a small body sample return mission? (solicited talk)

Barucci Maria Antonietta, Franchi Ian A., Brucato John R., Green Simon, Michel Patrick**14:40–15:00: EPSC2018-398**

European Curation of Astromaterials Returned from the Exploration of Space (EURO-CARES) - A roadmap for a European Sample Return Curation Facility (solicited talk)

Smith Caroline, Russell Sara, Brucato John Robert, Meneghin Andrea, Ferrière Ludovic, Hutzler Aurore, Aléon Jérôme, Westall Frances, Berthoud Lucy**15:00–15:15: EPSC2018-690**

Use of the correlation matrix approach to define the life detection techniques in a sample curation facility

Meneghin Andrea, Brucato John Robert, Russell Sara, Smith Caroline, Rettberg Petra, Pottage Tom, Bennett Allan, Hutzler Aurore**15:15–15:30: EPSC2018-368**Solar wind-induced space weathering on asteroid Itokawa
Harries Dennis, Matsumoto Toru, Fazio Agnese, Uesugi Masayuki, Langenhorst Falko**15:30–15:45: EPSC2018-402**Planetary Sample Analysis Laboratory (SAL) at DLR
Helbert Jörn, Maturilli Alessandro, de Vera Jean-Pierre**END OF ORAL PROGRAMME SB13/MT18****SB14 Small Bodies as Granular Systems****Convener:** Daniel Hestroffer**Co-conveners:** Nicolas Taberlet; Paolo Tanga**Lecture Room:** Venus**10:45–12:30****Chairperson:** Hestroffer**10:45–11:00: EPSC2018-800**

Experimental Insights on the Densification of Regoliths by Thermal Cycling

Curren Ivy, Aharonson Oded**11:00–11:15: EPSC2018-214**

Sintering of micrometer-sized water-ice particles

Gundlach Bastian, Ratte Judy, Blum Jürgen, Oesert Joachim, Gorb Stanislav N.**11:15–11:30: EPSC2018-1056**

A code for the study of gravitational aggregates with non-spherical particles

Ferrari Fabio, Lavagna Michèle**11:30–11:45: EPSC2018-581**

Numerical simulations of a lander's interaction with a low-gravity asteroid regolith surface: application to MASCOT on board Hayabusa2

Thuillet Florian, Michel Patrick, Maurel Clara, Ballouz Ronald-Louis, Zhang Yun, Richardson Derek C., Biele Jens, Tatsumi Eri, Sugita Seiji**11:45–12:00: EPSC2018-801**

Thermal Inertia of Binary Near-Earth Asteroids

Rozitis Ben, Brown Eloise, Green Simon, Lowry Stephen, Fitzsimmons Alan, Rozek Agata, Snodgrass Colin, Weissman Paul, Zegmott Tarik**12:00–12:15: EPSC2018-421**

An Ultra-Low-Gravity Centrifuge in Low-Earth Orbit

Schwartz Stephen, Asphaug Erik, Thanga Jekan, Nallapu Ravi, Vance Leonard**12:15–12:30: EPSC2018-568**

What's Inside a Rubble Pile Asteroid? DISCUS - a Tomographic Twin Radar Cubesat to Find Out

Deller Jakob, Patrick Bambach, Esa Vilenius, Sampsa Pursianen, Mika Takala, Braun Hans Martin, Lentz Harald, Wittig Manfred**END OF ORAL PROGRAMME SB14****SB16 Observing and modelling meteors in planetary atmospheres****Convener:** Maria Gritsevich**Co-conveners:** Jürgen Oberst; Apostolos Christou; Elizabeth Silber; Josep Maria Trigo-Rodríguez**Lecture Room:** Venus**16:15–17:55****Chairperson:** Maria Gritsevich**16:15–16:35: EPSC2018-775**

Extra-terrestrial meteors: a review (solicited talk)

Christou Apostolos, Vaubaillon Jeremie, Withers Paul, Hueso Ricardo**16:35–16:55: EPSC2018-1226**

Investigating fireball flight in three dimensions (solicited talk)

Sansom Eleanor, Jansen-Sturgeon Trent, Rutten Mark, Devillepoix Hadrien, Bland Philip**16:55–17:10: EPSC2018-976**

Computing mass indices of meteor showers with BRAMS data

Lamy Hervé, Anciaux Michel, Verbeeck Cis, Tétard Cédric, Calders Stijn, Martinez Picar Antonio**17:10–17:25: EPSC2018-271**

Redox reactions in meteoroid atmospheric entry reproduced in plasma experiments

Pittarello Lidia, **Giuli Gabriele**, Goderis Steven, Soens Bastien, McKibbin Seann J., Bariselli Federico, Barros Dias Bruno Ricardo, Zavalan Luiza, Lepore Giovanni, Orazio, Koeberl Christian, Helber Bernd, Magin Thierry, Claeys Philippe

17:25–17:40: EPSC2018-495

Shock layer radiation of an evaporating meteor
Dias Bruno, Scoggins James B., Magin Thierry

17:40–17:55: EPSC2018-277

Simulating Atmospheric Alteration to Micrometeorites using a Two Stage Light Gas Gun.

Alesbrook Luke, Price Mark, Wozniakiewicz Penelope, Cole Mike, Avdellidou Chrysa, Burchell Mark, Hasan Ayjaz, Tabata Makoto

17:55 Break**18:15–20:05**

Chairperson: Jürgen Oberst

18:15–18:30: EPSC2018-1105

FRIPON and IMPACT projects to pinpoint interplanetary matter in the centimetre - hundred meter range (solicited talk)

Colas Francois, Baillié Kevin, Bouley Sylvain, Zanda Brigitte, Vaubaillon Jérémie, Jeanne Simon, Egal Auriane, Vernazza Pierre, Gattacceca Jérôme, Birlan Mirel, Baratoux David, Sylla Salma, Jorda Laurent, Rault Jean-Louis, Caminade Stéphane, Delcroix Marc, Maquet Lucie, Blanpain Cyrille, Steinhauser Asma, Lecubin Julien, Malgoire Adrien

18:30–18:45: EPSC2018-826

Meteor activities within the BigSkyEarth COST Action: enabling new approaches in modeling and observations (solicited talk)

Butka Peter, Vinković Dejan, Gritsevich Maria, Cellino Alberto, Bertaina Mario, Mönkölä Sanna, Moreno-Ibáñez Manuel, Nico Giovanni, Nina Aleksandra, Srečković Vladimir, Mitrović Srdjan, Mateus Pedro

18:45–19:00: EPSC2018-812

Validation of Knudsen numbers and flow regimes for well-characterized centimetre-sized meteoroids (solicited talk)

Moreno-Ibáñez Manuel, Silber Elizabeth A., Gritsevich Maria, Trigo-Rodríguez Josep M.

19:00–19:10: EPSC2018-1093

Russian fireball network for meteorite recovery and meteor observations

Kruglikov Nikolai A., Krushinsky Vadim, Nazarov Sergey, Kutkov Oleg, Yankovsky Ilya, Grokhovsky Viktor, Borbolin Andrey, Kruglikov Nikolai N.

19:10–19:20: EPSC2018-979

The Perseids: Results from 7 years of observations with the SPOSH camera

Margonis Anastasios, Oberst Jürgen, Christou Apostolos

19:20–19:35: EPSC2018-546

Regular and transitory showers of comet C/1979 Y1

Hajdukova Maria, Neslusan Lubos

19:35–19:50: EPSC2018-397

Geminid meteor shower activity should increase

Ryabova Galina, Rendtel Jurgen

19:50–20:05: EPSC2018-946

Impact-classification scheme based on the fireball analysis: a preliminary study

Gritsevich Maria, Silber Elizabeth

END OF ORAL PROGRAMME SB16**SB19/OPS12/EXO6 Planetary Rings (co-organized)**

Convener: Holger Hoffmann

Co-conveners: Jürgen Schmidt; Frank Spahn

Lecture Room: Uranus

10:45–12:25

Chairperson: Holger Hoffmann

10:45–11:05: EPSC2018-177

Cassini observations of the outer edge of Saturn's A ring (solicited talk)

Murray Carl, Cooper Nicholas

11:05–11:25: EPSC2018-1277

What confines the rings of Saturn? (solicited talk)

Tajeddine Radwan, Nicholson Philip D., Longaretti Pierre-Yves, El Moutamid Maryame, Burns Joseph A.

11:25–11:35: EPSC2018-756

Hydrodynamic Simulations of Asymmetric Propeller Structures in the Saturnian Ring System

Seiler Michael, Reiß Martin, Hoffmann Holger, Spahn Frank

11:35–11:45: EPSC2018-1224

Modeling the size-distribution and granular velocity distribution in Saturn's rings

Seyfarth Eric, Spahn Frank

11:45–11:55: EPSC2018-113

Spin-orbit resonances around an ringed elongated body: beyond the first order

Sicardy Bruno

11:55–12:05: EPSC2018-1198

Apse-alignment in narrow-eccentric ringlets. The comparative case of the ϵ -ring of Uranus and the ring system of (10199) Chariklo.

Melita Mario

12:05–12:15: EPSC2018-1225

The dust environment of Saturn within Saturn's D ring: CDA results of the Grand Finale of Cassini

Srama Ralf, Hsu Sean, Kempf Sascha, Moragas-Klostermeyer Georg, Horanyi Mihaly, Postberg Frank, Khawaja Nozair, Simolka Jonas, Altobelli Nicolas, Albin Thomas, Spahn Frank, Seiss Martin

12:15–12:25: EPSC2018-401

Detecting rings around exoplanets

Akinsanmi Babatunde, Oshagh Mahmoudreza, Santos Nuno, Barros Susana

Poster Introduction**END OF ORAL PROGRAMME SB19/OPS12/EXO6**

Outreach, Education and Policy

OEP3 Europlanet Public Engagement Prize and Funding Scheme Showcase

Convener: Eleni Chatzichristou

Lecture Room: Venus

14:00–15:45

Chairperson: Eleni Chatzichristou

14:00–15:25: Europlanet Funding Winners will shortly present their winning projects
(details are given in the poster session)

15:25–15:45: Europlanet Prize Winners will discuss efforts to engage audiences with planetary science
(details are given in the poster session)

END OF ORAL PROGRAMME OEP3

Terrestrial Planets

TP5 Atmospheres of terrestrial planets

Convener: Anni Määttänen
Co-conveners: Olivier Witasse;
 Francisco González-Galindo; Dmitrij Titov
Lecture Room: Saturn

08:30–10:00

Mars middle and lower atmosphere - observations

08:30–08:45: EPSC2018-911

Retrieval and characterization of carbon monoxide (CO) vertical profiles in the Martian atmosphere from observations of PFS/MEX

Bouche Jimmy, Giuranna Marco, Coheur Pierre-Francois, Aoki Shohei, Robert Séverine, Wolkenberg Paulina, Vandaele Ann Carine, Erwin Justin T., Daerden Frank, Bauduin Sophie

08:45–09:00: EPSC2018-708

Creating a priori atmospheres from GEM-Mars GCM for the investigation of Mars

Erwin Justin, Neary Lori, Daerden Frank, Viscardy Sébastien, Aoki Shohei, Robert Séverine, Vandaele Ann Carine

09:00–09:15: EPSC2018-434

Impact of gradients at the Martian terminator on the retrieval of ozone from SPICAM/MEx

Piccialli Arianna, Vandaele Ann Carine, Trompet Loic, Neary Lori, Viscardy Sébastien, Daerden Frank, Robert Séverine, Aoki Shohei, Willame Yannick, Wilquet Valerie, Lefevre Franck, Määttänen Anni, Montmessin Franck

09:15–09:30: EPSC2018-564

Analysis of Recalibrated Phoenix Relative Humidity Sensor Data

Fischer Erik, Martinez German, Renno Nilton

09:30–09:45: EPSC2018-1029

Spectral Scan and Line Catalogue of the Martian Atmosphere from Herschel/HIFI Observations

Rengel Miriam, Jarchow Christopher, Hartogh Paul

Pluto

09:45–10:00: EPSC2018-600

High resolution 3D global climate modelling of Pluto's atmosphere to interpret New Horizons observations

Bertrand Tanguy, Forget Francois

END OF ORAL PROGRAMME TP5

TP6/SB21 Ionospheres of Unmagnetized Bodies in the Solar System: Terrestrial Planets and comets (co-organized)

Convener: Beatriz Sanchez - Cano
Co-conveners: Pierre Henri;
 Francisco González-Galindo; Chris Fowler;
 Matteo Crismani
Lecture Room: Neptune

14:00–15:45

Chairpersons: Beatriz Sanchez-Cano, Pierre Henri

14:00–14:15: EPSC2018-97

Overview of the Ionosphere of Unmagnetized Solar System Bodies (solicited talk)

Cravens Thomas

14:15–14:30: EPSC2018-274

Cometary plasma response to interplanetary corotating interaction regions during 2016 June - September: a quantitative study by the Rosetta Plasma Consortium

Hajra Rajkumar, Henri Pierre, Myllys Minna, Heritier Kevin, Galand Marina, Simon Wedlund Cyril, Breuillard Hugo, Behar Etienne, Edberg Niklas, Goetz Charlotte, Nilsson Hans, Eriksson Anders, Goldstein Raymond, Tsurutani Bruce, More Jerome, Vallieres Xavier, Wattieaux Gaetan

14:30–14:45: EPSC2018-605

The Martian Ionosphere's Response to Solar drivers

Andersson Laila, Fowler Chris, Fillingam Matt, Halekas Jasper, Espley Jared, Thiemann Ed, Mitchell Dave, McFadden Jim, Elrod Meredith, DiBraccio Gina

14:45–15:00: EPSC2018-964

Observations of a Solar Energetic Particle event from inside the comet 67P coma and upstream of the comet

Wellbrock Anne, Jones Geraint, Coates Andrew, Simon Wedlund Cyril, Goetz Charlotte, Dresing Nina, Nordheim Tom, Mandt Kathleen, Hajra Rajkumar, Myllys Minna, Henri Pierre, Nilsson Hans

15:00–15:15: EPSC2018-33

Corkscrew Flow Motion of Planetary Ions in the Venus Plasma Wake

Perez-de-Tejada Hector, Lundin Rickard

15:15–15:30: EPSC2018-85

Variability of the martian upper ionosphere and ion escape

Dubin Edvard, Fraenz Markus, Paetzold Martin, Andersson Laila, McFadden Jim, Halekas Jasper, Connerney Jack, Eparvier Frank, Mahaffy Paul, Vaisberg Oleg, Zelenyi Lev

15:30–15:45: EPSC2018-940

Modelling Flux Ropes in the Ionosphere of Titan

Martin Carley, Arridge Chris, Badman Sarah, Ray Licia, Russell Christopher, Wei Haiying, Dougherty Michele

15:45 Coffee break

16:15–18:00

Chairpersons: Pierre Henri,
Francisco Gonzalez-Galindo

16:15–16:30: EPSC2018-417

Comparative aeronomy of cometary and planetary ionospheres: solar energy deposition and plasma loss (solicited talk)

Beth Arnaud

16:30–16:45: EPSC2018-137

MARSIS observations of field-aligned irregularities and ducted radio propagation in the Martian ionosphere

Andrews David, Opgenoorth Hermann, Leyser Thomas, Bucher Stephan, Edberg Niklas, Morgan David, Gurnett Donald, Kopf Andrew, Fallows Katy, Withers Paul

16:45–17:00: EPSC2018-954

Temperature anisotropies of proton velocity distributions in the plasma environment of Venus

Bader Alexander, **Stenberg Wieser Gabriella**, André Mats, Wieser Martin, Futaana Yoshifumi, Persson Moa, Nilsson Hans, Zhang Tielong

17:00–17:15: EPSC2018-1094

Cold Electrons at Comet 67P

Eriksson Anders, Engelhardt Ilka, Vigren Erik, Johansson Fredrik, Odelstad Elias, Edberg Niklas, Henri Pierre, Gilet Nicolas, Rubin Martin

17:15–17:30: EPSC2018-707

First Global Model of Meteoric Magnesium in the Martian Atmosphere

Plane John, González-Galindo Francisco, Carrillo-Sánchez Juan Diego, Chaufray Jean-Yves, Forget Francois, Crismani Matteo, Schneider Nicholas

17:30–17:45: EPSC2018-993

Low energy ion measurements at comet 67P

Johansson Fredrik Leffe, Odelstad Elias, Vigren Erik, Eriksson Anders, Henri Pierre

17:45–18:00: EPSC2018-444

Indirect identification of a low-altitude layer in the Martian nightside ionosphere during a space weather event with Mars Express-MARSIS radar data

Sanchez - Cano Beatriz, Lester Mark, Witasse Olivier, Cartacci Marco, Brelly Pierre-Louis, Opgenoorth Hermann, Leblanc François, Lillis Rob, Floury Nicolas

END OF ORAL PROGRAMME TP6/SB21

Lunar Science and Exploration**LSE1/TP15 Late Accretion of the Moon, Earth, and other Terrestrial Planets (co-organized)**

Convener: Gregory Michael

Co-conveners: Elena Martellato; Sabrina Schwinger; Emily Worsham

Lecture Room: Venus

08:30–10:15

Chairpersons: S. Schwinger, E. Worsham

08:30–08:45: EPSC2018-196

Sequential Giant Impacts

Emsenhuber Alexandre, Asphaug Erik

08:45–09:00: EPSC2018-121

Application of Machine Learning to Giant Impact Studies

Cambioni Saverio, Gabriel Travis J.S, Asphaug Erik, Furfaro Roberto, Emsenhuber Alexandre, Schwartz Stephen

09:00–09:15: EPSC2018-501

Realistic modeling of water transport to terrestrial planets by combining long-term dynamics and collision physics

Burger Christoph, Schäfer Christoph, Bazso Akos

09:15–09:30: EPSC2018-688

A long-lived lunar magma ocean

Maurice Maxime, Tosi Nicola, Schwinger Sabrina, Breuer Doris

09:30–09:45: EPSC2018-1097

A Single Plume Upwelling on Lunar Near Side that Provides a Source for Titanium-rich Volcanism

Zhao Yue, Plesa Ana-Catalina, Breuer Doris, Laneuville Matthieu, van Westrenen Wim

09:45–10:00: EPSC2018-566

The effect of temperature distribution in the lunar mantle on the bulk composition of the Moon

Kronrod Ekaterina, Kuskov Oleg, Kronrod Victor

10:00–10:15: EPSC2018-360

The age of lunar impact melt rock 67935 - Imbrium or not?

Haber Thomas, Scherer Erik E.

END OF ORAL PROGRAMME LSE1/TP15

LSE5 Lunar Volatiles

Convener: Kathleen Mandt

Co-conveners: Olivier Mousis; Wes Patterson;
Elliot Sefton-Nash

Lecture Room: Venus

10:45–12:30

Chairpersons: Elliot Sefton-Nash & Kathleen Mandt

10:45–11:00: EPSC2018-238

The Depth of Simple Craters and the Shadows they Cast:
Evidence for Ice on Mercury and the Moon (withdrawn)
Rubanenko Lior, Venkatraman Jaahnavee, Paige David

11:00–11:15: EPSC2018-450

Estimating sub-pixel lunar block distributions
Klem Susan, Robinson Mark

11:15–11:30: EPSC2018-530

Probing the volatile reservoirs in the Moon using lunar
meteorites
Anand Mahesh, Stephant Alice

11:30–11:45: EPSC2018-1091

Far-IR Emissivity in Lunar South Polar Permanently
Shaded Terrain: Apparent Temperature Dependence
Sefton-Nash Elliot, Williams Jean-Pierre, Bandfield
Joshua, Warren Tristram, Greenhagen Benjamin,
Paige David

11:45–12:00: EPSC2018-729

Mini-RF S- and X-band Bistatic Observations of South
Polar Craters on the Moon
Patterson Wes, Prem Parvathy, Stickle Angela,
Cahill Joshua

12:00–12:15: EPSC2018-1123

Observations of illumination conditions in the
Permanently Shadowed Regions (PSRs) with LRO-LAMP
Mandt Kathleen, Mazarico Erwan, Greathouse Thomas,
Retherford Kurt, Gladstone G. Randall, Byron Ben, Hurley
Dana, Stickle Angela, Patterson G. Wes, Hendrix
Amanda, Williams Jean-Pierre, Liu Yang, Lemelin Myriam

12:15–12:30: EPSC2018-1028

In-situ analysis of lunar regolith with the gas
chromatograph-neutral gas mass spectrometer on the
Luna-Resurs lander
Fausch Rico, Wurz Peter, Lase Davide, Tulej Marek,
Cabane Michael, Szopa Cyril, Sapgir Alexandr,
Gerasimov Mikhail

END OF ORAL PROGRAMME LSE5

LSE6/MTI10 Science and Innovation for the Moon Village and beyond (co-organized)

Convener: Bernard Foing

Co-conveners: Chrysa Avdellidou;
Germaine Van der Sanden; Christiane Heinicke

Lecture Room: Venus

14:00–15:45

14:00–14:15: EPSC2018-176

Environmental ethics in outer space - Long term
sustainability of the human species
Owe Andrea

14:15–14:30: EPSC2018-322

Moon and Mars habitation in lava tubes: The first
explorers will be cave men again. Stefánshellir test site in
Iceland
Gasser Martin, Dunn Michael Chalmer

14:30–14:45: EPSC2018-347

LOGOS : Lunar Organisms, GeoMicrobiology and
Organic Compound Space Experiment
de Vera Jean-Pierre Paul and the LOGOS Team

14:45–15:00: EPSC2018-349

Future Low-Cost Lunar and Planetary Missions Enabled
by Commercial Space Companies
Berinstain Alain, Richards Robert

15:00–15:15: EPSC2018-599

Updated Design Concepts of the Moon and Mars Base
Analog (MaMBA)
Heinicke Christiane, Orzechowski Leszek, Abdullah
Rawel, von Einem Maria, Arnhof Marlies

15:15–15:30: EPSC2018-720

NASA SSERVI: Merging Science and Human Exploration
Schmidt Gregory, Gibbs Kristina, Bailey Brad,
Pendleton Yvonne

15:30–15:45: EPSC2018-713

NASA's Solar System Exploration Research Virtual
Institute: Building Collaboration Through International
Partnerships
Gibbs Kristina, Schmidt Greg, Pendleton Yvonne,
Bailey Brad

15:45 Coffee break

16:15–18:00

16:15–16:30: EPSC2018-999

HERACLES - Exploring the Moon in an International
Context
Landgraf Markus, Carey William, Hipkin Victoria,
Carpenter James, Hiesinger Harald

16:30–16:45: EPSC2018-1015

Surface characterization of potential lunar polar landing
sites with accuracy up to 7 m
Djachkova Maya, Mitrofanov Igor, Sanin Anton, Litvak
Maxim, Tretyakov Vladislav

16:45–17:00: EPSC2018-1247

EuroMoonMars Workshop 2018: a pilot study on a semi-autonomous laboratory module for analogue simulations

van der Sanden Germaine, Foing Bernard, Clavé Elise, Dubois Louis and the EuroMoonMars 2018 team

17:00–17:15: EPSC2018-1253

Considerations on instruments for astrobiological investigations in a Moon/Mars laboratory

Baqué Mickael, Verseux Cyprien, de Vera Jean-Pierre, Heinicke Christiane

17:15–17:30: EPSC2018-1255

Synergies between geological laboratory analyses on the Moon and Mars

Adeli Solmaz, Ormö Jens, Jaret Steven, Heinicke Christiane

17:30–17:45: EPSC2018-1256

The JULES VERNE 2028 project

Foucher Frédéric and the Jules Verne 2028 consortium

17:45–18:00: EPSC2018-1278

Planetary Science in Analogs in Lunares habitat.

Kołodziejczyk Agata, Harasymczuk Matt, Orzechowski Leszek, Lillo Arthur, Foing Bernard

**END OF TUESDAY ORAL PROGRAMME LSE6/MTI10
ORAL PROGRAMME LSE6/MTI10 CONTINUES ON
FRIDAY**

Outer Planet Systems

OPS1 Outer planets systems and Pluto

Convener: Athena Coustenis

Co-conveners: Glenn Orton; Sushil K. Atreya; Leigh Fletcher; Nicolas Altobelli

Lecture Room: Jupiter

10:45–12:15

Chairpersons: A. Coustenis and N. Krupp

10:45–11:00: EPSC2018-590

Exploring the Atmosphere of Jupiter with Ultraviolet Spectroscopy

Melin Henrik, Fletcher Leigh, Antunano Martin Arrate, Blake James, Donnelly Padraig, Rowe-Gurney Naomi

11:00–11:15: EPSC2018-834

Forward and inverse kinetic energy cascades in Jupiter's turbulent weather layer

Young Roland, Read Peter

11:15–11:30: EPSC2018-949

Global Flows Of Energetic Ions In Jupiter's Equatorial Plane During The Galileo Era 1995-2003

Krupp Norbert, Palmearts Benjamin, Roussos Elias, Fraenz Markus, Bagenal Fran, Wilson Robert, Paranicas Chris, Khurana Krishan

11:30–11:45: EPSC2018-1050

Modeling atmospheric dynamics in Jupiter's troposphere

Boissinot Alexandre, Spiga Aymeric, Guerlet Sandrine, Cabanes Simon

11:45–12:00: EPSC2018-79

Saturn atmospheric dynamics after Cassini from ground-based observations in the visible punctuated by HST/OPAL yearly observations

Hueso Ricardo, Sánchez-Lavega Agustín, Simon Amy, Wong Mike, Delcroix Marc, Rojas Jose Félix, Colas François, Gómez-Forrellad Josep María, Barry Trevor

12:00–12:15: EPSC2018-185

A new polar storm and a long-lived equatorial disturbance in Saturn's post-Cassini era

Sanchez-Lavega Agustin, Hueso Ricardo, del Rio-Gaztelurrutia Teresa, García-Melendo Enrique, Soria Guerrero Manel, Legarreta Jon, Simon Amy, Wong Mike, Gomez-Forrellad Josep M., Delcroix Marc

12:15 Lunch break**14:00–15:45**

Chairpersons: R. Hueso and S. Rafkin

14:00–14:15: EPSC2018-898

Survey of lion roar emissions observed in Saturn's magnetosheath by Cassini

Piša David, Sulaiman Ali H., Santolik Ondrej, Hospodarsky George B., Kurth William S., Gurnett Donald A.

14:15–14:30: EPSC2018-247

Formation of Saturn's small inner moons by collisions of similar-sized moonlets

Leleu Adrien, Jutzi Martin, Rubin Martin

14:30–14:45: EPSC2018-306

Saturn's decisive role in the formation of the Galilean system

Ronnet Thomas, Mousis Olivier, Vernazza Pierre, Lunine Jonathan, Crida Aurélien

14:45–15:00: EPSC2018-569

Giant Impacts Around Saturn

Asphaug Erik, Emsenhuber Alexandre

15:00–15:15: EPSC2018-208

The deep winds of Jupiter and Saturn as inferred from recent gravity measurements - similarities and differences

Galanti Eli, Kaspi Yohai, Durante Daniele, Racioppa Paolo, Iess Luciano

15:15–15:30: EPSC2018-169

Evolution of Titan's atmospheric temperature and composition near the poles from Cassini/CIRS

Coustenis Athena, Jennings Donald, Achterberg Richard, Bampasidis Georgios, Nixon Conor, Lavvas Panayotis, Cottini Valeria, Flasar F. Michael

09:15–09:30: EPSC2018-872

Detection and dynamics of Martian plasma boundaries
Garnier Philippe, Ecoffet David, Génot Vincent, Aunai Nicolas, Nguyen Gautier, Mazelle Christian, Fang Xiaohua, Hall Benjamin, Masunaga Kei

09:30–09:45: EPSC2018-1082

Radiation environment at candidate landing sites on Mars: effects of Solar activity and of albedo neutrons for different mineralogical content

Da Pieve Fabiana, Botek Edith, Vandaele Ann Carine

09:45–10:00: EPSC2018-9

Solar Radiation for Protection of Solar Radiation on Spacecrafts and Lunar Settlements. Or the use of Miniature Magnetospheres Induced by the Photoelectric Effect

Arias Francisco J

END OF ORAL PROGRAMME MSP1/MD9

MSP2/MD8 Global modelling and remote sensing of planetary magnetospheric dynamics (co-organized)

Convener: Graziella Branduardi-Raymont

Co-conveners: Caitriona Jackman; Norbert Krupp

Lecture Room: Neptune

10:45–12:30

Chairperson: G. Branduardi-Raymont

10:45–10:50: Introduction**10:50–11:05: EPSC2018-15**

Limit Cycles in a Toy Model of "Earth-like" Magnetotail Dynamics

Burston Robert

11:05–11:20: EPSC2018-332

Subsolar magnetopause and cusp positions: comparison of MHD and empirical models

Samsonov Andrey, Branduardi-Raymont Graziella

11:20–11:35: EPSC2018-350

Constraining Ganymede's exosphere through numerical simulations of its ionosphere and Galileo observations

Carnielli Gianluca, Galand Marina, Modolo Ronan, Leblanc François, Beth Arnaud, Huybrighs Hans, Jia Xianzhe

11:35–11:50: EPSC2018-619

Imaging of energetic neutral atoms with the Jovian Neutral Atoms Analyser onboard JUICE: Charge exchange ENAs near Ganymede

Neuland Maïke Brigitte, Futaana Yoshifuma, Fatemi Shahab, Shimoyama Manabu, Vorbürger Audrey, Wurz Peter, Wieser Martin, Barabash Stas

11:50–12:05: EPSC2018-1234

Saturn's northern aurorae at solstice from HST observations coordinated with Cassini's Grand Finale (withdrawn)

Lamy Laurent, Prangé Renée, Tao Chihiro, Kim Tae, Badman Sarah, Zarka Philippe, Cecconi Baptiste, Kurth William, Pryor Wayne, Bunce Emma, Radioti Aikaterina

12:05–12:20: EPSC2018-1257

Magneto-convection scaling in the Terrestrial planets
Starchenko Sergey

12:20–12:30: Poster highlights and Conclusions**END OF ORAL PROGRAMME MSP2/MD8**

Modelling and Database

MD4 Solar and Planetary Data system Interoperability

Convener: Baptiste Cecconi

Co-conveners: Stéphane Erard; Vincent Génot;

Angelo Pio Rossi

Lecture Room: Uranus

08:30–10:15**08:30–08:45: EPSC2018-348**

Virtual European Solar & Planetary Access (VESPA): Year 3

Erard Stéphane, Cecconi Baptiste, Le Sidaner Pierre, Rossi Angelo Pio, Capria Teresa, Schmitt Bernard, Génot Vincent, André Nicolas, Glorian Jean-Michel, Vandaele Ann Carine, Scherf Manuel, Hueso Ricardo, Määttänen Anni, Carry Benoît, Achilleos Nicholas, Marmo Chiara, Santolik Ondrej, Soucek Jan, Benson Kevin, Fernique Pierre

08:45–09:00: EPSC2018-445

PlanetServer - A web GIS and Python API for planetary hyperspectral images analysis

Marco Figueroa Ramiro, Pham Huu Bang, Pio Rossi Angelo, Minin Mikhail, Baumann Peter

09:00–09:15: EPSC2018-529

SSHADE: the European solid spectroscopy database infrastructure

Schmitt Bernard, Bollard Philippe, Garenne Alexandre, Albert Damien, Bonal Lydie, Poch Olivier and the SSHADE Consortium

09:15–09:30: EPSC2018-799

Data exploration in the ESA Planetary Science Archive - current status and future plans

Bentley Mark, Barthelemy Maud, Besse Sebastien, Fraga Diego, Grotheer Emmanuel, Heather Dave, Martinez Santa, Merin Bruno, De Marchi Guido, Lim Tanya

09:30–09:45: EPSC2018-822

MASER: A Toolbox for Low Frequency Radio Astronomy
Cecconi Baptiste

09:45–10:00: EPSC2018-1058

The Use of Git in Planetary Science Research
Frigeri Alessandro

10:00–10:15: EPSC2018-1194

MATISSE web-tool functions integration into VESPA-Europlanet 2020 infrastructure: real-time computation and visualization of aerodynamic coefficients for convex objects moving in a rarefied gas field

Ivanovski Stavro, Zinzi Angelo, Capria Maria Teresa, Giardino Marco, Erard Stephane, Longobardo Andrea, Fonte Sergio, Antonelli Angelo, Della Corte Vincenzo, Rotundi Alessandra, Zakharov Vladimir

END OF ORAL PROGRAMME MD4

Exoplanets and Origins

EXO3 Future instruments to detect and characterise extrasolar planets

Convener: Paul Eccleston

Co-conveners: Camilla Danielski; Enzo Pascale

Lecture Room: Mars

08:30–10:15

Chairperson: Enzo Pascale

Current and Future Space Missions and Instrumentation

08:30–08:55: EPSC2018-1230

The Transiting Exoplanet Survey Satellite (TESS): Searching for Planets Around Nearby Stars

Rinehart Stephen

08:55–09:15: EPSC2018-82

CHEOPS, presentation of the scientific program of the mission consortium

Queloz Didier, **Benz Willy**

09:15–09:30: EPSC2018-969

PLATO Science: main goals and expected achievements

Piotto Giampaolo

09:30–09:45: EPSC2018-1020

PLATO: the instrument and the science preparation

Pagano Isabella and the PLATO collaboration

09:45–10:05: EPSC2018-184

A summary of the payload design for ARIEL

Eccleston Paul, Tinetti Giovanna

10:05–10:15: EPSC2018-975

Twinkle - A Commercial Space Science Satellite

Tessenyi Marcell, Tinetti Giovanna, Tennyson Jonathan, Savini Giorgio, Edwards Billy, Pascale Enzo, Jason Susan, Vora Amar

10:15 Coffee break

10:45–12:30

Chairperson: Camilla Danielski

10:45–11:00: EPSC2018-1055

The JWST Transiting Exoplanet Community Early Release Science Program

Crouzet Nicolas and the JWST Transiting Exoplanet ERS Team

11:00–11:15: EPSC2018-923

The JWST Early Release Science Program for Directly Imaging Exoplanetary Systems

Hinkley Sasha, Carter Aarynn, Biller Beth, Skemer Andrew

11:15–11:30: EPSC2018-621

VUV Spectroscopy for terrestrial exoplanetary exosphere

Kameda Shingo, Tavrov Alexander, Osada Naoya, Murakami Go, Enya Keigo, Ikoma Masahiro, Narita Norio, Korablev Oleg

Future Ground Based Facilities and Instruments

11:30–11:45: EPSC2018-778

Giant planet direct imaging with first light instruments on ELT

Boccaletti Anthony

11:45–12:00: EPSC2018-958

Expected performance of ELT/HARMONI for giant exoplanets detection and characterization (withdrawn)

Vigan Arthur, Carlotti Alexis, Mouillet David, Chauvin Gaël

12:00–12:15: EPSC2018-1267

The ExoLife Finder Telescope (ELF) : an extremely large telescope dedicated to extremely high contrast

Langlois Maud

12:15–12:30: EPSC2018-1147

NIRPS: Near-Infrared Planet Searcher to join HARPS on the ESO 3.6-m telescope

Bouchy Francois, Doyon Rene

END OF ORAL PROGRAMME EXO3

EXO4/TP14/OPS9/MD6 Matter Under Planetary Interior Conditions (co-organized)

Convener: Frank Sohl

Co-conveners: Martin French; Zuzana Konopkova;

Sebastiano Padovan

Lecture Room: Mars

14:00–15:35

Chairpersons: F. Sohl, Z. Konopkova

14:00–14:15: EPSC2018-1235

Miscibility gap of hydrogen-helium mixtures

Schöttler Manuel, Redmer Ronald

14:15–14:30: EPSC2018-276

Towards a new tool for modelling non-adiabatic giant planets

Scheibe Ludwig, Nettelmann Nadine, Redmer Ronald

14:30–14:50: EPSC2018-1195

Jupiter internal structure: the role of the equations of state (solicited talk)

Miguel Yamila, Guillot Tristan

14:50–15:05: EPSC2018-310

Measurability of the fluid Love number k_2 in WASP-121b
Hellard Hugo, Csizmadia Szilard, Padovan Sebastiano, Sohl Frank, Breuer Doris, Spohn Tilman, Rauer Heike

15:05–15:20: EPSC2018-684

Fluid Love numbers with the matrix propagator method with an application to GJ436b
Padovan Sebastiano, Breuer Doris, Csizmadia Szilard, Hugo Hellard, Rauer Heike, Sohl Frank, Spohn Tilman

15:20–15:35: EPSC2018-858

Interior structure of WASP-18b through its apsidal motion
Csizmadia Szilard, Hellard Hugo, Smith Alexis

END OF TUESDAY ORAL PROGRAMME

EXO4/TP14/OPS9/MD6

EXO4/TP14/OPS9/MD6 ORAL PROGRAMME
CONTINUES ON THURSDAY

Small Bodies (comets, KBOs, rings, asteroids, meteorites, dust)

SB4 Asteroids and parent bodies of meteorites: Observations, experiments, models

Convener: Wladimir Neumann

Co-conveners: Marco Ferrari; Sabrina Schwinger; Eleonora Ammannito; Ottaviano Ruesch

Lecture Room: Saturn

10:45–12:25

Chairpersons: Wladimir Neumann, Sabrina Schwinger, Marco Ferrari

10:45–11:05: EPSC2018-1205

The chronology of formation of solids and meteorite parent bodies in the early solar system (solicited talk)
Trieloff Mario

11:05–11:25: EPSC2018-325

Asteroids observations from the ground and space: implications for our understanding of the Main Belt and of asteroid families (solicited talk)
Delbo Marco

11:25–11:40: EPSC2018-741

Extended photometric survey of Near-Earth Objects
Ieva Simone, Dotto Elisabetta, Mazzotta Epifani Elena, Perna Davide, Rossi Alessandro, Di Paola Andrea, Giunta Alessio, Micheli Marco, Perozzi Ettore, Speziali Roberto, Lazzarin Monica, Bertini Ivano, Ochner Paolo, Petropoulou Vasiliki, Lazzaro Daniela, Arcoverde Plicida, Medeiros Hissa, Monteiro Filipe

11:40–11:55: EPSC2018-670

Dreams came true - the first results from inversion of Gaia DR2 asteroid photometry
Durech Josef, Hanus Josef

11:55–12:10: EPSC2018-953

Astrometry and photometry of TNOs and asteroids using Gaia DR2
Duffard Rene, Santos-Sanz Pablo, Morales Nicolas, Ortiz Jose Luis

12:10–12:25: EPSC2018-210

Using Gaia DR2 Asteroid Data: Recommendations and Example Applications
Tanga Paolo, Spoto Federica

12:25 Lunch break**14:00–15:40**

Chairpersons: Wladimir Neumann, Sabrina Schwinger, Marco Ferrari

14:00–14:10: EPSC2018-202

Ground Observation of asteroids at mission ETA through JPL Horizons and SPICE
Paganelli Flora, Conrad Albert R., Costa Sitjà Marc

14:10–14:20: EPSC2018-591

Unique Multi-Tailed Active Asteroid 311P/(2013 P5) Panstarrs
Jewitt David, Weaver Harold, Mutchler Max, Li Jing, Agarwal Jessica, Larson Stephen

14:20–14:30: EPSC2018-1084

Asteroid Phase Curves Seen by Pan-STARRS 1
Bannister Michele, Fitzsimmons Alan, Young David

14:30–14:40: EPSC2018-671

Binary main-belt comet 288P
Agarwal Jessica, Jewitt David, Mutchler Max, Weaver Harold, Larson Stephen

14:40–14:50: EPSC2018-770

The NEOSFIELD-2 project: results from the spectroscopic survey of small NEOs
Fornasier Sonia, Perna Davide, Barucci Maria Antonietta, Popescu Marcel, Doressoundiram Alain, Merlin Frederic, Fulchignoni Marcello, Lantz Cateline

14:50–15:00: EPSC2018-118

Earth's missing co-orbitals
Christou Apostolos, dell'Oro Aldo, Borisov Galin, Bagnulo Stefano, Cellino Alberto

15:00–15:10: EPSC2018-1072

The case for depth-dependent thermal properties of asteroids: evidence from Earth-based observations
Drube Line, Harris Alan

15:10–15:20: EPSC2018-807

Search for possible differences in dynamical and physical properties of L4 and L5 Jupiter Trojans
Slyusarev Ivan, Glezina Daniella, Belskaya Irina

15:20–15:30: EPSC2018-1157

Retrograde 1:1 mean motion resonance: a perturbative treatment
Sidorenko Vladislav

15:30–15:40: EPSC2018-504

Unusual properties of asteroid (3200) Phaethon from polarimetric observations and modeling

Kiselev Nikolai, Afanasiev Viktor, Petrov Dmitry, Rosenbush Vera

15:40 Coffee break**16:15–17:55**

Chairpersons: Wladimir Neumann, Sabrina Schwinger, Marco Ferrari

16:15–16:25: EPSC2018-91

The Brazil nut effect under reduced gravity

von Borstel Ingo, Helms Fabian, Katsuragi Hiroaki, Blum Jürgen

16:25–16:35: EPSC2018-877

Cooling rates of chondrules from diffusion profiles in relict olivine grains

Stockdale Shannon, Franchi Ian, Morgan Dan, Anand Mahesh, Grady Monica

16:35–16:55: EPSC2018-611

Multi-phase melt percolation during core formation (solicited talk)

Hesse Marc

16:55–17:05: EPSC2018-130

Magma ascent in planetesimals: control by grain size

Lichtenberg Tim, Keller Tobias, Katz Richard, Golabek Gregor, Gerya Taras

17:05–17:25: EPSC2018-108

Understanding iron meteorites and early Solar System metallic cores of asteroid parent bodies (solicited talk)

Chabot Nancy

17:25–17:35: EPSC2018-1173

A Framework for Spectral Reflectance Analysis of Carbonaceous Chondrite Meteorites (and Asteroids)

Cloutis Edward A.

17:35–17:45: EPSC2018-1043

Meteorite 4.5Gyr halite crystals likely to originate from Comets

Wallis Max, Wisckramasinghe Chandra

17:45–17:55: EPSC2018-259

A Comprehensive Model for Activation of Main Belt Comets

Haghighipour Nader, Maindl Thomas

**END OF TUESDAY ORAL PROGRAMME SB4
ORAL PROGRAMME SB4 CONTINUES ON FRIDAY**

SB17/AB3 Organic Matter in Space (co-organized)

Convener: Vassilissa Vinogradoff

Co-conveners: Gregoire Danger; Laurent Remusat

Lecture Room: Uranus

14:00–15:45

Chairpersons: Vassilissa Vinogradoff, Laurent Remusat

14:00–14:20: EPSC2018-1102

Organic molecules in protoplanetary disks

Favre Cécile, Fedele Davide, Semenov Dmitry, Codella Claudio, Ceccarelli Cecilia, Bergin Edwin, Parfenov Sergey, Hersant Franck

14:20–14:40: EPSC2018-657

Solid state matter and chemical evolution in space. Insights from quantum chemical calculations (solicited talk)

Rimola Albert

14:40–15:00: EPSC2018-387

Profiling meteorite soluble organic matter using (ultra)high resolution organic spectroscopy (solicited talk)

Schmitt-Kopplin Philippe, Ruf Alexander, Hertkorn Norbert, Harir Mourad, Kanawati Basem, Lucio Marianna, Quirico Eric, Greshake Ansgar, Gabelica Zelimir

15:00–15:15: EPSC2018-39

Abundance, Enantiomeric, and ^{13}C Isotope Analyses of Meteoritic Aldehydes and Ketones

Aponte Jose, Elsila Jamie, Dworkin Jason

15:15–15:30: EPSC2018-38

Organic Rims on Individual Grains in CP IDPs: Evidence for Organic Formation in the Solar Protoplanetary Disk

Flynn George, Wirick Sue, Keller Lindsay

15:30–15:45: EPSC2018-1170

Liquid hydrocarbons at the surface of Titan: bubbling or not bubbling?

Cordier Daniel, Liger-Belair Gérard, Garcia-Sanchez Fernando

15:45 Coffee break**16:15–18:00**

Chairpersons: Laurent Remusat, Vassilissa Vinogradoff

16:15–16:30: EPSC2018-438

UV luminescence characterisation of organics in Mars-analogue substrates

Laurent Boris, Cousins Claire Rachel, Gunn Matt, Cross Rachel, Huntly Carys, Allender Elyse

16:30–16:45: EPSC2018-435

D/H and microstructure of irradiated organic dust analogs

Riebe My, Nuevo Michel, Stroud Rhonda, Nittler Larry, Sandford Scott, Alexander Conel, Wang Jianhua

16:45–17:00: EPSC2018-1047

Aqueous alteration of fluoranthene ($\text{C}_{16}\text{H}_{10}$) in asteroids and meteorites

Giese Claudia-Corina, ten Kate Inge Loes, King Helen E., Plümper Oliver, Tielens Xander

17:00–17:15: EPSC2018-416

H/C elemental ratios of the refractory organic matter in cometary particles of 67P/Churyumov-Gerasimenko

Isnard Robin, Bardyn Anaïs, Fray Nicolas, Briois Christelle, Cottin Hervé, Paquette John, Stenzel Oliver, Alexander Conel, Baklouti Donia, Engrand Cécile, Orthous-Daunay François-Régis, Siljeström Sandra, Varmuza Kurt, Hilchenbach Martin

17:15–17:30: EPSC2018-849

From Diffuse Interstellar Bands to comets: the organic connection

Bertaux Jean-Loup, Lallement Rosine

17:30–17:45: EPSC2018-415

Organic matter and exogenous hypothesis

Ellinger Yves, Pauzat Françoise, Volatron François, Parent Philippe, Laffon Carine

17:45–18:00: EPSC2018-61

Photo- and thermo-chemistry of ices as a source of organic matter: from astrochemistry to astrobiology

Le Sergeant d'Hendecourt Louis, Meinert Cornelia, Meierhenrich Uwe, Danger Gregoire

END OF ORAL PROGRAMME SB17/AB3

Outreach, Education and Policy

OEP5 Immersive visualization of planetary data

Convener: Andreas-Christoph Bernstein

Co-conveners: Andreas Gerndt; Simon Schneegans

Lecture Room: Uranus

10:45–12:25

Chairperson: Andreas Gerndt

10:45–10:50: Introduction**10:50–11:05: EPSC2018-94**

Multiple ways to visualize planetary image data

Elgner Stephan, Adeli Solmaz, Gwinner Klaus, Hüttig Christian, Jaumann Ralf, Kersten Elke, Köhler Ulrich, Matz Klaus-Dieter, Andrea Naß, Oberst Jürgen, Pieth Susanne, Preusker Frank, Roatsch Thomas, Tirsch Daniela, Wählich Marita, Weiland Marianna, Willner Konrad

11:05–11:20: EPSC2018-1206

Using techniques from the visual effects industry to process raw JunoCam imagery for 3D presentation

Brealey Matt

11:20–11:35: EPSC2018-544

Interactive Planetary Visualization and Analysis with NASA's Solar System Treks Portals

Day Brian, Law Emily

11:35–11:50: EPSC2018-1136

Immersive Visualization in Planetarium Domes

Voss Björn, Horn Tim Florian

11:50–12:05: EPSC2018-774

Immersive Visualization of Planetary Reconstructions for Geological Interpretation

Ortner Thomas, Haaser Georg, Steinlechner Harald, Barnes Rob, Gupta Sanjeev, Traxler Chris, Paar Gerhard

12:05–12:20: EPSC2018-232

Interactive Solarsystem for High-Resolution Planetary Data Exploration

Bernstein Andreas-Christoph, **Schneegans Simon**, Flatken Markus, Gerndt Andreas, Utzig Sebastian

12:20–12:25: Conclusion

END OF ORAL PROGRAMME OEP5

Amateur Astronomy

AM1 Professional-Amateur collaborations in small bodies, terrestrial, giant, exo planets studies and Juno Ground-Based Support

Convener: Marc Delcroix

Co-conveners: Harri Haukka; Ricardo Hueso; Padma Yanamandra-Fisher; John Rogers; Leigh Fletcher

Lecture Room: Mars

16:15–17:45

Chairperson: Marc Delcroix

Juno pro-am collaborations**16:15–16:25: EPSC2018-205**

Characterization of Jupiter's Atmosphere by Juno and a Network of Earth-Based Observations

Orton Glenn, Momary Thomas, Tabataba-Vakili Fachreddin, Hansen Candice, Bolton Scott, Eichstaedt Gerald, Rogers John

16:25–16:35: EPSC2018-586

On the Value of JunoCam's Marble Movie Images

Eichstaedt Gerald, Hansen-Koharcheck Candice

16:35–16:45: EPSC2018-562

The new South Tropical Disturbance and its interaction with the Great Red Spot

Rogers John, Eichstädt Gerald, Jacquesson Michel, Hansen Candice, Orton Glenn, Momary Tom, Tabataba-Vakili Fachreddin, Caplinger Michael, Ravine Michael, Adamoli Gianluigi, Vedovato Marco, Mettig Hans-Joerg, Bullen Robert, Go Christopher, Casely Andy

16:45–16:55: EPSC2018-233

First light of the affordable adaptive optic system "CIAO" at Pic du Midi Observatory

Dauvergne Jean-Luc, Dovillaire Guillaume, Colas François, Delcroix Marc, Lecacheux Jean, Rondeau Christophe, Juval Rémy

Solar system collaborations**16:55–17:05: EPSC2018-607**

Amateur studies of Venus in the near IR and UV

Arditti David

17:05–17:15: EPSC2018-523

Recent high-cadence photometry and outburst characteristics of

Comet 29P/Schwassmann-Wachmann 1

Miles Richard and the Comet 29P Observing Campaign

17:15–17:25: EPSC2018-1249

Participative astronomy network experience in observing asteroidal occultation in Algeria

Baba Aissa Djounai

17:25–17:35: EPSC2018-1193

Repeat Illumination Observations of the Moon

Cook Anthony

Exo-planets collaborations**17:35–17:45: EPSC2018-66**

Use of CMOS cameras in exoplanet transit photometry

Murawski Gabriel

END OF ORAL PROGRAMME AM1

Lunar Science and Exploration

LSE1/TP15 Late Accretion of the Moon, Earth, and other Terrestrial Planets (co-organized)

Convener: Gregory Michael

Co-conveners: Elena Martellato; Sabrina Schwinger; Emily Worsham

Chairpersons: G. Michael, E. Martellato, S. Schwinger, E. Worsham

Attendance time: Tuesday, 18:15–20:00

P1: EPSC2018-1000

Forming a Lunar Dichotomy by Giant Impact Melting
Schwinger Sabrina, Zhu MengHua

P3: EPSC2018-372

Volatile outgassing and chemical speciation of the C-O-H system in the Earth's Magma Ocean

Ortenzi Gianluigi, Sohl Frank, Noack Lena

P4: EPSC2018-291

Early evolution of Venus and Earth constrained by the reproduction of measured Ar, Ne isotope and K/U elemental ratios

Lammer Helmut, Leitzinger Martin, Odert Petra, Burger Christoph, Kubyskhina Darya, Scherf Manuel, Maindl Thomas, Johnstone Colin, Tosi Nicola, Nikolaou Athanasia, Marcq Emmanuel, Fossati Luca, Erkaev Nikolai V., Güdel Manuel, Noack Lena, Kislyakova Kristina G., Ragossnig Florian, Pilat-Lohinger Elke

P5: EPSC2018-305

Escape and fractionation of elements from planetary embryos

Benedikt Markus, Scherf Manuel, Lammer Helmut, Marcq Emmanuel, Odert Petra, Leitzinger Martin

P6: EPSC2018-351

The Pb-Pb chronology of impact melt rock 14310 and new crater size-frequency distribution measurements of the Apollo 14 landing site

Borisov Danil, Hiesinger Harald, Haber Thomas, Scherer Erik, Iqbal Wajih, van der Bogert Carolyn

END OF POSTER PROGRAMME LSE1/TP15

LSE5 Lunar Volatiles

Convener: Kathleen Mandt

Co-conveners: Olivier Mousis; Wes Patterson; Elliot Sefton-Nash

Chairpersons: Wes Patterson & Olivier Mousis

Attendance time: Tuesday, 18:15–20:00

P7: EPSC2018-331

Enhancements in the lunar exosphere seen in LACE data
Killen Rosemary, Park Jaekyun, Tucker Orenthal, Williams David, Kim Sang-Joon

P8: EPSC2018-1071

Lunar Science, Volatiles Prospecting and In-Situ Resource Utilisation: Synergistic Science and Exploration
Barber Simeon, Abernethy Feargus, Anand Mahesh, Levin-Prabhu Vibha, Lim Sungwoo, Morse Andrew, Mortimer James, Pitcher Craig, Sargeant Hannah, Sheridan Simon, Verchovsky Sasha, Wright Ian

END OF POSTER PROGRAMME LSE5

LSE6/MTI10 Science and Innovation for the Moon Village and beyond (co-organized)

Convener: Bernard Foing

Co-conveners: Chrysa Avdellidou;

Germaine Van der Sanden; Christiane Heinicke

Attendance time: Tuesday, 18:15–20:00

P9: EPSC2018-29

"Digital Moon": information system for distribution, visualization and analysis of lunar data

Karachevtseva Irina, Garov Andrey, Zubarev Anatoly, Matveev Evgeny, **Kozlova Natalia**

P10: EPSC2018-62

SpectroLab: a planetary spectroscopic test bench in a Cube

Clavé Elise, **Foing Bernard**, Dubois Louis, van der Sanden Germaine

P11: EPSC2018-660

EuroMoonMars 2018 Workshop: Lunar Analogue simulations

Clavé Elise, **Foing Bernard**, Dubois Louis, vd Sanden Germaine, Krainski Mateusz, Grulich Maria, Sitnikova Anna, Cinelli Illaria, Zaklinsky Alexander, Rodrigues Jocelino, Michalik Daniel

P12: EPSC2018-673

Ground Control Center during Analogue simulation for EuroMoonMars 2018 Workshop

Clavé Elise, **Foing Bernard**, Dubois Louis, vd Sanden Germaine

P13: EPSC2018-1126

Near surface environment specifications for Lunar South Pole exploration sites

Cipriani Fabrice, Kuznetsov Ilya, Foing Bernard

P14: EPSC2018-1143

FDOA-based method to enhance TOF method for Position Determination of Lunar Exploration Rovers

García de Quirós Nieto Francisco Javier, Radice Gianmarco, Carrasco José A.

P15: EPSC2018-913

Conceptual design and development of Lunar Mobile Habitat for exploration of Moon

Neduncheran Adhithyan, Guven Ugur, **Chandra Rohan**, Notnani Dhananjay, Dhawan Mehul Paul, Nangalia Utsav

END OF POSTER PROGRAMME LSE6/MTI10

Outer Planet Systems

OPS2 Cassini's Legacy: One Year Later

Convener: Scott Edgington

Co-conveners: Sushil K. Atreya; Athena Coustenis; Norbert Krupp; Linda Spilker

Attendance time: Tuesday, 18:15–20:00

P16: EPSC2018-226

Saturn's ionosphere: Electron density altitude profiles and ring shadowing effects from the Cassini Grand Finale.

Hadid Lina, Wahlund Jan-Erik, Morooka Michiko, Persoon Ann, Andrews David, Shebanits Oleg, Farrell William, Kurth William, Edberg Niklas, Vigren Erik, Moore Luke, Heddman Matthew, Cravens Thomas, Nagy Andrew, Eriksson Anders

P17: EPSC2018-624

Saturn's equatorial ionosphere: dominance of heavy ions and model comparisons with Cassini Grand Finale data

Moore Luke, Cravens Tom E., Müller-Wodarg Ingo, Perry Mark E., Waite, Jr. J. Hunter, Perryman Rebecca, Nagy Andrew, Mitchell Donald, Persoon Ann, Wahlund Jan-Erik, Morooka Michiko W.

P18: EPSC2018-838

Saturn's Atmospheric Photochemistry: Chemistry and Haze in Ring-Shadowed Atmosphere and within the Hexagon

Edgington Scott, Atreya Sushil, Wilson Eric, Baines Kevin, West Robert, Bjoraker Gordon, Fletcher Leigh, Momary Thomas

P19: EPSC2018-488

What is the plasma density in the Enceladus plume?

Crary Frank

P20: EPSC2018-138

Equatorial magnetic field oscillations observed over the Cassini mission

Andrews David, Cowley Stanley, Hadid Lina, Hunt Greg, Morooka Michiko, Provan Gabby, Wahlund Jan-Erik

P21: EPSC2018-1125

Survey of Saturn's magnetosheath and its boundaries throughout the Cassini mission

Jackman Caitriona, Thomsen Michelle, Sergis Nick, Dougherty Michele

P22: EPSC2018-553

Titan Trek and IcyMoons Trek: Two New Online NASA Visualization and Analysis Portals for Saturn's Moons

Day Brian, **Law Emily**

END OF POSTER PROGRAMME OPS2

Magnetospheres and Space Physics

MSP1/MD9 Planetary space weather (co-organized)

Convener: Nicolas André

Co-conveners: Manuel Grande; Jean Liliensten; Christina Plainaki; Maria Kotelnikova; Sergey Starchenko

Chairperson: Nicolas Andre

Attendance time: Tuesday, 18:15–20:00

P23: EPSC2018-750

Space Weather in the Outer Solar System

Plainaki Christina

P24: EPSC2018-174

Several questions on the structure of the cometary induced magnetospheres

Israelevich Peter

P25: EPSC2018-47

DeTeCt3.1.: A software tool to detect impacts of small objects in video observations of Jupiter obtained by amateur astronomers

Juaristi Jon, Delcroix Marc, Hueso Ricardo, Sánchez-Lavega Agustín, André Nicolas

P26: EPSC2018-985

Solar Windsocks: Estimating Solar Wind Speeds from Comet Ion Tail Images

Jones Geraint, Bentley Bob, Ramanjooloo Yudish

P27: EPSC2018-1035

Tailcatcher: A software tool for the finding of potential cometary tail crossings

Jones Geraint

P28: EPSC2018-1077

The Spatial Distribution of Lunar Impact Flashes

Sweeney Calum, Thorpe David, **Cook Anthony**

P29: EPSC2018-459

A Virtual Observatory (VO) Event model for the optical detection of meteors and transient luminous events

Marmo Chiara, Garnung Matthieu, Le Sidaner Pierre, Cecconi Baptiste, Celestin Sebastien, Koschny Detlef

P30: EPSC2018-90

The PSWS Space Weather VOEvent alerts service of the CDPP

Gangloff Michel, André Nicolas, Génot Vincent, Cecconi Baptiste, Le Sidaner Pierre, Goutenoir Antoine, Bouchemit Myriam, Budnik Elena

END OF POSTER PROGRAMME MSP1/MD9

MSP2/MD8 Global modelling and remote sensing of planetary magnetospheric dynamics (co-organized)

Convener: Graziella Branduardi-Raymont
Co-conveners: Caitriona Jackman; Norbert Krupp
Chairperson: G. Branduardi-Raymont
Attendance time: Tuesday, 18:15–20:00

P31: EPSC2018-100

(A)uroral (K)ilometric (R)adiation as a Self-Organized System
Marek Michał, Schreiber Roman

P32: EPSC2018-318

Evaluating Single Spacecraft Observations of Planetary Magnetotails with a Simple Monte Carlo Simulation
Smith Andy, Jackman Caitriona, Frohmaier Christopher, Coxon John, Slavin James, Fear Robert

P33: EPSC2018-513

Modeling of kinetic wave modes for various magnetospheric conditions at Jupiter
Janser Sascha, Saur Joachim

P34: EPSC2018-4

Parametrization of Low Frequency Internal-Gravity Waves in the Shear Flow Driven Ionosphere
Chargazia Khatuna, Kharhiladze Oleg, Zimbardo Gaetano, Kvaratskhelia Diana, Javakhishvili Nodar, Gomiashvili Ketevan

END OF POSTER PROGRAMME MSP2/MD8

Modelling and Database

MD2/MTI4/LFI4 Machine Learning for Planetary Science in times of increasing data volume and complexity (co-organized)

Convener: Mario D'Amore
Co-conveners: Stéphane Erard; Jörn Helbert
Attendance time: Tuesday, 18:15–20:00

P35: EPSC2018-706

Attempting rapid exoplanet's classification with neural networks
Padovan Sebastiano, Baumeister Philipp, Doris Breuer, Sohl Frank, Spohn Tilman, Tosi Nicola

P36: EPSC2018-1068

Machine Learning Classification of Simulated Mars Observations
Erwin Justin, Trompet Loïc, Vandaele Ann C, Robert Séverine, Thomas Ian, Daerden Frank, Neary Lori, Viscardy Sébastien

END OF POSTER PROGRAMME MD2/MTI4/LFI4

Missions, Techniques and Industry

MTI3 Advances in Planetary Mapping, Geographic Information Techniques, and Data Mining

Convener: Anthony Cook
Co-conveners: Konrad Willner
Chairperson: Anthony Cook
Attendance time: Tuesday, 18:15–20:00

P37: EPSC2018-996

Photoscan DEMs from Apollo 15 Hasselblad Photographs
Manheim Madeleine, Wagner Robert, Klem Susan, Robinson Mark

P39: EPSC2018-311

Analysis and global mapping of statistical parameters of Mercury relief characteristics
Zharkova Anastasia, Kokhanov Alexander, Kolenkina Maria

P40: EPSC2018-37

The Web-based Interactive Mars Analysis and Research System for the iMars project
Walter Sebastian H.G., Muller Jan-Peter, Sidiropoulos Panagiotis, Tao Yu, Gwinner Klaus, Putri Alfiah R.D., Kim Jung-Rack, Steikert Ralf, van Gasselt Stephan, Michael Greg G., Watson Gillian, Schreiner Björn P.

P41: EPSC2018-942

ACRI-ST: From data to science
Bernard-Salas Jeronimo, Cox Nick, Vergely Jean-Luc, Ferron Stephane, Blanot Laurent, Delaye Lauriane, Bruniquel Veronique, Hembise Fanton d'Andon Odile

P42: EPSC2018-407

Datasets Fusion Techniques as the tool for analyzing the crustal properties of terrestrial and icy bodies to address their formation and geologic evolution in the Solar System
D'Incecco Piero, Rivera-Valentin Edgard

END OF POSTER PROGRAMME MTI3

MTI7 Planetary in situ measurements

Convener: Axel Hagermann
Co-conveners: Günter Kargl; Erika Kaufmann
Chairperson: Kaufmann
Attendance time: Tuesday, 18:15–20:00

P43: EPSC2018-309

In situ measurements of the xenon isotopes at Uranus and Neptune: a powerful tool to decipher the origin of ice giant building blocks
Mousis Olivier, Ronnet Thomas, Mandt Kathleen E., Lunine Jonathan I., Marty Bernard, Atkinson David H., Hofstadter Mark D.

P44: EPSC2018-154

Scientific rationale for in situ exploration of the ice giants
Mousis Olivier, Atkinson David, Cavalié Thibault, Fletcher Leigh, Amato Michael, Aslam Shahid, Ferri Francesca, Renard Jean-Baptiste, Spilker Thomas, Venkatapathy Ethiraj, Wurz Peter, Aplin Karen, Coustenis Athena, Deleuil Magali, Dobrijevic Michel, Fouchet Thierry, Guillot Tristan, Hartogh Paul, Hewagama Tilak, Hofstadter Mark

P45: EPSC2018-631

Status of MEDA PS and MEDA HS Pressure and Relative Humidity Devices for Mars 2020 Rover
Hietta Maria, Genzer Maria, Nikkanen Timo, Haukka Harri, Polkko Jouni, Meskanen Matias, Harri Ari-Matti, Rodriguez-Manfredi Jose A

P46: EPSC2018-876

Correction of Galileos Energetic Particle Detector, Composition Measurement System
Lee-Payne Zoe, Grande Manuel, Kollmann Peter, Krupp Norbert

P47: EPSC2018-885

Laboratory studies of tholins, analogues of Titan aerosols, with the LAB-CosmOrbitrap
Selliez Laura, Cherville Barnabé, Briois Christelle, Carrasco Nathalie, Maillard Julien, Gautier Thomas, Thirkell Laurent, Gaubicher Bertrand, Lebreton Jean-Pierre

P48: EPSC2018-982

Plenoptic cameras for in-situ micro imaging
Lingenauber Martin, Krutz Ulrike, Fröhlich Florian, Strobl Klaus H.

P49: EPSC2018-1027

Simple modelling of Plasma Parameters to Assist the Analysis of LIBS Spectra for Planetary Exploration
Hansen Peder, Vogt David S., Schröder Susanne, Rammelkamp Kristin, Kubitz Simon, Frohmann Sven, Hübers Heinz-Wilhelm

P50: EPSC2018-1174

Colorimetric analysis to help identification of drilled rock powders on Mars: the CaliPhoto method
Foucher Frédéric and the the CaliPhoto team

P51: EPSC2018-1219

Investigation of lunar dusty exosphere with future Russian lunar missions: Development of the Instrument & Simulation Control
 Zakharov Alexander, **Dolnikov Gennady**, Kuznetsov Ilia, Lyash Andrey, Shashkova Inna, Popel Sergei

END OF POSTER PROGRAMME MTI7**Astrobiology****AB1 Astrobiology**

Convener: John Robert Brucato

Co-convener: Felipe Gómez

Attendance time: Tuesday, 18:15–20:00

P52: EPSC2018-30

Aquaeous alteration and putative microbial mediation in NIPR L chondrites
Bérczi Szaniszló, Polgári Márta, Gyollai Ildikó

P53: EPSC2018-392

In-situ detection of biosignatures from 1.9 Ga Gunflint chert with LMS
Lukmanov Rustam, Tulej Marek, Wiesendanger Reto, Riedo Andreas

P54: EPSC2018-886

Effects of low and high energy proton radiation on the preservation of biomolecules as followed by their immuno-identification behavior
Blanco Lopez Yolanda, Viúdez-Moreiras Daniel, Moreno-Paz Mercedes, Le Postollec Aurélie, Incerti Sébastien, Dobrijevic Michael, Rodriguez-Manfredi José Antonio, Parro Víctor

P55: EPSC2018-926

Appraisal of lithologies and biosignatures using the ExoMars 2020 CLUPI instrument: blind tests using simulated mission observational conditions
Hickman-Lewis Keyron, Pelletier Steven, Foucher Frédéric, Messori Fabio, Westall Frances

P56: EPSC2018-963

Dallol: A unique study of life under multiple co-occurring physiochemical extremes
Rennie Vincent, Warren Clare J., Cavalazzi Barbara, Olsson-Francis Karen

P57: EPSC2018-2

Interaction of thymine and uracil with nickel and cadmium hexacyanoferrates (II) and its implication in chemical evolution and the origin of life
Whyte Rayanna, Tewari Brij

P58: EPSC2018-903

Diverse Stratosphere Circulation in tidally locked Exo-Earths
Carone Ludmila, Keppens Rony, Decin Leen, Henning Thomas

P59: EPSC2018-928

Photoprocessing of formamide ice: route towards prebiotic chemistry in space
Corazzi Maria Angela, Brucato John Robert, Poggiali Giovanni

END OF POSTER PROGRAMME AB1

Small Bodies (comets, KBOs, rings, asteroids, meteorites, dust)

SB4 Asteroids and parent bodies of meteorites: Observations, experiments, models

Convener: Wladimir Neumann

Co-conveners: Marco Ferrari; Sabrina Schwinger; Eleonora Ammannito; Ottaviano Ruesch

Chairpersons: Wladimir Neumann, Sabrina Schwinger, Marco Ferrari

Attendance time: Tuesday, 18:15–20:00

P60: EPSC2018-81

Ideal method for asteroid compositional analysis - mid-infrared spectral work with DRIFTS for HERA mission Skultéti Ágnes, **Kereszturi Ákos**

P61: EPSC2018-315

Future orbital evolution of comets discovered in 2016-2018

Kovalenko Nataliya, Kleshchonok Valeriy

P62: EPSC2018-354

Effect of surface roughness on the reflectance spectra of metallic meteorites

Potin Sandra, Beck Pierre, Libourel Guy

P63: EPSC2018-396

Chaotic transport of Main Belt asteroids in Martian resonances

Christou Apostolos, Dermott Stanley, Li Dan

P64: EPSC2018-481

Chondrules alteration study of NWA2086 CV3 meteorite by using μ -IR and SEM/EDS combined analysis and implications for asteroid parent body

Dirri Fabrizio, Ferrari Marco, Palomba Ernesto, Stefani Stefania, Longobardo Andrea, Rotundi Alessandra

P65: EPSC2018-626

Investigation of Mobility-related Surface Features on Asteroids and their Relation to Volatiles

Parekh Rutu

P66: EPSC2018-899

Mesosiderites and HEDs characterized combining by μ -IR and SEM/EDS analyses in relation to infrared spectra of Vesta-like asteroids

Ferrari Marco, Dirri Fabrizio, Palomba Ernesto, Stefani Stefania, Rotundi Alessandra

P67: EPSC2018-1030

The second joint Italian - Iranian expedition to Dasht-e Lut for meteorite recovery

Ferrari Marco, Moggi Cecchi Vanni, Pratesi Giovanni, Di Martino Mario, Giuli Gabriele, Nemati Majid, De Sanctis Maria Cristina

END OF POSTER PROGRAMME SB4

SB13/MTI8 Sample return missions: lessons learned and future perspectives (co-organized)

Convener: Andrea Longobardo

Co-conveners: Fabrizio Dirri; Maurizio Pajola; Sarah-Jane Gill

Chairperson: Andrea Longobardo

Attendance time: Tuesday, 18:15–20:00

P68: EPSC2018-454

An analysis of the components of the RITD and evaluating alternatives for each component

Marian Christian, Koryanov Vsevolod, Toporkov Alexey, d'Albert Hugo

P69: EPSC2018-614

Analysis of Results of Scaled Parachute High Altitude Deployment Test

Lu Yuanyuan

P70: EPSC2018-1182

Mars sample return processing: X-Ray Computed Tomography of the Mars 2020 cache

Welzenbach Linda, Fries Marc, Grady Monica, Greenwood Richard, McCubbin Francis, Smith Caroline, Steele Andrew, Zeigler Ryan

P71: EPSC2018-10

Dry Ice Freezing-Sublimation Energy Conversion for Space Stations, the Moon, and with Particular Reference to Mars

Arias Francisco J

END OF POSTER PROGRAMME SB13/MTI8

SB14 Small Bodies as Granular Systems

Convener: Daniel Hestroffer

Co-conveners: Nicolas Taberlet; Paolo Tanga

Chairperson: Hestroffer

Attendance time: Tuesday, 18:15–20:00

P72: EPSC2018-797

Studying surface morphologies of comet 67P/C-G using discrete element simulations

Kappel David, Otto Katharina, Oklay Nilda, Michalik Tanja, Haack David, Kuehrt Ekkehard, Tirsch Daniela, Mottola Stefano, Groussin Olivier

P73: EPSC2018-828

Fine-Grained Regolith on the Young Asteroids (1270) Datura and (5026) Martes

Rozitis Ben, Brown Eloise, Green Simon, Lowry Stephen, Fitzsimmons Alan, Rozek Agata, Snodgrass Colin, Weissman Paul, Zegmott Tarik

END OF POSTER PROGRAMME SB14

SB16 Observing and modelling meteors in planetary atmospheres

Convener: Maria Gritsevich

Co-conveners: Jürgen Oberst; Apostolos Christou; Elizabeth Silber; Josep Maria Trigo-Rodríguez

Chairperson: Manuel Moreno-Ibáñez

Attendance time: Tuesday, 18:15–20:00

P74: EPSC2018-585

Shock waves generated by meteoroids impacting the Earth's atmosphere: An up-to-date state of knowledge in the field

Silber Elizabeth, Gritsevich Maria, Boslough Mark, Hocking Wayne, Whitaker Rod

P75: EPSC2018-554

Southern sky meteor showers - AMOS data

Toth Juraj, Kornos Leonard, Matlovic Pavol, Rudawska Regina, **Hajdukova Maria**, Zigo Pavol, Vilagi Jozef

P76: EPSC2018-1164

Validation of the open-source software Meteor Toolkit

Dmitriev Vasily, Lupovka Valery, Gritsevich Maria

P77: EPSC2018-582

The production of nitric oxide by centimetre-sized meteoroids in the upper atmosphere

Silber Elizabeth, Gritsevich Maria, Silber Reynold, Butka Peter

P78: EPSC2018-518

Numerical modelling of meteoric dust transport in Earth atmosphere

Vinnikov Vladimir, **Gritsevich Maria**

P79: EPSC2018-88

The fireball of 21/09/2017: a study of eyewitness reports

Elgner Stephan, Hauenschild Marius, Flohrer Joachim, Heinlein Dieter, Strunk Jörg, Oberst Jürgen, Margonis Anastasios

P80: EPSC2018-728

Analysis data of atmospheric trajectory 8916 radio meteoroides registered in HisAO

Narziev Mirhusen, Jopek Tadeusz, Khujanazarov Habibjon

P81: EPSC2018-1154

Observations of the 3200 Phaethon and Geminid meteor shower during the epoch of close approach with the Earth

Kartashova Anna, Ivanova Oleksandra, Ryabova Galina, Husárik Marek

P82: EPSC2018-1062

A spectroscopy pipeline for the CILBO meteor detection system

Rudawska Regina, Zender Joe, Koschny Detlef, Smit Hans, Löhle Stefan, Zander Fabian, Eberhart Martin, Meindl Arne

END OF POSTER PROGRAMME SB16

SB17/AB3 Organic Matter in Space (co-organized)

Convener: Vassilissa Vinogradoff

Co-conveners: Gregoire Danger; Laurent Remusat

Chairpersons: Vassilissa Vinogradoff, Laurent Remusat, Gregoire Danger

Attendance time: Tuesday, 18:15–20:00

P83: EPSC2018-67

From Astrochemistry to Prebiotic Chemistry: the Organic Matter Evolution

d'Hendecourt Louis, Pascal Robert, **Danger Grégoire**

P84: EPSC2018-1241

Development and realization of a spatialized micro LC for the analysis of biomarkers

Ribette Thomas, Geffroy Claude, Poinot Pauline

P85: EPSC2018-663

UV induced methane and volatile organic carbon emission from the Murchison meteorite

Boosman Arjen, ten Kate Inge Loes, Mason Paul, Polerecky Lubos, Materić Dušan, Holzinger Rupert, Röckmann Thomas

P86: EPSC2018-967

Study of organic compounds present in the Northwest Africa 6148 Nakhilite by means of Raman spectroscopy

Madariaga Juan Manuel, Torre-Fernandez Imanol, Ruiz-Galende Patricia, Aramendia Julene, Gomez-Nubla Leticia, Castro Kepa, Fdez-Ortiz de Vallejuelo Silvia, Arana Gorka

P87: EPSC2018-109

The search for polyynes in electron irradiated ices of astrochemical relevance

Kanuchova Zuzana, Ioppolo Sergio, Jones Nikola, Hoffmann Soren, Strazzulla Giovanni, Mason Nigel

P88: EPSC2018-634

Evolution of Organic Molecules in Pre-Solar Ice

Gudipati Murthy, Henderson Bryana, Radhakrishnan Soumya, Sander Wolfram, Lignell Antti

P89: EPSC2018-997

Photocatalytic properties of minerals and their role in prebiotic chemistry

Kopacz Nina, ten Kate Inge Loes

P90: EPSC2018-1086

Interstellar Fullerenes

Cox Nick, Foing Bernard

END OF POSTER PROGRAMME SB17/AB3

SB19/OPS12/EXO6 Planetary Rings (co-organized)

Convener: Holger Hoffmann
Co-conveners: Jürgen Schmidt; Frank Spahn
Chairperson: Frank Spahn
Attendance time: Tuesday, 18:15–20:00

P91: EPSC2018-190

Modeling the density profile of the outer A ring with an axisymmetric diffusion model
Grätz Fabio, Seiler Michael, Seiß Martin, Spahn Frank

P92: EPSC2018-744

Analysis of Santos-Dumont's asymmetric propeller gaps
Hoffmann Holger, Seiler Michael, Seiß Martin, Spahn Frank

P93: EPSC2018-1266

Behaviour of a stochastic parametric oscillator with application to dust particles originating in the inner Saturnian rings
Schirdewahn Daniel, Spahn Frank

END OF POSTER PROGRAMME SB19/OPS12/EXO6

Outreach, Education and Policy

OEP3 Europlanet Public Engagement Prize and Funding Scheme Showcase

Convener: Eleni Chatzichristou
Chairperson: Régis Courtin
Attendance time: Tuesday, 18:15–20:00

P94: EPSC2018-520

The EUROPLANET Meteorites Virtual Microscope Collection
Anand Mahesh, Tindle Andrew, Kelley Simon

P95: EPSC2018-1285

Rosetta's Comet Touchdown educational kit
Roos Maarten, Bauer Markus, Lang Ágota, Rodrigues Filomena

P96: EPSC2018-150

The Planeterrella
Lilensten Jean

P97: EPSC2018-1160

From VMR to ReMY: Game concept awarded by Europlanet becomes Remote Mars Yard
Józefowicz Mateusz, Meszyński Sebastian, Sokolov Oleksandr

P98: EPSC2018-869

3D Tactile Moon
Ortiz-Gil Amelia

P99: EPSC2018-816

AMADEE-18 Junior Explorers Program
Groemer Gernot, Haider Olivia, Prock Silvia

P100: EPSC2018-170

Planetary Maps Designed for Children
Hargitai Henrik

P101: EPSC2018-60

Europlanet prize 2012 - still committed to outreach
Naze Yael

P102: EPSC2018-1222

Sneaking science education into addictive games that can be played by people with diverse needs.
 Gay Pamela, **Lehan Cory**

P103: EPSC2018-1245

Spaceguard UK - The First Two Decades
Tate Jonathan

P104: EPSC2018-254

Planets in a Room: a DIY, low-cost educational kit
Giacomini Livia, Aloisi Francesco, De Angelis Ilaria, Capretti Stefano

P105: EPSC2018-78

OpenPlanetaryMap: Building the first Open Planetary Mapping and Social platform for researchers, educators, storytellers, and the general public
Manaud Nicolas, Nass Andrea, van Gasselt Stephan, Lewando Myles, Pio Rossi Angelo, Hare Trent, Carter John, Hargitai Henrik

P106: EPSC2018-1251

Planets in your Hand
Kefala Kyriaki, Gazeas Kosmas
 and the Planets in your Hand Team

P107: EPSC2018-1004

Connacht Schools Planetary Radio Telescope Network
Golden Aaron, Campbell Paula, De Hora Paul, Grogan Sinead, Hession Anne, Mulvey Patricia, O'Gorman Sarah, Ó hÉanaigh Maidhc, Spellacy Neil, Stephens James, Toner John

P108: EPSC2018-1202

Don't Be Afraid of Gaps
Graps Amara

END OF POSTER PROGRAMME OEP3

OEP5 Immersive visualization of planetary data

Convener: Andreas-Christoph Bernstein
Co-conveners: Andreas Gerndt; Simon Schneegans
Chairperson: Andreas Gerndt
Attendance time: Tuesday, 18:15–20:00

P109: EPSC2018-286

BepiVR: Virtual Reality for BepiColombo outreach
Politi Romolo, Simioni Emanuele, Cremonese Gabriele, Galluzzi Valentina, Magnafico Carmelo, Mangano Valeria, De Marchi Fabrizio, Re Cristina, Romano Domenico

END OF POSTER PROGRAMME OEP5

Amateur Astronomy

AM1 Professional-Amateur collaborations in small bodies, terrestrial, giant, exo planets studies and Juno Ground-Based Support

Convener: Marc Delcroix

Co-conveners: Harri Haukka; Ricardo Hueso; Padma Yanamandra-Fisher; John Rogers; Leigh Fletcher

Chairperson: Marc Delcroix

Attendance time: Tuesday, 18:15–20:00

Planets collaborations

P110: EPSC2018-46

Science from PVOL2 (The Planetary Virtual Observatory and Laboratory): A database of amateur observations of Solar system planets integrated in VESPA

Hueso Ricardo, Juaristi Jon, Legarreta Jon, Sánchez-Lavega Agustín, Erard Stephane, Cecconi Baptiste, Le Sidaner Pierre

P111: EPSC2018-117

Changes on Mars 2003 - 2018

Gährken Bernd

P112: EPSC2018-270

Jupiter's banded pattern changes in the 0.89 μ m band

Kardasis Emmanouil, Takoudi Alexia

P113: EPSC2018-1258

Amateurs' contributions to Saturn study during and after the Cassini era

Delcroix Marc, Fischer Georg, Sánchez-Lavega Agustín, Hueso Ricardo

Small bodies collaborations

P114: EPSC2018-491

Photometric observations of asteroids - in support of the Gaia Mission

Kluwak Tomasz

P115: EPSC2018-632

The COBS comet database: Structure and content

Zakrajšek Jure, Mikuž Herman, Warell Johan

P116: EPSC2018-644

The COBS comet database: Observer tools and case study

Warell Johan, Zakrajšek Jure, Mikuž Herman

Exo-planets collaborations

P117: EPSC2018-128

Exoplanet Observations in Taurus Hill Observatory - History and Current Activities

Haukka Harri, Hentunen Veli-Pekka, Nissinen Markku, Salmi Tuomo, Aartolahti Hannu, Juutilainen Jari, Heikkinen Esa, Vilokki Harri

P118: EPSC2018-476

Follow-up observations of transiting exoplanets: data collection and analysis

Kokori Anastasia, Tsiaras Angelos

END OF POSTER PROGRAMME AM1

Terrestrial Planets

TP1 Mercury Science and future exploration

Convener: Joe Zender

Co-conveners: Alice Lucchetti; Hauke Hussmann; Johannes Benkhoff; Go Murakami; Joana S. Oliveira

Chairpersons: J. Zender, J. Benkhoff

Attendance time: Tuesday, 18:15–20:00

P119: EPSC2018-312

Deciphering the conditions of formation of Mercury

Ronnet Thomas, Vernazza Pierre, Mousis Olivier, Brugger Bastien

P120: EPSC2018-344

Discovering Rembrandt basin's subsurface and Enterprise Rupes: 3D-model based on stratigraphic mapping and structural analysis

Semenzato Andrea, Massironi Matteo, Pozzobon Riccardo, Galluzzi Valentina, Rothery David, Ferrari Sabrina

P121: EPSC2018-451

Mercury Science Objectives and Traceability within the BepiColombo project: Optimizing the Science Output of the next mission to Mercury

Besse Sebastien, Benkhoff Johannes, Bentley Mark, Cornet Thomas, Moissl Richard, Munoz Claudio, Zender Joe

P122: EPSC2018-533

Re-examination of the population, stratigraphy, and sequence of Mercurian basins: Implications for Mercury's early impact history and comparison with the Moon

Orgel Csilla, Fassett Caleb I., Michael Greg, van der Bogert Carolyn H., Hiesinger Harald

P123: EPSC2018-625

Mercury observations in 2016 and 2019, during Transits and Total Eclipse

Pérez-Ayúcar Miguel, Zender Joe, Breithelner Michel, Castillo Manuel

P124: EPSC2018-721

Updates on geologic mapping of Kuiper (H06) quadrangle

Giacomini Lorenza, Galluzzi Valentina, Carli Cristian, Massironi Matteo, Ferranti Luigi, Palumbo Pasquale

P125: EPSC2018-726

The BepiColombo Radiation Monitor (BERM)

Moissl Richard

P126: EPSC2018-736

Deconvolution of Mid-Infrared Telescope Spectra of Mercury using Machine Learning: Supporting MERTIS onboard ESA/JAXA BepiColombo mission

Varatharajan Indhu, D'Amore Mario, Maturilli Alessandro, Helbert Jörn, Hiesinger Harald

P127: EPSC2018-868

Remote Sensing of Planetary Surfaces: Spectroscopy of Planetary Analogs for the BepiColombo Mission

Morlok Andreas, Charlier Bernard, Klemme Stephan, Namur Oliver, Sohn Martin, Weber Iris, Stojic Aleksandra, Hiesinger Harald, Helbert Joern

P128: EPSC2018-908

1:3million Scale Geological Mapping of the Derain Quadrangle, Mercury

Malliband Christopher C., Rothery David A., Balme Matthew R., Conway Susan J.

P129: EPSC2018-936

Analytical investigations of Laser-Produced Impact Melts of Basaltic Rocks

Weber Iris, Morlok Andreas, Hamann Christopher, Martin Dayl J.P., Joy Katherine H., Wogelius Roy, Stojic Aleksandra, Hiesinger Harald, Helbert Jörn

P130: EPSC2018-1092

Spectroscopy of minerals analogs of Mercury under the hermean conditions: The effect of the temperature

Bott Nicolas, Brunetto Rosario, Carli Cristian, Capaccioni Fabrizio, Doressoundiram Alain, Langevin Yves, Perna Davide, Poulet François, Serventi Giovanna, Sgavetti Maria, Borondics Ferenc, Sandt Christophe

P131: EPSC2018-1099

Unveiling Mercury surface composition: results from MESSENGER and future outlooks from the SIMBIO-SYS Visible and Infrared Hyperspectral Imager (VIHI)

Zambon Francesca, Filacchione Gianrico, Capaccioni Fabrizio, Carli Cristian, Capria Maria Teresa, Cremonese Gabriele

P132: EPSC2018-1104

Preliminary color map of the Borealis (H-01) quadrangle of Mercury

Nguyen Ngoc, Bott Nicolas, Doressoundiram Alain

P133: EPSC2018-1129

SERENA particle package: the link between the environment and Mercury ready to launch on board BepiColombo

Orsini Stefano, Milillo Anna, Livi Stefano, Lichtenegger Herbert, Barabash Stas, De Angelis Elisabetta, Kallio Esa, Wurz Peter, Olivieri Angelo, Plainaki Christina, Aronica Alessandro, Lazzarotto Francesco, Rispoli Rosanna and the SERENATeam

P134: EPSC2018-1139

Constraining the interior structure of Mercury by geodesy data

Deproost Marie-Hélène, Rivoldini Attilio, Van Hoolst Tim

P135: EPSC2018-1186

Bedrock layering revealed by hollows on Mercury

Galluzzi Valentina, Giacomini Lorenza, Lucchetti Alice, Pajola Maurizio, Palumbo Pasquale, Cremonese Gabriele

P136: EPSC2018-1209

Time-varying magnetic fields of Mercury

Wardinski Ingo, Langlais Benoit, Thebault Erwan

END OF POSTER PROGRAMME TP1**TP2 Mars Interior and Surface**

Convener: Ernst Hauber

Co-conveners: Gino Erkeling; Solmaz Adeli; Ana-Catalina Plesa

Attendance time: Tuesday, 18:15–20:00

P137: EPSC2018-493

A numerical model of the SEIS leveling system transfer matrix and resonances: application to SEIS rotational seismology and dynamic ground interaction.

Fayon Lucile, Knapmeyer-Endrun Brigitte, Lognonné Philippe, Bierwirth Marco, Kramer Aron, Delage Pierre, Karakostas Foivos, Kedar Sharon, Murdoch Naomi, Garcia Raphaël, Verdier Nicolas, Tillier Sylvain, Pike William T., Hurst Kenneth, Schmelzbach Cédric, Banerdt William B.

P138: EPSC2018-18

Model of the Crustal Magnetic Field in the Martian Aurora Zone

Chen Chuxin

P139: EPSC2018-283

Estimates of Non-hydrostatic Stresses in the Martian Interior

Batov Alexey, Gudkova Tamara, Zharkov Vladimir

P140: EPSC2018-815

Tectonics structures in Noctis Labyrinthus area based on HRSC and CTX photogeological mapping

El Yazidi Mayssa, Pozzobon Riccardo, Debei Stefano, Massironi Matteo

P141: EPSC2018-557

Modeling the internal architecture of Mars Polar Layered Deposits by HCA method

Cianfarra Paola, Rossi Costanza, Salvini Francesco

P142: EPSC2018-294

Structural Mapping of the Inner Layered Deposits of the Crummelin Crater (Mars)

Pesce Dario, Pozzobon Riccardo, Massironi Matteo

P143: EPSC2018-1009

Geodynamic Evolution of Wrinkle Ridges and Rate of Crustal Shortening on Lunae Planum, Mars

Karagöz Oguzcan, Aksoy Murat Ersen, Erkeling Gino

P144: EPSC2018-804

Constraining the geometry and volume of Tharsis dome, Mars using impact craters central peaks

Brustel Clément, Quantin Cathy, Flahaut Jessica, Michaut Chloe, Davies Gareth R.

P145: EPSC2018-425

Volcanic system of Isidis Planitia

Zalewska Natalia, **Kotlarz Jan**

P146: EPSC2018-1130

Rootless cones as a consequence of Martian volcanism-numerical kinetic simulation
Zalewska Natalia, **Kotlarz Jan**

P147: EPSC2018-873

Morphometric Study of Longitudinal Striations on Long Run-out Mass Movements and Ejecta Blankets on Mars: Assessment of a common formation mechanism
Pietrek Alexa, Hergarten Stefan, Kenkmann Thomas

P148: EPSC2018-245

Gully activity in Sisyphi Cavi, Mars
Raack Jan, Conway Susan J., Philippe Meven, Heyer Thomas, Reiss Dennis, Hiesinger Harald

P149: EPSC2018-269

Global properties of Martian Recurring Slope Lineae
Munaretto Giovanni, Cremonese Gabriele, **Pajola Maurizio**, Lazzarin Monica

P150: EPSC2018-882

Locating new areas favourable for Recurring Slope Lineae formation in the northern hemisphere on Mars using GIS and the Mars Climate Database
Eriksson Andreas, Johnsson Andreas

P151: EPSC2018-1005

Possible slow "wet" mass wasting on Mars
Johnsson Andreas, Conway Susan, Deiss Dennis, Hauber Ernst, Hiesinger Harald

P152: EPSC2018-257

Aeolian Transport in Coprates Chasma, Valles Marineris
Boazman Sarah, Grindrod Peter, Balme Matthew, Vermeesch Pieter, Davis Joel

P153: EPSC2018-1

Soil Evaporation on Mars by Magnetic Dipole-Dipole Interactions between Magnetic Clusters
Arias Francisco J

P154: EPSC2018-848

Morphological and spectroscopic analysis of light-toned materials in southeastern Gorgonum Chaos, Mars
Haack David, Adeli Solmaz, Hauber Ernst, Stephan Katrin, Jaumann Ralf

P155: EPSC2018-486

Water Content and Mineral Abundances at Gale Crater, Mars as Inferred from OMEGA and CRISM Observations
Liu Yang, Stachurski Federico

P156: EPSC2018-547

Analysis of Clay Deposits in and around Ladon Basin
Weitz Catherine, Bishop Janice, Grant John

P157: EPSC2018-574

Preliminary wavelengths selection for multispectral detection mode of Mars Mineral Spectrometer of China's First Mars Exploration
Liu Dawei, Ren Xin, Zhang Hongbo, Zhang Zhoubin, Fu Qiang, He Zhiping, Liu Bin, Xu Rui, Chen Yuan

P158: EPSC2018-759

Preliminary Scientific Exploration Programs for Mars Surface Composition Detection Package of China's First Mars Exploration
Ren Xin, Cai Tingni, Liu Dawei, Liu Jianjun, Zhang Hongbo, Fu Qiang, Zhang Zhoubin, Xu Weimin

P159: EPSC2018-505

Super-resolution restored HiRISE images for simulating "rover's eye" views in 3D
Persaud Divya M, Tao Yu, Muller Jan-Peter

P160: EPSC2018-1158

Constraining the soil-moisture interaction at Gale Crater of Mars
Das Priyabrata, Basu Sarbadhikari Amit, Ghosh Jayanta, Sarkar Subham

P161: EPSC2018-14

Seasonal Variations in SEB Components over Gale crater
Rangarajan Vidhya Ganesh, Ghosh Mili

P162: EPSC2018-1119

The study of the influence of the composition and structure of Martian surface on detection the spectral features of atmospheric trace gases in IR spectra of Mars
Blecka Maria

P163: EPSC2018-51

Seasonal changes of near-surface relative humidity on Mars
Pál Bernadett, **Kereszturi Ákos**, Forget Francois

P164: EPSC2018-1153

Methane transport in the subsurface of Mars
Gloesener Elodie, Karatekin Özgür, Dehant Véronique

P165: EPSC2018-390

Subsurface Investigation over Elysium Planitia, Mars using SHARAD data
Xiong Siting, Muller Jan-Peter

P166: EPSC2018-1239

The subsurface water distribution in Gale crater from DAN instrument onboard NASA Curiosity rover
Litvak Maxim, Mitrofanov Igor, Lisov Denis, Nikiforov Sergey, Sanin Anton, Djachkova Maiia

P167: EPSC2018-183

Subsurface Volatile Deposition on Mars
Patel Narissa, Hagermann Axel, Lewis Stephen, Kaufmann Erika, Balme Matt

P168: EPSC2018-929

Investigation of regional settings for formation of Araneiform Terrain, Mars
Hao Jingyan, Michael Gregory, Adeli Solmaz, Jaumann Ralf

P169: EPSC2018-1171

The Radar and Visible Stratigraphic Records of Mars' North Polar Layered Deposits
Becerra Patricio, Nunes Daniel, Smith Isaac, Sori Michael, Brouet Yann, Thomas Nicolas

P170: EPSC2018-860

Comparative studies of gravitational influence of Phobos and Deimos on Mars

Neduncheran Adhithiyan, Guven Ugur, Chandra Rohan, Gireesh Lv, Mehoratra Amritansh

END OF POSTER PROGRAMME TP2**TP5 Atmospheres of terrestrial planets**

Convener: Anni Määttänen

Co-conveners: Olivier Witasse;

Francisco González-Galindo; Dmitrij Titov

Attendance time: Tuesday, 18:15–20:00

P172: EPSC2018-697

An analytical climate model to reproduce first order, yearly-averaged, climatology on early Mars: implications for the ancient lakes in Gale crater

Kling Alexandre, Haberle Robert

P173: EPSC2018-777

Migration of intermediately-sized particles across the Martian surface

Paton Mark, **Savijärvi Hannu**, Harri Ari-Matti

P174: EPSC2018-1051

Comparison of a 1D column model with temperature soundings in the Martian atmosphere

Paton Mark, Harri Ari-Matti, Savijärvi Hannu

P175: EPSC2018-648

Photochemical model of the Martian atmosphere to investigate the fate of trace gases

Witek Piotr, Wajer Paweł, Banaszkiwicz Marek, Kofman Wlodek, Czechowski Leszek, Pommerol Antoine

P176: EPSC2018-811

Martian CO and wind measurements from ALMA observations

Robert Séverine, Sagawa Hideo, Vandaele Ann Carine, Aoki Shohei

P177: EPSC2018-717

Creating high-spatial resolution atmospheric profiles from the GEM-Mars GCM for the investigation of Mars

Erwin Justin, Neary Lori, Daerden Frank, Viscardy Sébastien, Vandaele Ann Carine

P178: EPSC2018-187

UV Mars emissions from CO and CO₂⁺: IUVS-MAVEN limb observations and model

Gérard Jean-Claude, Gkouvelis Leo, Ritter Birgit, Hubert Benoit, Jain Sonal, Schneider Nicholas, Shematovich Valery, Bisikalo Dmitry

P179: EPSC2018-595

O₂ distributions and related chemistry on Mars: Potential scientific targets for the future Mars terahertz sensor missions

Kuroda Takeshi, Larsson Richard, Sagawa Hideo, Aoki Shohei, Kasai Yasuko, Maezawa Hiroyuki, Kasaba Yasumasa

P180: EPSC2018-604

Non-thermal escape rates of light species from Mars using MAVEN in-situ measurements

Gacesa Marko, Lillis Robert, Deighan Justin, Elrod Meredith

P181: EPSC2018-1101

Simulations of the Mars' upper atmosphere - influence of varying EUV flux

Amerstorfer Ute, Amerstorfer Tanja, **Lichtenegger Herbert**, Johnstone Colin

P182: EPSC2018-917

High-Level Science Products of SPICAM (Mars Express) and SPICAV (Venus Express)

Cox Nick, Baggio Lucio, Bertaux Jean-Loup, Blanot Laurent, Delaye Lauriane, Lacombe Gaetan, Lefevre Franck, Marcq Emmanuel, Montmessin Franck

P183: EPSC2018-875

Study of Venus Cloud movements by comparative analysis with Terrestrial Planets

Neduncheran Adhithiyan, Lai James, Gamal Hamed, Potrivitu George Cristian, Greech Jessica, Arunan Sinnappoo

P184: EPSC2018-570

Local-time dependence of the zonal wave number spectra derived from the Venus cloud-top Temperature observed by Akatsuki LIR

Fukuhara Tetsuya, Nagata Aya, Taguchi Makoto, Imamura Takeshi and the LIR Project team

P185: EPSC2018-1135

X ray spectroscopy of planetary atmospheres

Narendranath Shyama, Singham Panini, Parameswaran Sreekumar, Chandra Babu

END OF POSTER PROGRAMME TP5**TP6/SB21 Ionospheres of Unmagnetized Bodies in the Solar System: Terrestrial Planets and comets (co-organized)**

Convener: Beatriz Sanchez - Cano

Co-conveners: Pierre Henri;

Francisco González-Galindo; Chris Fowler; Matteo Crismani

Chairpersons: Beatriz Sanchez-Cano,

Francisco Gonzalez-Galindo

Attendance time: Tuesday, 18:15–20:00

P186: EPSC2018-250

The effect of solar flares on comet 67P and RPC/LAP

Edberg Niklas, Johansson Fredrik, Eriksson Anders, Simon Wedlund Cyril, Alho Markku, Andrews David, Odelstad Elias, Henri Pierre

P187: EPSC2018-1176

Observations of mixed warm and cold electrons with RPC-MIP at comet 67P/Churyumov-Gerasimenko

Gilet Nicolas, Henri Pierre, Eriksson Anders, Vallières Xavier, Wattieaux Gaëtan, Goetz Charlotte, Moré Jérôme, Randriamboarison Orélien, Odelstad Elias, Johansson Fredrik

P188: EPSC2018-230

Correction of Low-Energy Ion Measurements from Rosetta-ICA for the Effects of Spacecraft Charging

Bergman Sofia, Stenberg Wieser Gabriella, Wieser Martin, Johansson Fredrik

P189: EPSC2018-1075

Plasma waves near the diamagnetic cavity of comet 67P

Odelstad Elias, Eriksson Anders, Karlsson Tomas, Breuillard Hugo, Goetz Charlotte, Henri Pierre

P190: EPSC2018-951

An analytic model of comet ionosphere chemistry

Vigren Erik

P191: EPSC2018-521

Observations with MEX and MAVEN in the Martian tail during late 2016

Stergiopoulou Katerina, Andrews David

P192: EPSC2018-613

Reduced Atmospheric Ion Escape Above Martian Crustal Magnetic Field

Fan Kai, Wei Yong, Fraenz Markus, Dubinin Eduard, Cui Jun, Chai Lihui, Rong Zhaojin, Zhong Jun, Mcfadden James, Connerney Jack

P193: EPSC2018-45

Ion Escape from Mars - Observations by Mars Express and MAVEN

Fränz Markus, Dubinin Eduard, Maes Lukas, McFadden Jim, Jakosky Bruce

P194: EPSC2018-319

Variability of the precipitating fluxes during September 2017 event

Martinez Antoine, Leblanc François, Witasse Olivier, Mondolo Ronan, Titov Dima, Romanelli Norberto, Chaufray Jean-Yves

P195: EPSC2018-437

Study of the couplings in the Mars' atmosphere with the Mars Express MARSIS total electron content data set

Witasse Olivier, Sánchez-Cano Beatriz, Lester Mark, Blelly Pierre-Louis, Indurain Mikel, Cartacci Marco

P196: EPSC2018-22

Mars Nightside Ionosphere Structure revealed by MAVEN

Lillis Robert, Fillingim Matthew, Fowler Christopher, Andersson Laila, Mitchell David, Benna Mehdi, Elrod Meredith, Halekas Jasper, Espley Jared

END OF POSTER PROGRAMME TP6/SB21

Terrestrial Planets

TP4 ExoMars - First results from the TGO and plans for the 2020 Rover and Surface Platform

Convener: Håkan Svedhem

Co-conveners: Maurizio Pajola; Manish R. Patel; Daniel Rodionov; Jorge Vago

Lecture Room: Jupiter

08:30–10:15

Chairperson: M. Pajola

Introduction and Overview

08:30–08:45: EPSC2018-1106

ExoMars Trace Gas Orbiter - Status and future activities
Svedhem Håkan, Vago Jorge L., Rodionov Daniel

08:45–09:00: EPSC2018-141

CaSSIS - First images from science orbit

Thomas Nicolas, Cremonese Gabriele, Almeida Miguel, Banaszkiewicz Marek, Becerra Patricio, Bridges John, Byrne Shane, Da Deppo Vania and the CaSSIS Science Team

09:00–09:15: EPSC2018-413

Fine Resolution Epithermal Neutron Detector (FREND) onboard TGO. First results from cruise, elliptical capture orbit and science mapping phase.

Mitrofanov Igor, Litvak Maxim, Sanin Anton, Golovin Dmitry, Malakhov Alexey, Kozyrev Alexander, Mokrousov Maxim, Vostrukhin Andrey, Nikiforov Sergey, Semkova Jordanka, Koleva Rositza, Krastev Krasimir, Benghin Victor, Dachev Tsvetan, Matviichuk Yuri, Tomov Borislav, Maltchev Stephan, Dimitrov Plamen

09:15–09:30: EPSC2018-211

NOMAD on ExoMars Trace Gas Orbiter: status and preliminary results

Vandaele Ann Carine, Lopez-Moreno Jose-Juan, Bellucci Giancarlo, Patel Manish R., Daerden Frank, Thomas Ian R., Neefs Eddy, Ristic Bojan, Berkenbosch Sophie, Beeckman Bram, Clairquin Roland, Queirolo Claudio and the NOMAD Team

09:30–09:45: EPSC2018-831

The Atmospheric Chemistry Suite (ACS) on board the ExoMars Trace Gas Orbiter

Korablev Oleg, Montmessin Franck, Trokhimovskiy Alexander, Fedorova Anna, Ignatiev Nikolay, Shakun Alexey, Grigoriev Alexey and the ACS Team

Surface and Subsurface Investigations

09:45–10:00: EPSC2018-272

Ices, frosts and clouds on Mars observed by CaSSIS during the first months of TGO's primary science mission

Pommerol Antoine, Thomas Nicolas, Yoldi Zurine, Roloff Victoria, Almeida Miguel, Becerra Patricio, Tulyakov Stepan, Tornabene Livio, Seelos Frank, Bapst Jonathan, Hansen Candice, Portyankina Ganna, Lucchetti Alice, Pajola Maurizio, DoutéSylvain, Patel Manish, Cremonese Gabriele

10:00–10:15: EPSC2018-455

Short-Term Equatorial Albedo Changes on Mars: Deliquescence or Dust?

McEwen Alfred, Thomas Nicolas, Pommerol Antoine, Leung Cecilia, Sutton Sarah, Perry Jason, Scheidt Stephen, Chojnacki Matthew

10:15 Coffee break

10:45–12:30

Chairperson: H. Svedhem

Trace Gasses Investigations

10:45–11:00: EPSC2018-790

Performance and the sensitivity of the ACS MIR channel, first months of solar occultations

Trokhimovskiy Alexander, Fedorova Anna, Patrakeeve Andrey, Kokonkov Nikita, Bertaux Jean-Loup, Shakun Alexey, Montmessin Franck, Korablev Oleg

11:00–11:15: EPSC2018-773

Preliminary results on water vapor retrievals from the first data of TGO/NOMAD

Aoki Shohei, Vandaele Ann Carine, Robert Séverine, Thomas Ian R., Trompet Loïc, Erwin Justin T., Piccialli Arianna, Mahieux Arnaud, Daerden Frank, Neary Lori, Viscardy Sébastien, Ristic Bojan, Villanueva Geronimo L., Liuzzi Giuliano, Mumma Michael J., Smith Michael D., Giuranna Marco, Patel Manish R., Bellucci Giancarlo, Lopez-Moreno Jose Juan and the NOMAD team

11:15–11:30: EPSC2018-1150

Wide-altitude range H₂O profile from ACS MIR and ACS NIR data

Fedorova Anna, Montmessin Franck, Trokhimovskiy Alexander, Korablev Oleg, Kevin Olsen, Lomakin Alexander, Korsa Svyatoslav, Patrakeeve Andrey, Shakun Alexey, Bertaux Jean-Loup

11:30–11:45: EPSC2018-472

Exploring HDO and H₂O on Mars with the ACS instrument onboard TGO

Montmessin Franck, Fedorova Anna, Korablev Oleg, Trokhimovskiy Alexander, Olsen Kevin, Rossi Loïc, Fouchet Thierry, Encrenaz Thérèse, Lellouch Emmanuel, Jean-Loup Bertaux

11:45–12:00: EPSC2018-742

Model expectations for the D/H distribution on Mars as observed by NOMAD

Daerden Frank, Neary Lori, Viscardy Sébastien, Aoki Shohei, Piccialli Arianna, Robert Séverine, Wilquet Valérie, Thomas Ian, Ristic Bojan, Vandaele Ann Carine, Villanueva Geronimo, Mumma Michael, Novak Robert, Encrenaz Thérèse, Lewis Stephen, Holmes James, López-Moreno José Juan, Bellucci Giancarlo, Patel Manish and the NOMAD team

12:00–12:15: EPSC2018-925

Observations of carbon monoxide (CO) by the Atmospheric Chemistry Suite (ACS) on board the Trace Gas Orbiter

Lefèvre Franck, Fedorova Anna, Trokhimovskiy Alexander, Belyaev Denis, Ignatiev Nikolay, Grigoriev Alexey, Savelyeva Natalia, Shakun Alexey, Olsen Kevin, Montmessin Franck, Korablev Oleg

12:15–12:30: EPSC2018-665

First measurements of Martian CO by NOMAD/EMTGO
Robert Séverine, Erwin Justin T., Aoki Shohei, Trompet Loïc, Vandaele Ann Carine, Thomas Ian R., Smith Michael D., Villanueva Geronimo L., Giuranna Marco, Hill Brittany, Funke Bernd, Lopez-Puertas Manuel, Lopez-Valverde Miguel A., Daerden Frank, Neary Lori, Ristic Bojan, Viscardy Sébastien, Bellucci Giancarlo, Lopez-Moreno José Juan, Patel Manish R. and the NOMAD team

12:30 Lunch break**14:00–15:45**

Chairperson: M. Patel

14:00–14:15: EPSC2018-490

Performance of the ACS NIR channel and O₂ profiles
Fedorova Anna, Trokhimovskiy Alexander, Korablev Oleg, Montmessin Franck, Gizatullin Karim, Betsis Daria, Lomakin Alexander, Patrakeev Andrey, Kokonkov Nikita, Shakun Alexey, Bertaux Jean-Loup

14:15–14:30: EPSC2018-1141

Ozone and total opacity observation with the NOMAD-UVIS spectrometer
Hewson Will, Patel Manish, Mason Jon, Leese Mark, Hathi Brijen, Sellers Graham, Holmes James, Lewis Stephen, Irwin Patrick, Willame Yannick, Vandaele Ann Carine, Depiesse Cedric, Thomas Ian, Ristic Bojan, Piccialli Arianna, Daerden Frank, Wolff Michael, Clancy Todd, Villanueva Geronimo, Hubert Benoît and the NOMAD Team

14:30–14:45: EPSC2018-944

First retrievals of ozone vertical profiles from NOMAD-UVIS
Piccialli Arianna, Vandaele Ann Carine, Willame Yannick, Depiesse Cedric, Trompet Loïc, Neary Lori, Viscardy Sébastien, Daerden Frank, Thomas Ian R., Ristic Bojan, Hewson Will, Mason Jon P., Patel Manish R., Sellers Graham, Clancy Todd, Villanueva Geronimo, Hubert Benoit, Altieri Francesca, Bellucci Giancarlo, Lopez-Moreno José-Juan and the NOMAD Team

Thermal structure and Aerosols**14:45–15:00: EPSC2018-891**

Monitoring of the atmosphere of Mars with ACS TIRVIM nadir observations on ExoMars TGO
Ignatiev Nikolay, Grigoriev Alexey, Shakun Alexey, Moshkin Boris, Patsaev Dmitry, Trokhimovskiy Alexander, Korablev Oleg, Grassi Davide, Vlasov Pavel, Zasova Ludmila, Guerlet Sandrine, Forget François, Montmessin Franck, Arnold Gabriele, Sazonov Oleg, Zharkov Alexander, Maslov Igor, Kungurov Andrey, Santos-Skripko Aleksandr, Shashkin Viktor and the ACS TIRVIM TEAM

15:00–15:15: EPSC2018-441

Occultation results by ACS TIRVIM at ExoMars TGO: aerosols and gases
 Grigoriev Alexey, **Shakun Alexey**, Ignatiev Nikolay, Moshkin Boris, Patsaev Dmitry, Zharkov Alexander, Maslov Igor, Gorinov Dmitry, Kungurov Andrey, Santos-Skripko Aleksandr, Shashkin Viktor, Martynovich Fedor, Sazonov Oleg, Stupin Igor, Merzlyakov Dmitry, Nikolskiy Yuriy, Luginin Mikhail, Trokhimovskiy Alexander, Montmessin Franck, Korablev Oleg

15:15–15:30: EPSC2018-760

Preliminary results on carbon dioxide and temperature profiles from NOMAD SO
Trompet Loïc, Vandaele Ann Carine, Thomas Ian, Robert Séverine, Aoki Shohei, Erwin Justin, Piccialli Arianna, Wilquet Valérie, Funke Bernd, Hill Brittany, López-Valverde Miguel Ángel, López-Puertas Manuel, López-Moreno José Juan, García-Cornas Maya, Giuranna Marco, Oliva Fabrizio, Daerden Frank, Bellucci Giancarlo, Patel Manish, Mahieux Arnaud and the NOMAD team

15:30–15:45: EPSC2018-794

CO₂ density and temperature profiles of Mars atmosphere: first retrievals from the ACS MIR solar occultations
Belyaev Denis, Montmessin Franck, Fedorova Anna, Bertaux Jean-Loup, Olsen Kevin, Trokhimovskiy Alexander, Patrakeev Andrey, Shakun Alexey, Korablev Oleg

**END OF WEDNESDAY ORAL PROGRAMME TP4
 ORAL PROGRAMME TP4 CONTINUES
 ON THURSDAY**

**TP8/OPS11/MD5/SB23 Volcanism and
 tectonism across the Solar system
 (co-organized)**

Convener: Petr Broz

Co-conveners: Paul Byrne; Ernst Hauber; Vera Assis Fernandes; Nicolle Zellner; Clive Neal

Lecture Room: Venus

14:00–15:30

Chairperson: Vera Assis Fernandes

14:00–14:15: EPSC2018-609

A new look at the Moon using Chang'e-2 microwave radiometer data (solicited talk)
Bugiolacchi Roberto, Hu Guoping, Chan Kwing Lam

14:15–14:30: EPSC2018-968

Hf/W insights into the primeval Moon (solicited talk)
Thiemens Maxwell, Sprung Peter, Fonseca Raúl, Leitzke Felipe, Münker Carsten

14:30–14:45: EPSC2018-430

Deep tectonics exposed in northern Valles Marineris, Mars
Gurgurewicz Joanna, Mege Daniel

14:45–15:00: EPSC2018-884

The impact of data resolution and magmatic resurfacing events on understanding fault growth behaviour in the volcanic regions of Iceland and Mars
Bramham Emma, Paton Douglas

15:00–15:15: EPSC2018-193

How to Measure Io's Lava Eruption Temperatures with a Novel Infrared Detector and Readout Circuit
Davies Ashley, Soibel Alexander, Ting David, Johnson William, Hayne Paul, Blackwell Megan

15:15–15:30: EPSC2018-112

Possible Subsurface Sediment Mobilization and Release of Volatiles in Southern Chryse Planitia, Mars
Brož Petr, Hauber Ernst, van de Burgt Ilse

END OF ORAL PROGRAMME TP8/OPS11/MD5/SB23

Outer Planet Systems

OPS5/TP11 Aerosols and clouds in planetary atmospheres (co-organized)

Convener: Nathalie Carrasco

Co-conveners: Anni Määttänen; P. Lavvas

Lecture Room: Uranus

08:30–10:15

Chairperson: Nathalie Carrasco

08:30–08:45: EPSC2018-194

Expanded line-of-sight extinction measurements from the Mars Science Laboratory at Gale Crater, Mars
Smith Christina, Moores John, Moore Casey, Guzewich Scott

08:45–09:00: EPSC2018-371

Methane and ethane adsorption and nucleation on tholins
Rannou Pascal, Curtis Daniel, Cordier Daniel

09:00–09:15: EPSC2018-718

Spatial and temporal variability of Titan's detached haze layer during the Cassini mission
Seignovert Benoît, Rannou Pascal, West Robert A.

09:15–09:30: EPSC2018-69

Comparison of soluble and insoluble organic matter in analogues of Titan's aerosol
Maillard Julien, Carrasco Nathalie, Gautier Thomas, Schmitz-Afonso Isabelle, Afonso Carlos

09:30–09:45: EPSC2018-594

Identifying the enigmatic Haystack and HASP ice clouds observed by CIRS in Titan's stratosphere
Nna-Mvondo Delphine, Anderson Carrie M., Samuelson Robert E.

09:45–10:00: EPSC2018-659

Photodesorption and Photochemistry of Titan's Aerosol Analogs
Gudipati Murthy, Fleury Benjamin, Couturier-Tamburelli Isabelle, Carrasco Nathalie

10:00–10:15: EPSC2018-200

Evolution of organic aerosols under conditions similar to Titan's ionosphere
Chatain Audrey, Carrasco Nathalie, Guaitella Olivier, Ruscassier Nathalie

END OF ORAL PROGRAMME OPS5/TP11

OPS6/TP17/EXO8 Planetary aeronomy: Near and afar (co-organized)

Convener: Tommi Koskinen

Co-conveners: Antonio Garcia Munoz; P. Lavvas

Lecture Room: Uranus

10:45–12:15

Chairperson: Tommi Koskinen

10:45–11:00: EPSC2018-656

Four years of upper atmospheric exploration at Mars with MAVEN and IUVS (solicited talk)

Montmessin Franck, Schneider Nicholas, Deighan Justin, Jain Sonal, Evans Scott, Crismani Matteo, Stevens Michael, Lo Daniel, Clarke John, Chaffin Michael, Mayyasi Majd, Lefevre Franck, Stiepen Arnaud, Royer Emilie, Milby Zachariah, Groeller Hannes, Yelle Roger, Nakagawa Hiromu

11:00–11:10: EPSC2018-405

Ionization Efficiency in the Dayside Martian Upper Atmosphere

Wu Xiaoshu, Cui Jun, Xu Shaosui

11:10–11:25: EPSC2018-1233

Ground-based observations of hot exoplanet upper atmospheres (solicited talk)

Wytenbach Aurélien

11:25–11:40: EPSC2018-589

Modeling the Upper Atmospheres of Exoplanets: Energy Deposition and Escape (solicited talk)

Glocer Alex, Cohen Ofer, Airapetian Vladimir, Garcia-Sage Katherine, Gronoff Guillaume, Kang Suk-Bin, Danchi William

11:40–11:50: EPSC2018-399

A large grid of super-Earth upper atmosphere models and its application to planetary evolution

Kubyshkina Daria, Fossati Luca, Erkaev Nicolay, Johnstone Colin, Cubillos Patricio, Kislyakova Kristina, Lammer Helmut, Lendl Monika, Odert Petra

11:50–12:05: EPSC2018-1200

Results and thoughts on H_3^+ observations of solar system giant planets (solicited talk)

ODonoghue James, Melin Henrik, Moore Luke, Stallard Tom

12:05–12:15: EPSC2018-919

Energy balance in Saturn's upper atmosphere

Müller-Wodarg Ingo, Koskinen Tommi, Moore Luke, Mendillo Michael

END OF ORAL PROGRAMME OPS6/TP17/EXO8

Modelling and Database

MD2/MTI4/LFI4 Machine Learning for Planetary Science in times of increasing data volume and complexity (co-organized)

Convener: Mario D'Amore

Co-conveners: Stéphane Erard; Jörn Helbert

Lecture Room: Neptune

08:30–10:00

08:30–08:45: EPSC2018-679

Automated detection of planetary craters: open and reproducible benchmark platform for the Martian surface
Van den Bossche Joris, Boucaud Alexandre, Schmidt Frédéric, Lemaître Guillaume, Lagain Anthony, Meresescu Alina, Kégl Balazs

08:45–09:00: EPSC2018-798

Deep Learning-Based Anomaly Detection to Find Changes over the Martian South Pole
Putri Alfiah Rizky Diana, Sidiropoulos Panagiotis, Muller Jan-Peter

09:00–09:15: EPSC2018-829

Detection of early warning signals in paleoclimate data using a genetic time series segmentation algorithm
Nikolaou Athanasia, Gutiérrez Pedro Antonio, Durán Rosal Antonio, Fernández-Navarro Francisco, Hervás-Martínez César, Pérez-Ortiz Maria

09:15–09:30: EPSC2018-844

Advanced Techniques for Signal Search and Automatic Classification of Observational Space Data
Al-Ubaidi Tarek, Khodachenko Maxim, Kern Roman, Granitzer Michael, Poedts Stefaan

09:30–09:45: EPSC2018-1089

Detection of sub-km craters on Mars for equilibrium population statistics
Francis Alistair, Muller Jan-Peter, Sidiropoulos Panagiotis, Persaud Divya

09:45–10:00: EPSC2018-738

Semi-automated surface mapping via unsupervised classification Mercury's Visible-Near-Infrared reflectance spectra
D'Amore Mario, Helbert Jörn, Maturilli Alessandro, Varatharajan Indhu

END OF ORAL PROGRAMME MD2/MTI4/LFI4

Missions, Techniques and Industry

MTI5 Future Planetary missions and instrumentation (L class, M class, New frontiers, Discovery, etc.)

Convener: Brook Lakew

Co-conveners: Olivier Mousis; Kim Reh; Anil Bhardwaj; Frank Jansen

Lecture Room: Saturn

08:30–10:15

Chairpersons: Brook Lakew, Olivier Mousis

08:30–08:45: EPSC2018-468

Hera - the European contribution to the first Asteroid deflection demonstration
Küppers Michael, Michel Patrick, Carnelli Ian

08:45–09:00: EPSC2018-499

Design and development of an interferometric readout for planetary seismometers.
Fayon Lucile, Halloin Hubert, Lognonné Philippe, De Raucourt Sébastien

09:00–09:15: EPSC2018-652

AIRS: the Infrared Spectroscopic Instrument of ESA M4 ARIEL mission
Amiaux Jerome, Berthé Michel, Boulade Olivier, Cara Christophe, Lagage Pierre Olivier, Moreau Vincent, Hamm Vincent, Morinaud Gilles, Ollivier Marc, André Yves, Geoffroy Hervé, Eccleston Paul, Middleton Kevin, Pascale Enzo, Freiricks Martin, Focardi Mauro, Pace Emanuele

09:15–09:30: EPSC2018-77

Multiband, infrared imager for study of high temperature volcanism on Io
Soibel Alexander, Davies Ashley G., Ting David, Johnson William, Blackwell Megan, Hayne Paul

09:30–09:45: EPSC2018-696

FOSSIL: Fragments from the Origins of the Solar System and our Interstellar Locale
Horanyi Mihaly and the FOSSIL

09:45–10:00: EPSC2018-715

Observations of Transient Luminescent Phenomena on the Moon From a Deep Space Platform
Oberst Jürgen

10:00–10:15: EPSC2018-771

Exploring the Ice Giant Systems
Hofstadter Mark, Simon Amy

10:15 Coffee break

10:45–12:30**Chairpersons:** Kim Reh, Anil Bhardwaj**10:45–11:00: EPSC2018-462**The Surface Dust Analyzer (SUDA) on Europa Clipper
Kempf Sascha**11:00–11:15: EPSC2018-820**Europe's future exploration of Main Belt Comets
Snodgrass Colin, Jones Geraint, Bowles Neil, Gibbings Alison, Taylor Matt, Franchi Ian, Sheridan Simon**11:15–11:30: EPSC2018-937**Exploring geospace via solar wind charge exchange X-rays
Branduardi-Raymont Graziella, Sembay Steve, Carter Jenny, Ezoe Yuichiro**11:30–11:45: EPSC2018-994**Rotational Push-broom Imaging from a Planetary Penetrator
Brydon George, Jones Geraint**11:45–12:00: EPSC2018-1042**Jovian Neutrals Analyzer for the Particle Environment Package onboard JUICE
Shimoyama Manabu, Asamura Kazushi, Pontoni Angèle, Neuland Maike, Karlsson Stefan, Wieser Martin, Futaana Yoshifumi, Barabash Stas**12:00–12:15: EPSC2018-1076**Penetrators as a deployment tool for Mass Spectrometer instrumentation
Sheridan Simon, Barber Simeon, Morse Andrew, Snodgrass Colin**12:15–12:30: EPSC2018-1178**DEMOCRITOS: Demonstrator Projects for MW class Nuclear Spacecraft
Detsis Emmanuel, **Worms Jean-Claude****12:30 Lunch break****14:00–15:45****Chairpersons:** Brook Lakew, Frank Jansen**14:00–14:15: EPSC2018-1188**Proposed Hyperspectral Imager for Planetary Surface Missions
Huntly Carys, Langstaff Dave, Gunn Matt, Laurent Boris, Cross Rachel, Tyler Laurence, Knight Tom**14:15–14:30: EPSC2018-1213**Utilisation Opportunities on the Lunar Orbital Platform - Gateway
Carpenter James, Hatton Jason**14:30–14:45: EPSC2018-1282**Towards a European Stratospheric Balloon Observatory - Planetary Science Applications
Maier Philipp, Wolf Jürgen, Keilig Thomas, Krabbe Alfred, Duffard René, Ortiz Jose Luis, Klinkner Sabine, Lengowski Michael, Müller Thomas, Lockowandt Christian, Krokstedt Christian, Kappelmann Norbert, Stelzer Beate, Werner Klaus, GeierStephan, Kalkuhl Christoph, Rauch Thomas, Schanz Thomas, Barnstedt Jürgen, Conti Lauro, Hanke Lars, Angerhausen Daniel**14:45–15:00: EPSC2018-236**Supporting M5 Science Missions to Small Bodies - An OHB Perspective
Gibbings Alison, Oberst Juergen, Snodgrass Colin, Bowles Neil, Franchi Ian**15:00–15:15: EPSC2018-355**Venturing to Near-Earth Asteroid systems using Nuclear Electric Propulsion
Damme Friedrich, Oberst Jürgen, Jansen Frank**15:15–15:30: EPSC2018-364**A Proposed Mission to Very Low Mars Orbit - Supported by an Electric Propulsion System
Wickhusen Kai, Oberst Jürgen, Damme Friedrich**15:30–15:45: EPSC2018-370**Emirates Mars Mission (EMM) 2020 Overview
Sharaf Omran, Amiri Sarah, AlDhafri Suhail, AlRais Adnan, Wali Mohammad, AlShamsi Zakareyya, AlQasim Ibrahim, AlHarmoodi Khuloud, AlTeneiji Nour, Almatroushi Hessa, **AlShamsi Mariam**, AlTeneiji Eman, Lootah Fatma, Badri Khalid, McGrath Michael, Withnell Pete, Ferrington Nicolas, Reed Heather, Landin Brett, Ryan Sean and the EMM Team**END OF ORAL PROGRAMME MT15****Exoplanets and Origins****EXO2 Formation and Dynamical Evolution of Planetary Systems****Convener:** Ravit Helled**Co-convener:** Yann Alibert**Lecture Room:** Neptune**10:45–12:15****Chairperson(s):** N.N.**10:45–11:00: EPSC2018-13**The First Accurate and Quantitative Model of the Formation of Terrestrial Planets and Origin of Earth's Water
Haghighipour Nader, Maindl Thomas**11:00–11:15: EPSC2018-32**One step closer to unveiling the planetesimal-formation process
Blum Jürgen**11:15–11:30: EPSC2018-59**Metallicity effect and planet mass function in pebble-based planet formation models
Brügger Natacha, Alibert Yann, Ataiee Sareh, Benz Willy**11:30–11:45: EPSC2018-132**Gradual desiccation of rocky protoplanets from aluminum-26 heating
Lichtenberg Tim, Golabek Gregor J., Burn Remo, Meyer Michael R., Alibert Yann, Gerya Taras V., Mordasini Christoph A.

11:45–12:00: EPSC2018-231

On the stability of 3D exoplanetary systems

Volpi Mara, Libert Anne-Sophie, Roisin Arnaud**12:00–12:15: EPSC2018-345**

Destruction by Protoplanetary Winds - How Stable are Planetesimals?

Demirci Tunahan, Kruss Maximilian, Teiser Jens, Bogdan Tabea, Jungmann Felix, Schneider Niclas, Wurm Gerhard**12:15 Lunch break****14:00–15:30****14:00–14:15: EPSC2018-376**

Reproducing the Architecture of TRAPPIST-1 using Global Formation and Evolution Models

Burn Remo, Alibert Yann, Mordasini Christoph, Leleu Adrien, Schlecker Martin**14:15–14:30: EPSC2018-400**

Layered semi-convection and tides in giant planet interiors

Andre Quentin, Mathis Stephane, Barker Adrian**14:30–14:45: EPSC2018-439**

Tidal dissipation in the host star of short-period exoplanetary systems

Mathis Stéphane, Bolmont Emeline, Gallet Florian, Damiani Cilia, Charbonnel Corinne, Amard Louis, Alibert Yann**14:45–15:00: EPSC2018-532**

Do magnetic fields modify tidal dissipation in the convective envelope of low-mass stars along their evolution?

Astoul Aurélie, Mathis Stéphane, Baruteau Clément, Strugarek Antoine, Bolmont Emeline, Gallet Florian, Augustson Kyle**15:00–15:15: EPSC2018-608**

Origin of close-in super-Earths: In-situ formation in an evolving disk due to disk winds

Ogihara Masahiro, Kokubo Eiichiro, Suzuki Takeru, Morbidelli Alessandro**15:15–15:30: EPSC2018-615**

Geophysical Testing of Large Scale Migration of Planetesimals in the Early Solar System

Castillo Julie, Vernazza Pierre**END OF WEDNESDAY ORAL PROGRAMME EXO2
ORAL PROGRAMME EXO2 CONTINUES
ON THURSDAY****EXO5 Plasma and magnetospheric environments of exoplanets: Modelling and probing****Convener:** Maxim Khodachenko**Co-conveners:** Ildar F. Shaikhislamov; Navin Dwivedi; Igor Alekseev**Lecture Room:** Venus**08:30–10:00****Chairperson:** Khodachenko M.L.**08:30–08:35: Introduction****08:35–08:45: EPSC2018-237**

Influence of the dipolar magnetic field on the hot jupiter envelopes

Bisikalo Dmitry**08:45–08:55: EPSC2018-151**

Global 3D multi-fluid aeronomy simulation of the HD 209458b

Shaikhislamov Ildar F., Khodachenko Maxim L., Al-Ubaidi Tarek, Lammer Helmut, Berezutsky Artem G., Miroshnichenko Ilya B., Rumenskikh Marina S.**08:55–09:05: EPSC2018-240**

Modelling observability of Star-planet interaction

Fischer Christian, Saur Joachim**09:05–09:15: EPSC2018-1054**

The Kompot Code: first-principles upper atmosphere modelling and the evolution of planetary atmospheres

Johnstone Colin**09:15–09:25: EPSC2018-461**

Observations of fast-moving structures in the debris disk of AU Microscopii: A possible case of star-planet interactions at large orbital distances

Boccaletti Anthony, Sezestre Elie, Lagrange Anne Marie, Thébault Philippe**09:25–09:35: EPSC2018-830**

The search for exoplanetary radio emission: Jupiter as an exoplanet

Grißmeier Jean-Mathias, Turner Jake D., Zarka Philippe, Iaroslavna Iaroslavna**09:35–09:45: EPSC2018-989**

Planetary Magnetism as a Parameter in Exoplanet Habitability

McIntyre Sarah**09:45–09:55: EPSC2018-1134**

Alfvenic current system in Saturn's magnetosphere and time variation of the magnetic field in the outer Saturn magnetosphere.

Alexeev Igor, Belenkaya Elena, Cowley Stan, Lavrukhin Aleksander, Parunakian David, Pensionerov Ivan**09:55–10:00: Summary****END OF ORAL PROGRAMME EXO5**

Small Bodies (comets, KBOs, rings, asteroids, meteorites, dust)

SB2 Asteroid shapes from near and far

Convener: Anna Marciniak

Co-conveners: Thomas Müller; Josef Durech

Lecture Room: Uranus

14:00–15:45

Chairperson: Josef Durech

14:00–14:15: EPSC2018-135

ESO/VLT/SPHERE Survey of D>100km Asteroids (2017-2019): First Results

Vernazza Pierre and the HARISSA team

14:15–14:30: EPSC2018-534

ESO/VLT/SPHERE Survey of D>100km Asteroids (2017-2019): (16) Psyche

Viikinkoski Matti and team

14:30–14:45: EPSC2018-153

ESO/VLT/SPHERE Survey of D>100km Asteroids (2017-2019): (7) Iris

Hanus Josef and the HARISSA team

14:45–15:00: EPSC2018-746

The Thermal Response of Asteroid Surfaces: Results from ESO Large Programme

Lowry Stephen, Rozek Agata, Rozitis Benjamin, Zegmott Tarik, Green Simon, Snodgrass Colin, Fitzsimmons Alan, Weissman Paul, Brown Eloise

15:00–15:15: EPSC2018-1053

Asteroid spin properties derived from thermal data

Müller Thomas, Ali-Lagoa Víctor, Durech Josef, Marciniak Anna, Szakáts Róbert

15:15–15:30: EPSC2018-489

Thermal properties of slowly rotating asteroids

Marciniak Anna, Muller Thomas, Ali-Lagoa Victor, Bartczak Przemysław

15:30–15:45: EPSC2018-178

Physical properties of asteroids using the WFCAM Transit Survey and the Virtual Observatory

Cortes-Contreras Miriam, Jiménez-Esteban Francisco, Solano Enrique, Carry Benoit, Rodríguez Carlos

END OF ORAL PROGRAMME SB2

SB12/MD10 Imaging, photometry and spectroscopy of small bodies and planetary surfaces: theory and methods (co-organized)

Convener: Stéphane Erard

Co-convener: Frédéric Schmidt

Lecture Room: Mars

14:00–15:45

14:00–14:15: EPSC2018-222

Dust environment of distant comet C/2014 A4 (SONEAR)

Ivanova Oleksandra, Kolokolova Ludmilla, Das Himadri Sekhar, Luk'yanyk Igor, Afanasiev Viktor

14:15–14:30: EPSC2018-1229

Transient Tracker: An easier way to (photometrically) catch an asteroid or comet.

Gay Pamela, Myers Joseph

14:30–14:45: EPSC2018-273

MOVIS catalog: near-infrared colors and taxonomy of asteroids observed by VISTA-VHS survey

Popescu Marcel, Licandro Javier, de Leon Julia, Morate David, Boaca Ioana Lucia

14:45–15:00: EPSC2018-943

Corrections of the PFS/MEx perturbations

Meresescu Alina G., Kowalski Matthieu, Schmidt Frederic

15:00–15:15: EPSC2018-952

Stray light in Rosetta/VIRTIS-H

Andrieu François, Erard Stéphane, Bockelée-Morvan Dominique

15:15–15:30: EPSC2018-537

Progressive metaheuristics for high-dimensional radiative transfer model inversion

Gabasova Leila, Blanchard Nicolas, Schmitt Bernard, Grundy Will and the New Horizons COMP team

15:30–15:45: EPSC2018-358

Photometry of Europa with Hapke model

Belgacem Ines, Schmidt Frédéric, Jonniaux Grégory

END OF ORAL PROGRAMME SB12/MD10

SB18/EXO7 Mathematical simulations and observations of gas-dust environment in planets, small bodies and protoplanetary disks. (co-organized)

Convener: Stavro Ivanovski
Co-conveners: Vincenzo Della Corte;
 Alessandra Rotundi; Vladimir Zakharov
Lecture Room: Venus

10:45–12:30

Chairperson: Stavro Ivanovski

10:45–11:00: EPSC2018-436

The cradle of the Sun
Pfalzner Susanne, Vincke Kirsten

11:00–11:15: EPSC2018-314

Asymptotics for spherical particle motion in a spherically expanding flow
Zakharov Vladimir, Ivanovski Stavro, Della Corte Vincenzo, Rotundi Alessandra, Fulle Marco

11:15–11:30: EPSC2018-1110

Non-spherical dust dynamics in protoplanetary disks: the effects of particle nonsphericity on the evolution timescales
Ivanovski Stavro, Turrini Diego, Capria Maria Teresa, Polychroni Danae, Rotundi Alessandra, Della Corte Vincenzo

11:30–11:45: EPSC2018-1145

Pebble isolation and planetesimal formation by Super Earth planets
Surville Clément, Mayer Lucio, Alibert Yann

11:45–12:00: EPSC2018-35

Did a stellar fly-by shape the outer solar system?
Pfalzner Susanne, Bhandare Asmita, Vincke Kirsten, Lacerda Pedro

12:00–12:15: EPSC2018-1052

Dust dynamical traceback problem for derivation the surface properties of 67P/Churyumov-Gerasimenko based on the GIADA measurements
Ivanovski Stavro, Zakharov Vladimir, Della Corte Vincenzo, Rotundi Alessandra, Fulle Marco

12:15–12:30: EPSC2018-304

Derivation of gas and dust surface fluxes on comet 67P
Zakharov Vladimir, Marzari Francesco, Ivanovski Stavro, Bertini Ivano, Della Corte Vincenzo, Rotundi Alessandra, Fulle Marco

END OF ORAL PROGRAMME SB18/EXO7

Laboratory and Field Investigations

LFI3 Cometary, asteroidal and meteoritic materials in laboratory

Convener: Gabriele Arnold
Co-conveners: Eric Quirico; Simone De Angelis; Marco Ferrari; Rosario Brunetto
Lecture Room: Mars

08:30–10:15

Chairperson: Gabriele Arnold

08:30–09:00: EPSC2018-24

Irradiation of meteorites: decoding space weathering on low albedo asteroids
 Lantz Cateline, **Brunetto Rosario**

09:00–09:15: EPSC2018-34

Nature and occurrence frequency of heating processes in CM and C2-ungrouped chondrites as revealed by insoluble organic matter
Quirico Eric, Bonal Lydie, Beck Pierre, Alexander Conel, Yabuta Hikaru, Nakamura Tomoki, Nakato Aiko, Flandinet Laurene, Montagnac Gilles, Schmitt-Kopplin Philippe, Herd Chris

09:15–09:30: EPSC2018-116

Reflectance spectra of solid organic acids and their mixtures with Fe-sulfide pyrrhotite: Insights into the surface composition of comet 67P/CG
 Meißner Xenia, **Moroz Ljuba**, Arnold Gabriele, Rademann Klaus

09:30–09:45: EPSC2018-788

Reflectance of low-albedo dusts and water ice mixtures. Application to the surface of comet 67P.
Yoldi Zurine, Pommerol Antoine, Thomas Nicolas

09:45–10:00: EPSC2018-412

Comet simulation experiments - a simplified approach
Kaufmann Erika, Hagermann Axel

10:00–10:15: EPSC2018-308

The tensile strength of ice and dust aggregates
Kreuzig Christopher, Gundlach Bastian, Bischoff Dorothea, Kothe Stephan, Blum Jürgen, Rezaei Farangis, Schmidt Kim Paul, Grzesik Benjamin, Stoll Enrico

10:15 Coffee break

10:45–12:30

Chairperson: Eric Quirico

10:45–11:00: EPSC2018-1090

Impact ionization experiments with porous cosmic dust particle analogs

Sterken Veerle, Moragas-Klostermeyer Georg, Hillier Jon, Fielding Lee, Srama Ralf

11:00–11:15: EPSC2018-385

2D and 3D FTIR hyperspectral imaging of the Paris meteorite

Dionnet Zélia, Borondics Ferenc, Aléon-Toppani Alice, Baklouti Donia, Brisset François, Djouadi Zahia, King Andrew, Sandt Christophe, Troadec David,

Brunetto Rosario

11:15–11:30: EPSC2018-683

From laser experiments to nature: How accurately can we reproduce space weathering?

Fazio Agnese, Harries Dennis, Schmidt Doreen, Pollok Kilian, Langenhorst Falko

11:30–11:45: EPSC2018-674

Design, Development and Testing of an Environmental P-T Cell for InfraRed Spectroscopy Measurements

De Angelis Simone, Ferrari Marco, De Sanctis Maria Cristina, Biondi David, Boccaccini Angelo, Formisano Michelangelo, Morbidini Alfredo, Ammannito Eleonora, Di Iorio Tatiana

11:45–12:00: EPSC2018-333

Analysis of reflectance spectra of enstatite-oldhamite mixtures for comparison with 2867 Šteins

Markus Kathrin, Arnold Gabriele, Moroz Lyuba, Henckel Daniela, Hiesinger Harald

12:00–12:15: EPSC2018-284

Space weathering in enstatite single crystals: Femtosecond laser pulse experiments simulate micrometeoroid impacts

Schmidt Doreen, Pollok Kilian, Matthäus Gabor, Nolte Stefan, Mutschke Harald, Langenhorst Falko

12:15–12:30: EPSC2018-672

Investigating reflectance properties of space weathered silicates: effect of swift heavy ion irradiation

Carli Cristian, Brunetto Rosario, Strazzulla Giovanni, Serventi Giovanna, Poulet Francois, Capaccioni Fabrizio, Langevin Yves, Gardes Emmanuel, Martinez R. Rafael, Boduch Philippe, Domaracka Alicja, Rothard Hermann

END OF ORAL PROGRAMME LFI3

Outer Planet Systems

OPS1 Outer planets systems and Pluto

Convener: Athena Coustenis

Co-conveners: Glenn Orton; Sushil K. Atreya; Leigh Fletcher; Nicolas Altobelli

Chairpersons: N. Carrasco and D. Cordier

Attendance time: Wednesday, 16:15–18:00

P1: EPSC2018-198

Experimental study of ammonia formation in Titan's ionosphere

Chatain Audrey, Carrasco Nathalie, Guaitella Olivier, Napoleoni Maryse, Vettier Ludovic, Cernogora Guy

P2: EPSC2018-1060

First Ion Insights during Titan's Ionosphere Relevant Gas Mixture EUV Irradiation

Bourgalais Jeremy, Vettier Ludovic, Tigrine Sarah, Cernogora Guy, Carrasco Nathalie

P3: EPSC2018-307

Retrieval of surface spectra in region around Titan's polar lakes

Coutelier Maélie, Cordier Daniel, Rannou Pascal

P4: EPSC2018-601

Investigating the surface distribution of N₂, CH₄ and CO ices on Triton with a volatile transport model

Bertrand Tanguy, Forget Francois, Sicardy Bruno, Lellouch Emmanuel

P5: EPSC2018-767

Spatial distribution of gaseous hydrogen cyanide on Neptune's stratosphere revealed by ALMA

Iino Takahiro, Sagawa Hideo, Tsukagoshi Takashi

P6: EPSC2018-95

Some problems in interpretation of the New Horizons observations of Pluto's atmosphere

Krasnopolsky Vladimir

P7: EPSC2018-374

Ground-based Doppler Velocimetry: wind measurements in Saturn's atmosphere with UVES/VT

Silva Miguel, Machado Pedro, Sánchez-Lavega Agustín, Hueso Ricardo, Luz David, Peralta Javier

P8: EPSC2018-635

Forced Rotational Oscillations and Tidal Evolution of Close-in Terrestrial Planets and Planetary Satellites

Ferraz-Mello Sylvio

P9: EPSC2018-1034

Seasonal variations in Titan's stratosphere polar regions addressed with a Global Climate Model

Vatant d'Ollone Jan, Lebonnois Sébastien, Burgalat Jérémie

P10: EPSC2018-42

Modelling of seasonal lake level fluctuations of Titan's seas/lakes

Tokano Tetsuya, Lorenz Ralph

P11: EPSC2018-142

Ice Giants Exploration: Dual and Twin Spacecraft Approaches

Politi Romolo, Turrini Diego, Grassi Davide, Peron Roberto, Cottini Valeria, Gorius Nicolas

END OF POSTER PROGRAMME OPS1

OPS3 Ocean worlds and Icy Moons

Convener: Alex Hayes

Co-conveners: Jean-Pierre Lebreton; Olivier Witasse; Athena Coustenis; Elizabeth Turtle; Federico Tosi

Chairperson: Olivier Witasse

Attendance time: Wednesday, 16:15–18:00

P12: EPSC2018-201

Exploring Oxidative Chemistry and Metabolic Pathways in Enceladus' Ocean

Ray Christine, Waite Hunter, Glein Chris, Huber Julie

P13: EPSC2018-795

Modelling the Rock-Water Interface on Enceladus

Hamp Rachael, Olsson-Francis Karen, Schwenzer Susanne, Ramkissoon Nisha, Pearson Victoria

P14: EPSC2018-86

Laboratory reflectance measurements of water ice/salt mixture irradiated by electrons

Cerubini Romain, Pommerol Antoine, Galli André, Yoldi Zurine, Poch Olivier, Oza Apurva, Wurz Peter, Thomas Nicolas

P15: EPSC2018-528

Onboard Detection of Thermal Anomalies for Europa Clipper

Doran Gary, **Davies Ashley**, Wagstaff Kiri, Anwar Saadat, Blaney Diana, Chien Steve, Christensen Phil, Diniega Serina

P16: EPSC2018-904

The Ganymede Laser Altimeter (GALA) for ESA's Jupiter Icy Moons Explorer (JUICE) Mission

Husmann Hauke, Lingenauber Kay, Kallenbach Reinald, Oberst Jürgen, Enya Keigo, Kobayashi Masanori, Namiki Noriyuki, Kimura Jun, Thomas Nicolas, Lara Luisa, Steinbrügge Gregor, Stark Alexander, Hüttig Christian, Lüdicke Fabian, Lötze Horst-Georg, Behnke Thomas, Althaus Christian, del Togno Simone, Wendler Belinda, Michaelis Harald

P17: EPSC2018-1066

Report on JUICE 3GM gravity experiment performance

Cappuccio Paolo, Di Benedetto Mauro, Cascioli Gael, Iess Luciano

P18: EPSC2018-1085

The effect of Ganymede's exosphere on JUICE's determination of the moon's gravity field

Hickey Anne, Durante Daniele, Iess Luciano, Plainaki Christina, Mura Alessandro, Milillo Anna

P19: EPSC2018-855

The large bright ray crater Osiris on Ganymede: its age, role as a potential time-stratigraphic marker, and target for detailed imaging by the JUICE/JANUS Camera

Wagner Roland J., Stephan Katrin, Schmedemann Nico, Werner Stephanie C., Hoffmann Harald, Roatsch Thomas, Kersten Elke, Jaumann Ralf, Palumbo Pasquale

P20: EPSC2018-341

Spectral properties of fresh impact craters in the Saturnian and Jovian system

Stephan Katrin, Jaumann Ralf, Dalle Ore Cristina, Filacchione Gianrico, Ciarniello Mauro, Cruikshank Dale

P21: EPSC2018-914

Modeling the Interior Evolution of Water-Rich Bodies: From Dust Aggregates to Ocean Worlds

Neumann Wladimir

END OF POSTER PROGRAMME OPS3**OPS5/TP11 Aerosols and clouds in planetary atmospheres (co-organized)**

Convener: Nathalie Carrasco

Co-conveners: Anni Määttänen; P. Lavvas

Chairperson: Nathalie Carrasco

Attendance time: Wednesday, 16:15–18:00

P24: EPSC2018-1210

A Vapor Pressure Database for Modeling Planetary Atmospheres

Barth Erika L.

P25: EPSC2018-745

Titan's polarization phase curves with Cassini/ISS

Ilic Nikoleta, Antonio García Muñoz, Benoît Seignovert, Robert A. West, Benjamin Knowles, Panayotis Lavvas

P26: EPSC2018-1232

Calculation of high-level ab initio rate coefficients for key neutral-neutral reactions in low-temperature Titan conditions

Barua Shiblee R., Kao Der-you, Romani Paul N., Domagal-goldman Shawn D.

END OF POSTER PROGRAMME OPS5/TP11**OPS6/TP17/EXO8 Planetary aeronomy: Near and afar (co-organized)**

Convener: Tommi Koskinen

Co-conveners: Antonio Garcia Munoz; P. Lavvas

Chairperson: Antonio Garcia Munoz

Attendance time: Wednesday, 16:15–18:00

P27: EPSC2018-389

Impact of Crustal Magnetic Fields on the Thermal Structure of the Martian Upper Atmosphere

Cui Jun, Yelle Roger, Stone Shane, Koskinen Tommi, Wu Xiaoshu, Zhao Lingling

P28: EPSC2018-769

Mass-loss rate constraints on the observed distribution of exoplanets

Cubillos Patricio, Fossati Luca, Erkaev Nikolai, Johnstone Colin, Lammer Helmut, Lendl Monika, Odert Petra, Kislyakova Kristina, Juvan Ines

P29: EPSC2018-424

The near-UV transmission spectrum of the prototypical hot Jupiter HD209458b

Fossati Luca, Cubillos Patricio, Koskinen Tommi, France Kevin, Lendl Monika, Aickara Gopinathan Sreejith

P30: EPSC2018-419

CUTE: A Small NUV Satellite Mission to Study Exoplanet Atmospheres

Fossati Luca, France Kevin, Flaming Brian, Aickara Gopinathan Sreejith, Egan Arika, Desert Jean-Michel, Koskinen Tommi, Petit Pascal, Vidotto Aline

P31: EPSC2018-573

An empirical model of Saturn's thermosphere based on Cassini/UVIS occultations

Koskinen Tommi, Strobel Darrell, Brown Zarah

END OF POSTER PROGRAMME OPS6/TP17/EXO8**Modelling and Database****MD3/TP13/OPS13 Multi-disciplinary approaches to investigate the shape, rotation, tides, interior structure and evolution of planets and moons (co-organized)**

Convener: Sebastiano Padovan

Co-conveners: Alexander Stark; Britney Schmidt; Krista Soderlund; Thomas Ruedas; Nicola Tosi; Lena Noack; Jürgen Oberst; Rose-Marie Baland; Dominic Dirkx; Gabriele Cremonese; Antoine Rozel; Ruth Ziehe

Chairperson: Lena Noack

Attendance time: Wednesday, 16:15–18:00

P32: EPSC2018-1281

Thermochemical and magmatic evolution of a heterogeneous lunar mantle Brian

Doherty Brian, Plesa Ana-Catalina, Schwinger Sabrina, Breuer Doris

P33: EPSC2018-25

Radio Emissions from Electrical Activity in Martian Dust Storms

Majid Walid

P34: EPSC2018-140

The use of multifractal method for lunar topography analysis

Andreev Aleksey, Nefedyev Yura, Demina Natalya, Petrova Natalia, Zagidullin Arthur, Demin Sergey

P35: EPSC2018-143

Analysis of moonquakes using space missions data and method of determining the long-periodic geodynamic components

Nefediev Yuri, Andreev Alexey, Demina Natalya, Mubarakshina Regina, Demin Sergey

P36: EPSC2018-173

Estimating coupled translational-rotational dynamics of solar system bodies

Dirkx Dominic, Mooij Erwin, Root Bart, Cowan Kevin

P37: EPSC2018-229

Impact of improved orbit and rotational models on the locations of the Mars Orbiter Laser Altimeter (MOLA) footprints

Xiao Haifeng, Stark Alexander, Annibali Serena, Oberst Jürgen

P38: EPSC2018-340

Bulk density of the lunar crust in high resolution

Wahl Daniel, Wieczorek Mark, Oberst Jürgen

P39: EPSC2018-427

Benchmark for tidal deformation in planetary shells of variable thickness

Behoukova Marie, Beuthe Mikael, Soucek Ondrej

P40: EPSC2018-507

Barkin's lunar physical libration analytical theory and the possible detection of a free core nutation of the Moon

Petrova Natalia, Barkin Michel, Nefediev Yuri, Zagidullin Arhtur, Andreev Alexey

P41: EPSC2018-691

The coupling between the polar motion and the spin precession of Titan

Baland Rose-Marie, Coyette Alexis, Van Hoolst Tim

P42: EPSC2018-785

Magma ocean lifetime and outgassing of the secondary atmosphere in a terrestrial planet.

Nikolaou Athanasia, Katyal Nisha, Tosi Nicola, Godolt Mereike, Grenfell John Lee, Rauer Heike

P43: EPSC2018-851

Synthetic geophysical observables from martian mantle convection models, with application to InSight

Ruedas Thomas, Breuer Doris

P44: EPSC2018-931

Measurement of Lunar rotation with Lunar Orbiter Laser Altimeter data

Stark Alexander, Annibali Serena, Oberst Jürgen, Hussmann Hauke

P45: EPSC2018-992

A short history of Mars True Polar Wander

Rosenblatt Pascal

P46: EPSC2018-845

Uncertainty on the core radius of Mars from nutation estimation

Yseboodt Marie, Rivoldini Attilio, Le Maistre Sebastien, Dehant Veronique

P47: EPSC2018-1063

Numerical simulations of multiple and single channel rivers on Earth and Titan - further results

Misiura Katarzyna, Czechowski Leszek

P48: EPSC2018-1238

Mars nutation estimates from radio-tracking of landed missions prior InSight and ExoMars 2020

Le Maistre Sébastien, Dehant Véronique, Marty Jean-Charles

P49: EPSC2018-1022

The internal structure of Mars inferred from nutation

Rivoldini Attilio, Van Hoolst Tim, Beuthe Mikael, Deproost Marie-Hélène, Baland Rose-Marie, Yseboodt Marie, Le Maistre Sébastien, Péters Marie-Julie, Dehant Véronique

P50: EPSC2018-452

Crustal Magnetic Field Modeling From CHAMP and SWARM Satellite Magnetometer Observations

Boualem Saich, Mohamed Cherif Berguig, Mohamed Hamoudi

END OF POSTER PROGRAMME MD3/TP13/OPS13

Missions, Techniques and Industry

MTI5 Future Planetary missions and instrumentation (L class, M class, New frontiers, Discovery, etc.)

Convener: Brook Lakew

Co-conveners: Olivier Mousis; Kim Reh; Anil Bhardwaj; Frank Jansen

Chairpersons: Kim Reh, Olivier Mousis, Anil Bardwaj, Frank Jansen

Attendance time: Wednesday, 16:15–18:00

P51: EPSC2018-55

Advanced pointing imaging camera (APIC) concept

Park Ryan, Riedel Ed

P52: EPSC2018-65

SPRITE (Saturn PRobe Interior and aTmosphere Explorer): A Saturn Entry Probe Mission Concept

Atkinson David H., Simon Amy, Banfield Don, Atreya Sushil, Blacksberg Jordana, Brinckerhoff Will, Colaprete Anthony, Coustenis Athena, Fletcher Leigh, Guillot Tristan, Hofstadter Mark, Lunine Jonathan, Mahaffy Paul, Marley Mark, Mousis Olivier, Spilker Thomas, Trainer Melissa, Webster Chris

P53: EPSC2018-70

Mars Energetic Particles Analyzer onboard the Orbiter of China's First Mars Exploration

Fu Qiang, Zhang Hongbo, Wang Yi, Zhang Zhoubin, Ren Xin

P54: EPSC2018-73

The Hera Saturn Entry Probe Mission Concept
Atkinson David H., Mousis Olivier, Spilker Thomas R., Venkatapathy Ethiraj, Coustenis Athena, Hofstadter Mark, Lebreton Jean-Pierre, Reh Kim, Simon Amy A.

P55: EPSC2018-74

A Joint NASA/ESA Mission Concept for In Situ Probe Explorations of the Ice Giants
Atkinson David H., Mousis Olivier, Spilker Thomas R., Coustenis Athena, Hofstadter Mark, Lebreton Jean-Pierre, Reh Kim, Simon Amy A.

P56: EPSC2018-206

MetNet Mission for Mars - Current Status and Future Prospects
 Harri Ari-Matti, Aleksashkin Sergey, Arruego Ignacio, Schmidt Walter, Genzer Maria, Vazquez Luis,
Haukka Harri

P57: EPSC2018-279

Analysis and Design for Parachute Deceleration and Landing Process on Mars
Bao Jinjin

P58: EPSC2018-293

Loss of potassium during the Moons history
Lammer Helmut, Vorburger Audrey, Scherf Manuel, Benedikt Markus, Wurz Peter, Nakamura Rumi, Dandouras Iannis, Yamauchi Masatoshi, Millilo Anna, Galli André

P59: EPSC2018-326

Research on the asteroid landing and adhesion mechanism
Feng Rui

P60: EPSC2018-338

Proposed mission to Mars and his Trojan Asteroid Family - An Update Report
Wickhusen Kai, Oberst Jürgen, Willner Konrad

P61: EPSC2018-453

Lunar Active Experiment (LAX) for Lunar Water Investigations
Futaana Yoshifumi, Barabash Stas, Holmström Mats, S. Wieser Gabriella, Wang Xiao-Dong, Wieser Martin, Yamauchi Masatoshi, Persson Moa, Pontoni Angele, Wittmann Philipp

P62: EPSC2018-510

PRIDE: Near-field VLBI observations for Planetary Probes
 Pallichadath Vidhya, Bahamón T. M. Bocanegra-, Cimò Giuseppe, **Dirkx Dominic**, Duev Dmitry. A, Gurvits Leonid.I, Lainey Valery, Calvés G. Molera, Vermeersen L.L.A (Bert)

P63: EPSC2018-578

The Science Process for Selecting the Landing Site for the 2020 Mars Rover
Grant John, Golombek Matthew, Wilson Sharon, Farley Kenneth, Williford Ken, Chen Al

P64: EPSC2018-809

Mapping Trojan Asteroids in the thermal infrared with TROTIS
Helbert Jörn, Maturilli Alessandro, D'Amore Mario, Grott Matthias, Knollenberg Joerg, Arnold Gabriele, Varatharajan Indhu, Palomba Ernesto, Okada Tatsuaki, Vernazza Pierre, Rivkin Andrew, Müller Thomas, Börner Anko, Walter Ingo

P65: EPSC2018-945

Observing Solar System Bodies with Twinkle
Edwards Billy, Savini Giorgio, Tinetti Giovanna, Bowles Neil, Lindsay Sean

P66: EPSC2018-1006

Scientific payload of the Emirates Mars Mission: Emirates mars ultraviolet spectrometer (EMUS) overview
Lootah Fatma, Almatroushi Hessa, Holsclaw Greg, Deighan Justin, Chaffin Michael, Lillis Robert, Fillingim Matthew, England Scott, AlMheiri Suhail, Reed Heather

P67: EPSC2018-1007

Scientific Payload of the Emirates Mars Mission: Emirates Mars Infrared Spectrometer (EMIRS)
Badri Khalid, AlTunaiji Eman, Edwards Christopher, Smith Michael, AlDhafri Suhail, Reed Heather

P68: EPSC2018-1032

Scientific payload of the Emirates Mars Mission: Emirates Exploration Imager (EXI)
AlShamsi Mariam, Wolff Michael, Khoory Mohammed, Drake Ginger, Jones Andrew, AlMheiri Suhail, Reed Heather

P69: EPSC2018-1033

Impedance measurements for RIME dipole aboard JUICE
Hahnel Ronny, Plettemeier Dirk, Birmuske Reinhard, Hauser Adrian, Bruzzone Lorenzo

P70: EPSC2018-1065

The MASTER imaging spectrometer for the JAXA/Okeanos mission
Palomba Ernesto, Longobardo Andrea, Dirri Fabrizio, Piccioni Giuseppe, Capaccioni Fabrizio, Roush Ted, Cloutis Edward, Okada Tatsuaki, Iwata Takahiro, Kitazato Kohei, Nakamura Ryosuke, Zambelli Massimo, Saggin Bortolino, Helbert Joern, Schmitz Nicole

P71: EPSC2018-1131

Ultrasounds for regolith and dust particles manipulation
Gonzalez Iciar

P72: EPSC2018-1151

Research ideas in solar-system, lunar, and earth-sciences with Deep Space Gateway
Nakamura Rumi, Crawford Ian, Carpenter James

P73: EPSC2018-1169

Design of the calibration bench for the characterization of MAJIS/JUICE VIS-NIR detectors
Cisneros González Miriam Estefanía, Bolsée David, Pereira Nuno, Vandaele Ann Carine, Karatekin Özgür, Giordanengo Boris, Gissot Samuel, Langevin Yves, Poulet François, Dumesnil Cydalise, Ruiz de Galarreta Fanjul Claudia, Lecomte Benoît, Arondel Antoine, Carter John, Piccioni Giuseppe, Filacchione Gianrico

P74: EPSC2018-1156

Cuve - Cubesat UV Experiment

Cottini Valeria, Aslam Shahid, Gorius Nicolas, Hewagama Tilak, Ignatiev Nikolay, Piccioni Giuseppe, D'Aversa Emiliano**END OF POSTER PROGRAMME MT15****MT16 Deep-Space SmallSats mission concepts****Convener:** Brook Lakew**Co-conveners:** Sabrina Feldman; Andris Slavinskis**Chairpersons:** Sabrina Feldman, Andris Slavinskis**Attendance time:** Wednesday, 16:15–18:00**P75: EPSC2018-71**

SNAP - the Small Next-generation Atmospheric Probe Concept for Future Ice Giant Missions

Atkinson David H., Sayanagi Kunio M., Dillman Robert A., Simon Amy A., Wong Michael H., Spilker Thomas R., Saikia Sarag J., Li Jing, Hope Drew J.**P76: EPSC2018-764**

PRIME - A concept for passive radar investigation of Jupiter's moon Io

Steinbrügge Gregor, Fanara Lida, Haack David, Hamm Maximilian, Heffels Alexandra, **Maurice Maxime**, Nikolau Athanasia, Rosas Ortiz Yaquelin Miriam, Varatharajan Indhu, Schroeder Dustin, Zikidis Konstantinos, Hussmann Hauke, Spohn Tilmann**P77: EPSC2018-1190**

Nanospacecraft design and mission overview for statistical small asteroids prospecting

Iakubivskiy Iaroslav, Mačiulis Laurynas, Janhunen Pekka, Slavinskis Andris, Pajusalu Mihkel, Noorma Mart**END OF POSTER PROGRAMME MT16****Exoplanets and Origins****EXO4/TP14/OPS9/MD6 Matter Under Planetary Interior Conditions (co-organized)****Convener:** Frank Sohl**Co-conveners:** Martin French; Zuzana Konopkova; Sebastiano Padovan**Chairperson:** F. Sohl**Attendance time:** Wednesday, 16:15–18:00**P78: EPSC2018-857**

Phase behaviour of methane hydrate under conditions relevant to Titan's interior

Sclater Gillian**END OF POSTER PROGRAMME EXO4/TP14/OPS9/MD6****EXO5 Plasma and magnetospheric environments of exoplanets: Modelling and probing****Convener:** Maxim Khodachenko**Co-conveners:** Ildar F. Shaikhislamov; Navin Dwivedi; Igor Alekseev**Chairperson:** Shaikhislamov I.F.**Attendance time:** Wednesday, 16:15–18:00**P79: EPSC2018-281**In-transit Ly α absorption by HD 209458b under different regimes of the planetary and stellar winds interaction**Khodachenko Maxim**, Shaikhislamov Ildar, Dwivedi Navin, Lammer Helmut, Kislyakova Kristina, Fossati Luca, Johnstone Colin, Arkhypov Oleksyi, Berezutsky Artem, Miroshnichenko Ilya, Posukh Vitaly**P80: EPSC2018-303**

Multi-fluid modeling of upper atmosphere mass loss and absorption line for WASP-12b

Dwivedi Navin, Shaikhislamov Ildar, Khodachenko Maxim, Fossati Luca, Lammer Helmut, Kislyakova Kristina, Johnstone Collin, Güdel Manuel, Sasunov Yuri**P81: EPSC2018-158**

Modeling of the UV absorption by OI and CII in exosphere of the hot jupiter HD 209458b

Miroshnichenko Ilya B., Shaikhislamov Ildar F., Khodachenko Maxim, Lammer Helmut, Berezutsky Artem G.**P82: EPSC2018-126**

Stellar wind interaction with the expanding atmosphere of Gliese 436b

Berezutskiy Artem, Shaikhislamov Ildar, Khodachenko Maxim, Miroshnichenko Ilya**P83: EPSC2018-802**On the transit Ly α observations of terrestrial planets in the habitable zones of M dwarfs**Kislyakova Kristina**, Lammer Helmut, Odert Petra, Erkaev Nikolai, Holmström Mats**P84: EPSC2018-1078**

Sub-Alfvenic magnetosphere of a Hot Jupiter

Lavrukhin Alexander, Parunakian David, Alexeev Igor**P85: EPSC2018-19**

On localization of exoplanets radiation belts

Perov Nikolai, Abduragimov Anar**P86: EPSC2018-641**

Influence of Star-Planet Magnetic Torques on Orbital Secular Evolution

Ahuir Jérémy, Strugarek Antoine, Benbakoura Mansour, Brun Allan-Sacha, Mathis Stéphane, Bolmont Emeline, Le Poncin-Lafitte Christophe, Réville Victor**END OF POSTER PROGRAMME EXO5**

Small Bodies (comets, KBOs, rings, asteroids, meteorites, dust)

SB2 Asteroid shapes from near and far

Convener: Anna Marciniak

Co-conveners: Thomas Müller; Josef Durech

Chairperson: Anna Marciniak

Attendance time: Wednesday, 16:15–18:00

P88: EPSC2018-144

New insights into Pallas' formation and collisional history from VLT/SPHERE and SOFIA/FORCAST
Marsset Michael, **Vernazza Pierre** and the HARISSA team

P89: EPSC2018-1107

Small Bodies Near and Far (SBNF): Challenges in the Physical and Thermal Characterization of NEOs, MBAs and TNOs
Müller Thomas, Marciniak Anna, Kiss Csaba, Duffard Rene and the SBNF team

P90: EPSC2018-747

Determination of spin axes and shapes of NEAs from one apparition
Kwiatkowski Tomasz

P91: EPSC2018-832

Physical parameters of near-Earth asteroid 2017 VR12 from radar and optical photometric observations
Bondarenko Yuri, Marshalov Dmitrii, Medvedev Yuri, Kornienko Gennady, Kochergin Anton, Zheltobryukhov Maxim, Benner Lance

END OF POSTER PROGRAMME SB2

SB12/MD10 Imaging, photometry and spectroscopy of small bodies and planetary surfaces: theory and methods (co-organized)

Convener: Stéphane Erard

Co-convener: Frédéric Schmidt

Attendance time: Wednesday, 16:15–18:00

P92: EPSC2018-161

Photometric efficiency of a set of geometry
Schmidt Frédéric, Bourguignon Sébastien

P93: EPSC2018-378

Physical relevance of Independent Component Analysis of planetary radiance
Erard Stéphane

P94: EPSC2018-866

67P/C-G surface temperatures by linear spectral unmixing of Rosetta/VIRTIS-M - Method and first results -
Combe Jean-Philippe, McCord Thomas, Capaccioni Fabrizio, Filacchione Gianrico, Tosi Federico, Raponi Andrea, Ciarniello Mauro, Kappel David, Rousseau Baptiste

P95: EPSC2018-974

Analysis of spectral indices for fast mineralogical interpretation of Bennu reflectance spectra
Praet Alice, Clark Beth Ellen, Barucci Maria Antonietta

P96: EPSC2018-978

Radiometric Calibration of the Rosetta Navigation Camera
Geiger Bernhard, Andrés Rafael, Statella Thiago, Barthelemy Maud

P97: EPSC2018-1207

Low resolution optical spectra of Jupiter family comets 41P/ and 45P/
Venkataramani Kumar, Ganesh Shashikiran

END OF POSTER PROGRAMME SB12/MD10

SB18/EXO7 Mathematical simulations and observations of gas-dust environment in planets, small bodies and protoplanetary disks. (co-organized)

Convener: Stavro Ivanovski

Co-conveners: Vincenzo Della Corte; Alessandra Rotundi; Vladimir Zakharov

Chairperson: Vladimir Zakharov

Attendance time: Wednesday, 16:15–18:00

P98: EPSC2018-1064

Study on Statistical Properties of Asteroid Orbits Approaching Earth
Borukha Maria, Veselova Angelina

P99: EPSC2018-1067

Modelling the Distribution of Comets in Extrasolar Systems
Loibnegger Birgit, Haghighipour Nader

END OF POSTER PROGRAMME SB18/EXO7

Terrestrial Planets

TP4 ExoMars - First results from the TGO and plans for the 2020 Rover and Surface Platform

Convener: Håkan Svedhem

Co-conveners: Maurizio Pajola; Manish R. Patel; Daniel Rodionov; Jorge Vago

Chairperson: H. Svedhem

Attendance time: Wednesday, 16:15–18:00

P119: EPSC2018-145

CaSSIS - Targeting, Operations, and Data Reduction
Thomas Nicolas, Cremonese Gabriele, Almeida Miguel, Backer Jean, Becerra Patricio, Borriani Gaetano, Byrne Shane, Gruber Mario, Gubler Pascal, Heyd Rod and the CaSSIS Operations Team

P120: EPSC2018-171

Spectral clustering applied on the ExoMars-CaSSIS simulated imagery dataset

Pajola Maurizio, Tornabene Livio, Seelos Frank, Marzo Giuseppe, Lucchetti Alice, Cremonese Gabriele, Pommerol Antoine, Becerra Patricio, Thomas Nicholas

P121: EPSC2018-962

Evaluating the performance of CaSSIS elevation data for geomorphological and geological analyses

Conway Susan, Pozzobon Riccardo, Lucchetti Alice, Massironi Matteo, Simioni Emanuele, Re Cristina, Mudric Teo, Pajola Maurizio, Cremonese Gabriele, Thomas Nick

P122: EPSC2018-380

3DPD application to the first CaSSIS DTMs

Simioni Emanuele, Re Cristina, Mudrich Teo, Pajola Maurizio, Lucchetti Alice, Pozzobon Riccardo, cambianica Pamela, Cremonese Gabriele, Pommerol Antoine, Thomas Nicolas

P124: EPSC2018-661

The NOMAD Spectrometer Suite on ExoMars Trace Gas Orbiter: First Results from the Commissioning and Nominal Science Phases

Thomas Ian, Vandaele Ann Carine, Robert Séverine, Trompet Loïc, Aoki Shohei, Depiesse Cédric, Willame Yannick, Wilquet Valérie, Piccialli Arianna, Ristic Bojan, Daerden Frank, Erwin Justin, Berkenbosch Sophie, Clairquin Roland, Beeckman Bram, Neefs Eddy, Mason Jon, Patel Manish, Bellucci Giancarlo, Lopez Moreno José Juan and the NOMAD Team

P125: EPSC2018-654

The NOMAD Spectrometer Suite on ExoMars Trace Gas Orbiter: Data Products, Format and Availability in the ESA Planetary Science Archive

Thomas Ian, Vandaele Ann Carine, Daerden Frank, Depiesse Cédric, Willame Yannick, Trompet Loïc, Berkenbosch Sophie, Clairquin Roland, Beeckman Bram, Ristic Bojan, Queirolo Claudio, Neefs Eddy, Mason Jon, Sellers Graham, Leese Mark, HathiBrijen, Patel Manish, Bellucci Giancarlo, Lopez Moreno José Juan and the NOMAD Team

P126: EPSC2018-699

Calibration of the NOMAD-UVIS channel

Depiesse Cédric, Willame Yannick, Vandaele Ann Carine, Thomas Ian, Bolsée David, Neefs Eddy, Berkenbosch Sophie, Clairquin Roland, Patel Manish R., Mason Jon, Leese Mark, Hathi Brijen, Wolff Mike J., Clancy R. Todd, Altieri Francesca, Bellucci Giancarlo, Lopez-Moreno Jose-Juan, Thibert Tanguy

P127: EPSC2018-235

Atmospheric model support for NOMAD on ExoMars/TGO

Daerden Frank, Neary Lori, Viscardy Sébastien, Erwin Justin, Lewis Stephen, Holmes James, Streeter Paul, González-Galindo Francisco, Kaminski Jacek, Lefèvre Franck, Vandaele Ann Carine, Lopez-Moreno José Juan, Bellucci Giancarlo, Patel Manish, Thomas Ian, Ristic Bojan and the NOMAD team

P128: EPSC2018-722

Definition of a surface index based on previous datasets, to be used on NOMAD/EMTGO spectra

Robert Séverine, Karatekin Ozgur, Gloesener Elodie, Ruel Louis, Carrozzo Filippo Giacomo, Altieri Francesca, Vandaele Ann Carine, Daerden Frank, Thomas Ian R., Ristic Bojan, Bellucci Giancarlo, Patel Manish R., Lopez-Moreno José Juan and the NOMAD team

P129: EPSC2018-731

Preliminary results of dust and ice clouds retrieval using NOMAD/UVIS nadir measurements

Willame Yannick, Vandaele Ann Carine, Depiesse Cédric, Thomas Ian R., Aoki Shohei, Piccialli Arianna, Daerden Frank, Ristic Bojan, Hewson Will, Patel Manish R., Mason Jon, Wolff Micheal J., Oliva Fabrizio, D'Aversa Emiliano, Altieri Francesca, Bellucci Giancarlo, Lopez-Moreno José Juan

P130: EPSC2018-565

Improved near-infrared high-resolution solar spectrum from ACS NIR onboard TGO

Gizatullin Karim, Trokhimovskiy Alexander, Fedorova Anna, Korablev Oleg, Montmessin Franck, Betsis Daria, Bertaux Jean-Loup, Spite Monique

P131: EPSC2018-786

Modeling of HDO in the Martian atmosphere

Rossi Loïc, Montmessin Franck, Forget François, Millour Ehouarn, Olsen Kevin, Vals Margaux, Fedorova Anna, Trokhimovskiy Alexander, Korablev Oleg

P132: EPSC2018-796

Preliminary results on sensitive search of minor species using the first data of TGO/NOMAD

Aoki Shohei, Vandaele Ann Carine, Robert Séverine, Thomas Ian R., Trompet Loïc, Erwin Justin T., Daerden Frank, Neary Lori, Viscardy Sébastien, Ristic Bojan, Villanueva Geronimo L., Liuzzi Giuliano, Mumma Michael J., Hill Brittany, FunkeBernd, Lopez Valverde Miguel A., Giuranna Marco, Patel Manish R., Bellucci Giancarlo, Lopez-Moreno Jose Juan and the NOMAD team

P133: EPSC2018-854

Preliminary retrievals of CO₂ column densities using the first data of TGO/NOMAD

Piccialli Arianna, Vandaele Ann Carine, Thomas Ian R., Robert Severine, Aoki Shohei, Trompet Loïc, Erwin Justin T., Daerden Frank, Neary Lori, Viscardy Sébastien, Ristic Bojan, Karatekin Ozgur, Smith Michael D., Sindoni Giuseppe, Oliva Fabrizio, Bauduin Sophie, Wolkenberg Paulina, Lopez Moreno José-Juan, Bellucci Giancarlo, Patel Manish R. and the NOMAD Team

P134: EPSC2018-907

Preliminary assimilation of observations from ACS/TIRVIM on board ExoMars TGO into the LMD Mars GCM

Young Roland, Forget François, Guerlet Sandrine, Millour Ehouarn, Navarro Thomas, Ignatiev Nikolay, Grigoriev Alexey, Shakun Alexey, Trokhimovskiy Alexander, Montmessin Franck, Korablev Oleg

P135: EPSC2018-916

Spectroscopy and trace gas retrievals for the ExoMars Trace Gas Orbiter (TGO) Atmospheric Chemistry Suite mid-infrared (ACS MIR) solar occultation spectrometer using the JPL Gas Fitting software (GFIT)

Olsen Kevin, Montmessin Franck, Boone Chris, Toon Geoff, Fedorova Anna, Trokhimovskiy Alexander, Grigoriev Alexey, Patrakeev Andrey, Korablev Oleg and the ExoMars TGO Science Working Team

P136: EPSC2018-861

Martian aerosol-free reflectance spectra as input to better constrain atmospheric dust content in the NOMAD/TGO nadir observations

Altieri Francesca, Wilquet Valerie, Oliva Fabrizio, D'Aversa Emiliano, Carrozzo F. Giacomo, Bellucci Giancarlo, Patel Manish R., Thomas Ian R., Willame Yannick, Aoiki Shohei, Daerden Frank, Depiesse Cedric, Hewson Will, Karaketin Ozgur, Lanciano Orietta, Lopez-Moreno José Juan, Piccialli Arianna, Robert Séverine, Schmidt Frédéric, Vandaele Ann Carine and the NOMAD Team

P137: EPSC2018-647

Modeling of aerosols from TIRVIM solar occultations onboard ExoMars/TGO

Luginin Mikhail, Ignatiev Nikolay, Fedorova Anna, Grigoriev Alexey, Shakun Alexey, Trokhimovsky Aleksander, Montmessin Franck, Korablev Oleg

P138: EPSC2018-1018

Development of a modified Tau-REx retrieval framework for processing the ExoMars TGO NOMAD data

Cann George, Muller Jan-Peter, Walton Dave, Waldmann Ingo

P139: EPSC2018-576

Solar wind modulation of galactic cosmic rays observed on board of ExoMars TGO

Koleva Rositza, Semkova Jordanka, Benghin Viktor, Dachev Tsvetan, Matviichuk Yuri, Tomov Borislav, Krastev Krasimir, Maltchev Stefan, Dimitrov Plamen, Mitrofanov Igor, Malahov Alexey, Golovin Dmitry, Mokrousov Maxim, Yermolaev Yuriy, Drobyshev Sergey

P140: EPSC2018-1192

ExoMars 2016 Schiaparelli at Mars: AMELIA results from the 'terrific' six minutes before crashing

Ferri Francesca, Karatekin Ozgur, Aboudan Alessio, Colombatti Giacomo, Van Hove Bart, Bettanini Carlo, Debei Stefano, Lewis Stephen, Forget Francois

P141: EPSC2018-1211

Reconstruction of the Mars atmosphere using the flight data of ExoMars Schiaparelli's instrumented heat shield and radio communications

Karatekin Özgür, Van Hove Bart, Ferri Francesca, Aboudan Alessio, Colombatti Giacomo

P142: EPSC2018-1023

Processing and Calibration for the WISDOM Radar Applied to Field Measurements

Plettemeier Dirk, Statz Christoph, Lu Yun, Benedix Wolf-Stefan, Ciarletti Valérie, Le Gall Alice, Corbel Charlotte, Hervé Yann

P143: EPSC2018-1116

Applications of the ExoMars 2020 PanCam Wide Angle Camera Simulator: Optimising Image Acquisition and Post-Processing

Stabbins Roger, Griffiths Andrew, Gunn Matthew, Coates Andrew, Science Team the PanCam

P144: EPSC2018-859

Spectral characterization of the Ma_MISS instrument on board the ExoMars 2020 rover

Ferrari Marco, De Angelis Simone, De Sanctis Maria Cristina, Altieri Francesca, Ammannito Eleonora, Tinivelli Paola, Biondi David, Mugnolo Raffaele, Pirrotta Simone

P145: EPSC2018-1132

RLS FM performance characterization and calibration campaign with the Instrument Data Analysis Tool (IDAT)

Lopez-Reyes Guillermo, Saiz Jesus, Guzman Alvaro, Moral Andoni, Perez Carlos, Rull Fernando, Manrique Jose Antonio, Medina Jesus

P146: EPSC2018-837

Spectrometer ISEM for ExoMars-2020 space mission: from qualification prototype to flight model

Dobrolenskiy Yuriy, Korablev Oleg, Fedorova Anna, Mantsevich Sergey, Kalinnikov Yuriy, Vyazovetskiy Nikita, Ivanov Yuriy, Syniavskiy Ivan, Titov Andrey, Stepanov Alexander, Sapgir Alexander, Evdokimova Nadezhda, Kuzmin Ruslan

P147: EPSC2018-31

LaRa (Lander Radioscience) on the ExoMars 2020 Surface Platform.

Dehant Véronique, Le Maistre Sébastien, Baland Rose-Marie, Karatekin Ozgur, Mitrovic Michel, Peters Marie-Julie, Rivoldini Attilio, Van Hoolst Tim, Van Hove Bart, Yseboodt Marie

P148: EPSC2018-1159

The characterization of airborne dust close to the surface of Mars: the Dust Complex/MicroMED sensor on board the ExoMars 2020 Surface Platform

Esposito Francesca, Molfese Cesare, Cozzolino Fabio, Cortecchia Fausto, Mongelluzzo Giuseppe, Saggin Bortolino, Scaccabarozzi Diego, Arruego Rodriguez Ignacio, Martin Ortega Rico Alberto, Andrés Santiuste Nuria, Ramón de Mingo Josè, Schipani Pietro, Silvestro Simone, Ionut Popa Ciprian, Dall'Orta Massimo, Zakharov Alexander, Dolnikov Gennady, Lyash Andrew, Kuznetsov Ilya, Mugnolo Raffaele and the MicroMED team

P149: EPSC2018-725

Status of METEO-P pressure and METEO-H humidity device development for the ExoMars 2020 mission

Nikkanen Timo, **Genzer Maria**, Hieta Maria, Meskanen Matias, Harri Ari-Matti, Polkko Jouni

P150: EPSC2018-743

Electromagnetic wave analyzer module for the ExoMars 2020 surface platform

Santolik Ondrej, Kolmasova Ivana, Skalsky Aleksander

P151: EPSC2018-686

"Lucky Strike": A terrestrial analog for hydrothermal fields on ancient Mars with implications for the ExoMars rover

Ruesch Ottaviano, Vago Jorge, L., Barreyre Thibaut

P152: EPSC2018-1138

Low Temperature Phase Transition in Natural Gypsum: Relevance in Exomars Mission

Casado Ana Isabel, Rodríguez Montoro Óscar, Taravillo Mercedes, Baonza Valentín G., Lobato Alvaro

P153: EPSC2018-353

Meteorites as Environmental Witness Plates for Mars Sample Return Consideration

Tait Alastair, Schroeder Christian, Ashley James, Velbel Micheal, Boston Penelope, Carrier Brandi, Cohen Barbara, Bland Phill

P154: EPSC2018-971

Terrestrial validation of geological analyses in PRO3D using an emulator for the ExoMars 2020 PanCam

Barnes Robert, Gunn Matt, Gupta Sanjeev, Paar Gerhard, Traxler Christoph, Bauer Arnold, Nauschnegg Bernhard, Ortner Thomas, Perucha-Caballo Maria Pilar

P155: EPSC2018-988

Formation of titanium oxide (TiO₂) polymorphs in an emerged submarine volcano environment: Implications for Mars

Madariaga Juan Manuel, Ruiz-Galende Patricia, Torre-Fernandez Imanol, Aramendia Julene, Gomez-Nubla Leticia, Castro Kepa, Arana Gorka

P156: EPSC2018-147

Mars Interactive Exploration based on Reconstruction and Visual Analysis: The MINERVA Concept

Paar Gerhard, Caballo Piluca, Traxler Christoph, Piringier Harald, Triebnig Gerhard, Schindler Fabian

END OF POSTER PROGRAMME TP4

TP8/OPS11/MD5/SB23 Volcanism and tectonism across the Solar system (co-organized)

Convener: Petr Broz

Co-conveners: Paul Byrne; Ernst Hauber; Vera Assis Fernandes; Nicolle Zellner; Clive Neal

Chairperson: Vera Assis Fernandes

Attendance time: Wednesday, 16:15–18:00

P164: EPSC2018-106

Evolution of the lunar basaltic magmatism: Basins and Marea covers

Kochemasov Gennady G.

P165: EPSC2018-243

Preliminary petrographic characterization, 40Ar/39Ar and CRE ages of Apollo 15 regolith basaltic fragments

Assis Fernandes Vera, Czaja Peter, Fawcett Lydia

P166: EPSC2018-384

The Idunn Mons-Olapa Chasma system as the candidate site for studying ongoing volcanotectonic activity on Venus

D'Incecco Piero, López Ivan, Komjathy Attila, Cutts James A., Krishnamoorthy Siddharth

P167: EPSC2018-48

Asthenospheres of the rocky planets and the Moon: a reason of their origin

Kochemasov Gennady G.

P168: EPSC2018-852

Spectral properties of pyroclastic deposits on Mercury and the Moon

Besse Sebastien, Doressoundiram Alain, Barraud Oceane, Cornet Thomas, Munoz Claudio

P169: EPSC2018-377

Geological Characteristics of Von Kármán Crater, Northwestern South Pole-Aitken Basin: Chang'E-4 Landing Site Region

Huang Jun

P170: EPSC2018-1161

Extensive Volcanic Resurfacing within the South Pole - Aitken Basin

Moriarty Daniel, Petro Noah

P171: EPSC2018-54

Analyzing pit chains in Iceland to constrain regolith thickness on Enceladus

Whitten Jennifer, Martin Emily

P172: EPSC2018-577

Evolution of tectonics of Enceladus

Czechowski Leszek

P173: EPSC2018-197

Growth and Structural Style of Thrust Systems on Mars

Klimczak Christian, Kling Corbin L., Byrne Paul K.

P174: EPSC2018-739

Mapping of regional C-C'-S shear zones on the floor of Valles Marineris troughs

Mege Daniel, Gurgurewicz Joanna

P175: EPSC2018-735

Nature of cone distribution at aureole of Olympus Mons, Mars

Parekh Rutu

END OF POSTER PROGRAMME TP8/OPS11/MD5/SB23

Terrestrial Planets

TP4 ExoMars - First results from the TGO and plans for the 2020 Rover and Surface Platform

Convener: Håkan Svedhem

Co-conveners: Maurizio Pajola; Manish R. Patel; Daniel Rodionov; Jorge Vago

Lecture Room: Jupiter

08:30–10:15

Chairperson: D. Rodionov

08:30–08:45: EPSC2018-223

Thermal structure and aerosol content in the martian atmosphere from ACS-TIRVIM onboard ExoMars/TGO
Guerlet Sandrine, Ignatiev Nikolay, Fouchet Thierry, Forget François, Millour Ehouarn, Young Roland, Montabone Luca, Grigoriev Alexey, Trokhimovskiy Alexander, Montmessin Franck, Korablev Oleg

Related Results and Studies

08:45–09:00: EPSC2018-264

Recent results for the space radiation environment aboard ExoMars TGO provided by FRENDS Liulin-MO dosimeter

Semkova Jordanka and the Team Liulin-MO-FRENDS

09:00–09:15: EPSC2018-1236

The CaSSIS Digital Terrain Model generation and Archiving at OAPD

Cremonese Gabriele, Re Cristina Re

09:15–09:30: EPSC2018-1069

Martian winds could drive seasonal methane variations observed by MSL-SAM: implications for TGO observations

Pla-Garcia Jorge, Rafkin Scot

09:30–09:45: EPSC2018-1109

TGO limb observations and additional possibilities for upper atmosphere science on Mars

Lopez-Valverde Miguel Angel, Gerard Jean-Claude, González-Galindo Francisco, Vandaele Ann Carine, Korablev Oleg

Rover and Surface Platform mission

09:45–10:00: EPSC2018-813

The Exomars 2020 mission and the search for chemotrophic biosignatures

Westall Frances, Vago Jorge, Bridges John, Hickman-Lewis Keyron, Foucher Frédéric, Cavalazzi Barbara, Gautret Pascale, Campbell Kathy, Cockell Charles

10:00–10:15: EPSC2018-934

The Ancient Fluvial Catchment of the Candidate ExoMars 2020 Rover Landing Site in the Oxia Planum Basin

Fawdon Peter

10:15 Coffee break

10:45–12:30

Chairperson: J. L. Vago

10:45–11:00: EPSC2018-732

ExoMars-2020 Surface Platform scientific investigation
Rodionov Daniel, Zelenyi Lev, Korablev Oleg, Chulkov Ilya, Vago Jorge

11:00–11:15: EPSC2018-1117

ExoMars 2020 is Blossoming: Integration and Test is Underway

Haldemann Albert, **Baglioni Pietro**, Blancquaert Thierry, Gianfiglio Giacinto, Kasper Michael, Spoto Francois, Vago Jorge

11:15–11:30: EPSC2018-175

The PanCam instrument for the ExoMars 2020 rover

Coates Andrew and the ExoMars 2020 PanCam

11:30–11:45: EPSC2018-1002

The radar WISDOM for the ExoMars rover mission - Interpretation of the polarimetric data and contribution to the operations

Ciarletti Valerie, plettemeier Dirk, Hervé Yann, Le Gall Alice, Benedix Wolf-Stefan, Lu Yun

11:45–12:00: EPSC2018-922

The Raman Laser Spectrometer (RLS) for 2020 Exomars (ESA) Mission: Instrument development and operation on Mars

Rull Fernando, Maurice Sylvestre, Ian Hutchinson, Moral Andoni G., Perez Carlos, Belenguer Tomas, Ramos Gonzalo, Colombo Maria, Lopez-Reyes Guillermo, Garcia Valentin, Forni Olivier, Popp Juergen, Medina Jesus

12:00–12:15: EPSC2018-643

MA_MISS: a miniaturized spectrometer on the ExoMars Drill System

De Sanctis M. Cristina, Altieri Francesca, Ammannito Eleonora, Biondi David, De Angelis Simone, Ferrarri Marco, Tinivelli Paola, Mugnuolo Raffaele, Pirrotta Simone

12:15–12:30: EPSC2018-1148

CLUPI, a high-performance imaging system on the rover of the ExoMars mission 2020 to discover biofabrics on Mars. Science objectives and development status.

Josset Jean-Luc and the CLUPI Team

END OF ORAL PROGRAMME TP4

Lunar Science and Exploration

LSE4 Nine Years of Exploration with Lunar Reconnaissance Orbiter (LRO)

Convener: Mark Robinson

Co-conveners: Stephanie C. Werner; Harald Hiesinger

Lecture Room: Mars

08:30–10:15

Chairperson: Jaclyn D. Clark

08:30–08:45: EPSC2018-473

Moon South Pole Mapping by LEND Instrument

Sanin Anton, Mitrofanov Igor, Litvak Maxim, Bakhtin Boris, Boynton William, Chin Gordon, Harshman Karl, Golovin Dmitry, Kozyrev Alexander, Livengood Timothy, Malakhov Alexey, McClanahan Timothy, Mokrousov Maxim, Starr Richard, Sagdeev Roald, Tret'yakov Vladislav

08:45–09:00: EPSC2018-575

Reviewing the contribution of GRAIL to lunar science and planetary missions

Zuber Maria T, Smith David E

09:00–09:15: EPSC2018-583

LROC: Nine Years Exploring the Moon

Robinson Mark

09:15–09:30: EPSC2018-388

Diviner Lunar Radiometer Highlights from the LRO Cornerstone Mission

Greenhagen Benjamin, Paige David and the Diviner Lunar Radiometer Science Team

09:30–09:45: EPSC2018-603

The Distribution of Antipodal Ejecta from the Tycho Impact: Observations and Models

Paige David A., **Curren Ivy**, Russell Patrick, Moon Seulgi, Boyd Aaron

09:45–10:00: EPSC2018-492

Far-Ultraviolet Investigation of New Impact Craters and Cold Spots on the Moon Using the LRO LAMP Data

Liu Yang, Retherford Kurt, Greathouse Tommy, Mandt Kathy, Cahill Joshua, Hendrix Amanda, Raut Ujjwal, Grava Cesare, Byron Ben, Magana Lizeth, Egan Anthony

10:00–10:15: EPSC2018-482

Investigation Recent Impacts with Temporal Image Pairs and Photometric Sequences

Speyerer Emerson, Wagner Robert, Povilaitis Reinhold, Boyd Aaron, Robinson Mark, Denevi Brett

10:15 Coffee break

10:45–12:30

Chairperson: Emerson Speyerer

10:45–11:00: EPSC2018-748

Geologic Evidence for an Impact Ejecta Origin of Tycho's Antipode Terrain

Curren Ivy, Paige David, Russell Patrick, Moon Seulgi

11:00–11:15: EPSC2018-629

Investigating the Mandel'shtam lobate scarp complex

Clark Jaclyn D., van der Bogert Carolyn H., Hiesinger Harald, Watters Thomas R., Banks Maria E.

11:15–11:30: EPSC2018-1286

LROC Narrow Angle Camera Photometric Analysis of Crustal Lithologies: Pure Anorthosite Locales

(solicited talk)

Jolliff Brad, Watkins Ryan, Schonwald Anna, Hahn Timothy and the LROC Science Team

11:30–11:45: EPSC2018-255

A novel data processing technique for detection of deep subsurface echoes of lunar maria by Kaguya Lunar Radar Sounder

Kobayashi Takao, Lee Seung Ryol, Song Kyo-Yeong

11:45–12:00: EPSC2018-1208

South Pole-Aitken basin: outcrops and volcanic structures

Rommel Daniela

12:00–12:15: EPSC2018-646

Integrating Near and Thermal Infrared Data to Search for Lunar Mantle

Klima Rachel, Bretzfelder Jordan, Buczkowski Debra, Greenhagen Ben, Petro Noah

12:15–12:30: Questions & Discussions

END OF ORAL PROGRAMME LSE4

Outer Planet Systems

OPS4 Juno at Jupiter and Supporting Earth-Based Observations

Convener: Scott Bolton

Co-conveners: Alberto Adriani; Jack Connerney; Tristan Guillot; Alessandro Mura

Lecture Room: Saturn

10:45–12:20

Chairperson: A. Mura

Introduction

10:45–11:05: EPSC2018-447

The New Jupiter as Revealed by Juno

Bolton Scott, **Connerney Jack**, Levin Steve

Magnetosphere

11:05–11:20: EPSC2018-114

Electron and ion particle acceleration regimes observed by Juno over Jupiter's main aurora (solicited talk)

Mauk Barry, Haggerty Dennis, Paranicas Chris, Clark George, Kollmann Peter, Rymer Abigail, Bolton Scott, Levin Steven, Adriani Alberto, Allegrini Frederic, Bagenal Fran, Bonfond Bertrand, Connerney John, Ebert Robert, Elliott Sadie, Gladstone Randy, Kurth William, McComas Dave, Ranquist Drake, Valek Phil

11:20–11:35: EPSC2018-188

Juno Maps Jupiter's Planetary Magnetic Field
(solicited talk)

Connerney Jack, Oliverson Ronald, Espley Jared, Gershman Daniel, Kotsiaros Stavros, Martos Yasmina, Joergensen John, Joergensen Peter, Merayo Jose, Denver Troelz, Benn Mathias, Bloxham Jeremy, Moore Kimberley, Bolton Scott, Levin Steven

11:35–11:50: EPSC2018-160

Observations of Jupiter by the Juno Ultraviolet Spectrograph (Juno-UVS) (solicited talk)

Greathouse Thomas, Gladstone G. Randall, Hue Vincent, Versteeg Maarten, Bonfond Bertrand, Davis Michael, Grodent Denis, Gérard Jean-Claude, Kammer Joshua, Bolton Scott, Levin Steven, Connerney John

11:50–12:05: EPSC2018-556

Jupiter's magnetic field morphology: Implications for the dynamo

Moore Kimberly, Yadav Rakesh, Kulowski Laura, Cao Hao, Bloxham Jeremy, Connerney John, Kotsiaros Stavros, Jorgensen John, Merayo Jose, Stevenson David, Bolton Scott, Levin Stevin

12:05–12:20: EPSC2018-395

Juno Waves observations at Jupiter (solicited talk)

Kurth William, Hospodarsky George, Imai Masafumi, Elliott Sadie, Gurnett Donald, Louarn Philippe, Valek Phil, Allegrini Frederick, Connerney Jack, Mauk Barry, Bolton Scott, Levin Steven, Adriani Alberto, Gladstone Randy, McComas David, Zarka Philippe, Louis Coarentin

12:20 Lunch break**14:00–15:45**

Chairperson: J. Connerney

Lecture Room: Jupiter

14:00–14:15: EPSC2018-458

Energetic proton and heavy ion observations over Jupiter's main auroral and polar cap regions

Clark George, Mauk Barry, Haggerty Dennis, Kollmann Peter, Paranicas Chris, Rymer Abi, Mitchell Don, Allegrini Frederic, Ebert Robert, Hospodarsky George, Kurth Bill, Saur Joachim, Valek Phil, Bolton Scott, Connerney Jack, Levin Steve

14:15–14:30: EPSC2018-494

Jupiter's magnetic field & Io-related decameter radiation

Martos Yasmina M, Connerney Jack, Kotsiaros Stavros, Imai Masafumi

14:30–14:45: EPSC2018-617

Field aligned currents associated with Jupiter's auroras

Kotsiaros Stavros, Connerney John, Gladstone Randal, Kurth William, Clark George, Allegrini Frederic, Mauk Barry, Grreathouse Thomas, Bunce Emma, Martos Yasmina, Bolton Scott, Levin Steven

14:45–15:00: EPSC2018-666

Juno/JIRAM infrared observations of Jupiter: results of the first two years (solicited talk)

Mura Alessandro, Adriani Alberto, Bolton Scott, Connerney Jack and the JIRAM Team

Interior**15:00–15:15: EPSC2018-1185**

Unveiling Jupiter interior with Juno

Miguel Yamila, Guillot Tristan

15:15–15:30: EPSC2018-990

Probing Jupiter's interior with Juno: Linking atmosphere and interior

Guillot Tristan

15:30–15:45: EPSC2018-72

Jupiter's evolution with primordial composition gradients

Helled Ravit, Vazan Allona, Guillot Tristan

15:45 Coffee break**16:15–18:00**

Chairperson: T. Guillot

16:15–16:30: EPSC2018-977

Juno's sensitivity to the gravitational signature of Jupiter's meridional flows

Durante Daniele, Notaro Virginia, Racioppa Paolo, Galanti Eli, Kaspi Yohai, less Luciano

16:30–16:45: EPSC2018-263

How deep is the Great Red Spot? Determining the depth of the GRS with the Juno gravity measurements

Galanti Eli, Kaspi Yoha, Parisi Marzia, Folkner William

Atmosphere**16:45–17:00: EPSC2018-204**

Latest Results on Jupiter's Atmosphere and Radiation Belts from the Juno Microwave Radiometer (solicited talk)

Orton Glenn and the Juno Microwave Radiometer Team

17:00–17:15: EPSC2018-433

First measurements of the Jovian zonal winds profile through visible Doppler spectroscopy

Schmider François-Xavier, Goncalves Ivan, Gaulme Patrick, Morales-Jubieras Raul, Guillot Tristan, Appourchaux Thierry, Boumier Patrick, Jackiewicz Jason, Underwood Thomas, Voelz David, Sato Bun'ei, Ida Shigeru, Ikoma Masahiro, Rivet Jean-Pierre

17:15–17:30: EPSC2018-559

Jupiter's high-latitude hazes as mapped by JunoCam

Rogers John, Eichstädt Gerald, Hansen Candice, Orton Glenn, Momary Tom, Tabataba-Vakili Fachreddin, Caplinger Michael, Ravine Michael, Go Christopher, Casely Andy, Jacquesson Michel

17:30–17:45: EPSC2018-700

Properties of lightning whistlers observed in the topside ionosphere of Jupiter

Santolik Ondrej, Kolmasova Ivana, Imai Masafumi, Gurnett Donald A, Hospodarsky George B, Kurth William S, Bolton Scott J

17:45–18:00: EPSC2018-843

JunoCam Imaging Jupiter through PJ14

Ravine Michael, Hansen Candy, Orton Glenn, Thepenier Chloe, Momary Thomas, Caplinger Michael, Atreya Sushil, Ingersoll Andrew, Bolton Scott, Tabataba-Vakili Fachreddin, Rogers John, Eichstädt Gerald

END OF ORAL PROGRAMME OPS4**Modelling and Database**
MD3/TP13/OPS13 Multi-disciplinary approaches to investigate the shape, rotation, tides, interior structure and evolution of planets and moons (co-organized)
Convener: Sebastiano Padovan

Co-conveners: Alexander Stark; Britney Schmidt; Krista Soderlund; Thomas Ruedas; Nicola Tosi; Lena Noack; Jürgen Oberst; Rose-Marie Baland; Dominic Dirkx; Gabriele Cremonese; Antoine Rozel; Ruth Ziethe

Lecture Room: Uranus**14:00–15:30****Chairperson:** Sebastiano Padovan**14:00–14:15: EPSC2018-825**

Compositional Fractionation of Terrestrial Magma Oceans

Ballmer Maxim, Caracas Razvan, Bolrao Daniela, Hirose Kei

14:15–14:30: EPSC2018-215

Inferences on the mantle viscosity structure and the post-overtun evolutionary state of Venus (solicited talk)

Rolf Tobias, Steinberger Bernhard, Werner Stephanie, Sruthi Uppalapati

14:30–14:45: EPSC2018-856

Tidal response of Venus-like planets: Interior structure, composition and rotational evolution (solicited talk)

Dumoulin Caroline, Bolmont Emeline, Tobie Gabriel, Verhoeven Olivier, Rosenblatt Pascal, Rambaux Nicolas

14:45–15:00: EPSC2018-935

Non-gravitational Force Modeling For Magellan Orbit Determination

Inamdar Jayraj, Bertone Stefano, Girardin Valere, Arnold Daniel, Jaeggi Adrian

15:00–15:15: EPSC2018-1183

Interior structure models and fluid Love numbers of exoplanets in the super-Earth regime

Kellermann Clemens, Becker Andreas, Redmer Ronald

15:15–15:30: EPSC2018-221

Combined retrieval of the lunar body tide and a global topographic grid from LOLA data

Thor Robin, Kallenbach Reinald, Gläser Philipp, Stark Alexander, Christensen Ulrich, Oberst Jürgen

15:30 Coffee break**16:15–17:45****Chairperson:** Alexander Stark**16:15–16:30: EPSC2018-1275**

Scaling and onset of thermal convection in a rotating fast spherical layer

Starchenko Sergey, Kotelnikova Maria

16:30–16:45: EPSC2018-892

Precession of a spherical shells : application to the lunar core

Laguerre Raphael, Cébron David, Noir Jérôme, Schaeffer Nathanel

16:45–17:00: EPSC2018-864

Long-period deformations in Enceladus's ice shell (solicited talk)

Behoukova Marie, Soucek Ondrej, Cadek Ondrej, Hron Jaroslav, Tobie Gabriel, Choblet Gael

17:00–17:15: EPSC2018-1242

Planetary seismology reborn: Prospects for exploring interiors on Mars, icy ocean worlds and beyond (solicited talk)

Panning Mark P., Stähler Simon, Vance Steven, Kedar Sharon

17:15–17:30: EPSC2018-897

The Thermal State and Interior Structure of Mars as Predicted from 3D Thermal Evolution Models

Plesa Ana-Catalina, Padovan Sebastiano, Tosi Nicola, Breuer Doris, Grott Matthias, Wieczorek Mark A., Spohn Tilman, Smrekar Suzanne E., Banerdt William B.

17:30–17:45: EPSC2018-1100

Measurements of Mars rotational parameters by co-registration of Mars Orbiter Laser Altimeter (MOLA) profiles to Digital Terrain Models

Annibali Serena, Stark Alexander, Xiao Haifeng, Oberst Juergen

END OF ORAL PROGRAMME MD3/TP13/OPS13**Missions, Techniques and Industry**
MTI6 Deep-Space SmallSats mission concepts
Convener: Brook Lakew**Co-conveners:** Sabrina Feldman; Andris Slavinskis**Lecture Room:** Saturn**08:30–10:15****Chairpersons:** Brook Lakew, Sabrina Feldman**08:30–08:45: EPSC2018-1074**

NASA Small Innovative Missions For Planetary Exploration (SIMPLEX)

Daou Doris

08:45–09:00: EPSC2018-1181

ArgoMoon, a multipurpose cubesat platform for missions in Moon vicinity and orbit

Di Tana Valerio, Fiori Carlo, Simonetti Simone, Pirrotta Simone

09:00–09:15: EPSC2018-43

A minor mission to Ice Giant Neptune

Sanmartin Juan, Pelaez Jesus

09:15–09:30: EPSC2018-191

Concept of nano-probes exploration in small-body mission

Huang Jiangchuan, Guo Fan, Liao Huixi, Ma Jinan, Meng Linzhi, Wang Tong, Jia Xiaoyu

09:30–09:45: EPSC2018-320

Lunar Meteoroid Impact Observer (LUMIO): A CubeSat at Earth-Moon L2

Topputo Francesco, **Avdellidou Chrysa** and the LUMIO-team

09:45–10:00: EPSC2018-839

ASPECT hyperspectral imager for small interplanetary spacecrafts

Kohout Tomas, Näsilä Antti

10:00–10:15: EPSC2018-1228

Reliability of Small Satellites for Planetary Science Missions

Beauchamp Patricia, Johnson Michael, Schone Harald, Venturini Catherine

END OF ORAL PROGRAMME MT16**Exoplanets and Origins****EXO1 Observations and modelling of exoplanet atmospheres, interiors and orbits**

Convener: Giovanna Tinetti

Co-conveners: Olivia Venot; Ravit Helled

Lecture Room: Neptune

14:00–15:30**14:00–14:10: EPSC2018-93**

Interior characterization in multiplanetary systems: Trappist-1

Dorn Caroline, Mosegaard Klaus, Grimm Simon

14:10–14:20: EPSC2018-107

Optical indices of organic aerosols for oxidizing atmospheres of Earth-like exoplanets

Carrasco Nathalie, Gavilan Lisseth, Broch Laurent, Fleury Benjamin, Vettier Ludovic

14:20–14:30: EPSC2018-234

GAPS: Results from 5 years of observations

Claudi Riccardo, Benatti Serena, Boccato Caterina, Covino Elvira, Desidera Silvano, Gratton Raffaele, Lanza Antonino F., Maggio Antonio, Micela Giuseppina, Molinari Emilio, Pagano Isabella, Piotto Giampaolo, Poretti Ennio, Smareglia Riccardo, Sozzetti Alessandro

14:30–14:40: EPSC2018-23

Threshold Radii for Water Worlds and Neptune-like Planets

Lozovsky Michael, Helled Ravit, Dorn Caroline, Venturini Julia

14:40–14:50: EPSC2018-241

Effective induction heating inside exoplanets orbiting strongly magnetized M dwarfs

Kislyakova Kristina, Noack Lena, Johnstone Colin, Fossati Luca, Lammer Helmut, Güdel Manuel

14:50–15:00: EPSC2018-244

Possible discovery of two Mini-Neptune type planets around a dim K-star

Herath Mahesh, Hinse Tobias Cornelius, Gunesequera Saraj, Jayaratne Chandana

15:00–15:10: EPSC2018-266

ExoAI: Deep learning in exoplanet spectroscopy

Waldmann Ingo, Zingales Tiziano

15:10–15:20: EPSC2018-253

Impact of exomoons in flux and polarization phase curves of starlight reflected by exoplanets

Berzosa Molina Javier, Rossi Loïc, Stam Daphne

15:20–15:30: EPSC2018-391

Investigating cloud cover variability on Earth-like exoplanets using polarimetry

Rossi Loïc, Groot Ashwyn, Fauchez Thomas, Stam Daphne M.

15:30 Coffee break**16:15–17:45****16:15–16:25: EPSC2018-343**

Atmospheric Retrieval using Deep Learning

Zingales Tiziano, Waldmann Ingo

16:25–16:35: EPSC2018-467

A comparison of exoplanet spectroscopic retrieval tools

Barstow Joanna, Garland Ryan, Line Michael, Rocchetto Marco, Waldmann Ingo

16:35–16:45: EPSC2018-500

SHINE, SPHERE High-contrast ImagiNg survey for Exoplanets

Langlois Maud and the Shine Team

16:45–16:55: EPSC2018-628

Detectability of Atmospheric Features of Terrestrial Planets in the Habitable Zone around M-dwarfs

Wunderlich Fabian, Godolt Mareike, Grenfell John Lee, Städt Steffen, Rauer Heike, Gebauer Stefanie, Schreier Franz, Hedelt Pascal

16:55–17:05: EPSC2018-669

New Insights into Cosmic Ray induced Biosignature Chemistry in Earth-like Atmospheres

Scheucher Markus, Grenfell Lee, Godolt Mareike, Schreier Franz, Rauer Heike

17:05–17:15: EPSC2018-782

Dynamical deviations from superrotation in hot Jupiters

Carone Ludmila, Baeyens Robin, Mollière Paul, Barth Patrick, Sarkis Paula, Decin Leen, Venot Olivia, Henning Thomas

17:15–17:25: EPSC2018-716

Mass-Radius Contribution of
Sub-Neptunian Atmospheres

MacKenzie Jasmine, Baumeister Philipp, Godolt Mareike, Tosi Nicola

17:25–17:35: EPSC2018-780

Water build-up on planets orbiting M-Stars via secondary outgassing from the interior

Godolt Mareike, Stracke Barbara, Tosi Nicola, Grenfell John Lee

17:35–17:45: EPSC2018-787

Are giant planets good neighbours for habitable worlds?

Georgarakos Nikolaos

**END OF THURSDAY ORAL PROGRAMME EXO1
ORAL PROGRAMME EXO1 CONTINUES ON FRIDAY**

EXO2 Formation and Dynamical Evolution of Planetary Systems

Convener: Ravit Helled

Co-convener: Yann Alibert

Lecture Room: Neptune

10:45–12:15**10:45–11:00: EPSC2018-1010**

Relaxation of resonant two-planet systems and their TTVs
Mardling Rosemary

11:00–11:15: EPSC2018-1021

Enrichment of Heavy Elements in Gas Giant Planets during the Supply-Limited Accretion Phase

Shibata Sho, Ikoma Masahiro

11:15–11:30: EPSC2018-1070

Early tidal evolution of the TRAPPIST-1 system

Bolmont Emeline, Coleman Gavin, Blanco-Cuaresma Sergi

11:30–11:45: EPSC2018-1122

Second-order mean-motion resonances in a system of two low-mass planets

Szuszkiewicz Ewa, Papaloizou John, Cui Zijia

11:45–12:00: EPSC2018-426

Evolution of trojan exoplanets in protoplanetary discs

Leleu Adrien, Coleman Gavin, Ataiee Sareh

12:00–12:15: EPSC2018-1046

Dynamical perturbations of Earth-type planets in binary star systems

Pilat-Lohinger Elke, Bazsó Ákos, Haghighipour Nader

END OF ORAL PROGRAMME EXO2

EXO4/TP14/OPS9/MD6 Matter Under Planetary Interior Conditions (co-organized)

Convener: Frank Sohl

Co-conveners: Martin French; Zuzana Konopkova; Sebastiano Padovan

Lecture Room: Neptune

08:30–10:25

Chairpersons: M. French, S. Padovan

08:30–08:50: EPSC2018-1274

Growth Model Interpretation of Planet Size Distribution (solicited talk)

Zeng Li, Jacobsen Stein B., Sasselov Dimitar D., Vanderburg Andrew, López-Morales Mercedes, Perez-Mercader Juan, Petaev Michail I., Mattsson Thomas R.

08:50–09:05: EPSC2018-558

Mantle mixing over time

Noack Lena, Balduin Alexander

09:05–09:20: EPSC2018-678

Effects of different equations of state on the interior structure of exoplanets

Baumeister Philipp, MacKenzie Jasmine, Tosi Nicola, Godolt Mareike

09:20–09:50: EPSC2018-487

Light elements in planetary cores: a review (solicited talk)

Morard Guillaume

09:50–10:05: EPSC2018-541

An experimental approach to investigate carbon rich exoplanets interior

Miozzi Francesca, Morard Guillaume, Antonangeli Daniele, Clark Alisha Nicole, Dorn Caroline, Antoine Rozel, Mezouar Mohamed, Baron Marzena Anna, Pakhomova Anna, Fiquet Guillaume

10:05–10:25: EPSC2018-540

Ab-initio studies of ammonia-water mixtures at icy planet mantle conditions (solicited talk)

Hermann Andreas, Naden Robinson Victor, Marques Miriam, Christiansen Jacob, Wang Yanchao, Ma Yanming

END OF ORAL PROGRAMME EXO4/TP14/OPS9/MD6

Small Bodies (comets, KBOs, rings, asteroids, meteorites, dust)

SB3 The Martian Moons - current knowledge and future exploration

Convener: Konrad Willner

Co-conveners: Masaki Fujimoto; Stephan Ulamec

Lecture Room: Saturn

16:15–17:45

Chairpersons: K. Willner / S. Ulamec

16:15–16:30: EPSC2018-1036

Martian Moons eXploration (MMX) : an overview of its science

Kuramoto Kiyoshi, Kawakatsu Yasuhiro, Fujimoto Masayuki and the MMX international Science Board

16:30–16:45: EPSC2018-567

DRAGON: the Deimos Reconnaissance And Geological ObservatioN CubeSat

Thangavelautham Jekan, Asphaug Erik

16:45–17:00: EPSC2018-159

Spectral modeling (0.5-2.5 μm) of the Phobos Blue-Red transition area

Pajola Maurizio, Roush Ted, Dalle Ore Cristina, Marzo Giuseppe, Simioni Emanuele

17:00–17:15: EPSC2018-880

Spectral and Thermophysical characterization of a Phobos regolith simulant for MMX mission

Maturilli Alessandro, Miyamoto Hiryo, Niihara Takafumi, Grott Matthias, Knollenberg Jörg, Helbert Jörn, Sakatani Naoya, Ogawa Kazunori

17:15–17:30: EPSC2018-545

Illumination Conditions in Phobos' Polar Areas

Ziese Ramona, Willner Konrad, Oberst Jürgen

17:30–17:45: EPSC2018-758

Equipotential surfaces and geodetic implications on formation of Martian moons

Hu Xuanyu, Oberst Jürgen, Willner Konrad

END OF ORAL PROGRAMME SB3

SB7 KBOs and Centaurs

Convener: Davide Perna

Co-conveners: Maria Teresa Capria; Sonia Fornasier; Olivier Hainaut; Michele Bannister; Karen Meech; Alan Fitzsimmons

Lecture Room: Saturn

14:00–15:45

Chairpersons: Davide Perna, Olivier Hainaut

14:00–14:10: EPSC2018-598

The Trojan Color Conundrum

Jewitt David

14:10–14:20: EPSC2018-526

Jupiter Trojan's shallow subsurface: direct observations by radar on board OKEANOS mission

Herique Alain, Beck Pierre, Michel Patrick, Kofman Wlodek, Kumamoto Atsushi, Okada Tatsuaki, Plettemeier Dirk

14:20–14:30: EPSC2018-1263

2013 UL10: the first very red active Centaur

Mazzotta Epifani Elena, Dotto Elisabetta, Ieva Simone, Perna Davide, Palumbo Pasquale, Micheli Marco, Perozzi Ettore

14:30–14:40: EPSC2018-363

Close encounters and collisions of Centaurs with terrestrial planets

Galiazzo Mattia, Silber Elizabeth, Dvorak Rudolf

14:40–14:50: EPSC2018-821

Chariklo's body and ring system: three multi-chord stellar occultations in 2017

Desmars Josselin, Bérard Diane, Sicardy Bruno, Meza Erick, Leiva Rodrigo, Colas François, Maquet Lucie, Bath Karl-Ludwig, Beisker Wolfgang, Kretlow Mike, Dauvergne Jean-Luc, Assafin Marcelo, Benedetti-Rossi Gustavo, Braga-Ribas Felipe, Camargo Julio, Vieira-Martins Roberto, Duffard Rene, Ortiz Jose Luis, Santos-Sanz Pablo

14:50–15:00: EPSC2018-76

The stellar occultation by the Transneptunian Object 2002TC302 on January 28th 2018. Preliminary results.

Ortiz Jose L., Santos-Sanz Pablo, Sicardy Bruno, Benedetti-Rossi Guga and the 2002TC302 collaboration

15:00–15:10: EPSC2018-793

Search for sub-kilometre sized trans-Neptunian objects using MIOSOTYS observations

Liu Chih-Yuan, Doressoundiram Alain, Roques Francoise, Chang Hsiang-Kuang, Maquet Lucie

15:10–15:20: EPSC2018-766

1I/2017 U1 ('Oumuamua), a Portrait

Hainaut Olivier R., Meech Karen J., Micheli Marco, Belton Michael S. J.

15:20–15:30: EPSC2018-1118

Detailed photometric characterization of 'Oumuamua with Gemini North

Drahus Michal, Guzik Piotr, Waniak Wacław, Handzlik Barbara, Kurowski Sebastian, Xu Siyi

15:30–15:40: EPSC2018-1103

1I/'Oumuamua - probably too small to ever be an active comet

Guzik Piotr, Drahus Michal

15:40–15:45: Discussion

END OF ORAL PROGRAMME SB7

SB8/AB4 Comets after Rosetta - what do we know and what are the new questions (co-organized)

Convener: Matthew Taylor

Co-conveners: Maria Teresa Capria; Bonnie Buratti; Mathieu Choukroun

Lecture Room: Venus

16:15–18:00

16:15–16:30: EPSC2018-17

Oxygen Isotopes in Water in the Coma of Comet 67P / Churyumov-Gerasimenko as measured with the Rosetta / ROSINA Double Focusing Mass Spectrometer

Schroeder Isaac and the ROSINA

16:30–16:45: EPSC2018-129

A ROSINA Perspective on the Organics in Comet 67P/Churyumov-Gerasimenko

Schuhmann Markus, Altwegg Kathrin, Balsiger Hans, Berthelier Jean-Jacques, De Keyser Johan, Fiethe Björn, Fuselier Stephen, Gasc Sebastien, Gombosi Tamas, Hänni Nora, Rubin Martin, Tzou Chia-Yu

16:45–17:00: EPSC2018-182

Modelling the trapping of noble gases in comets ices

Paizat Françoise, Ellinger Yves, Ozgurel Ozge, Doronin Mikhail, Mousis Olivier

17:00–17:15: EPSC2018-515

Gas production of comet 67P/Churyumov-Gerasimenko reconstructed from DFMS/COPS data

Läuter Matthias, Kramer Tobias, Rubin Martin, Altwegg Kathrin

17:15–17:30: EPSC2018-256

New constraints on the chemical composition and outgassing of 67P/Churyumov-Gerasimenko

Herny Clémence, Mousis Olivier, Marschall Raphael, Thomas Nicolas, Rubin Martin, Wright Ian

17:30–17:45: EPSC2018-115

Modelling the inner coma of comet 67P/Churyumov-Gerasimenko

Kramer Tobias, Laeuter Matthias

17:45–18:00: EPSC2018-296

The inner coma of 67P/Churyumov-Gerasimenko as seen from OSIRIS and VIRTIS on board Rosetta

Tubiana Cecilia, Rinaldi Giovanna, Güttler Carsten, Hu Xuanyu, Shi Xian, La Forgia Fiorangela, Bockelee-Morvan Dominique, Capaccioni Fabrizio, Ciarniello Mauro, Erard Stephan, Filacchione Gianrico, Formisano Michelangelo, Leyrat Cedric, Longobardo Andrea, Raponi Andrea, Sierks Holger, Tozzi Gian Paolo and the OSIRIS and VIRTIS teams

**END OF THURSDAY ORAL PROGRAMME SB8/AB4
ORAL PROGRAMME SB8/AB4 CONTINUES
ON FRIDAY**

SB15 Interpretation of observational data using spectro-polarimetric techniques

Convener: Karri Muinonen

Co-conveners: Maria Gritsevich; Alberto Cellino

Lecture Room: Mars

14:00–15:45

Chairperson: Karri Muinonen

14:00–14:30: EPSC2018-730

Phase angle effects in brightness and polarization for different classes of small Solar system bodies (solicited talk)

Belskaya Irina, Shevchenko Vasilij

14:30–15:00: EPSC2018-836

First steps towards a database of polarisation spectra of asteroids (solicited talk)

Bagnulo Stefano, Cellino Alberto, Borisov Galin, Christou Apostolos, Stam Daphne, Belskaya Irina, Sterzik Michael, Muinonen Karri

15:00–15:15: EPSC2018-761

Asteroid photometric phase curves from Gaia observations

Muinonen Karri, Gritsevich Maria, Cellino Alberto

15:15–15:30: EPSC2018-572

The Mission Accessible Near-Earth Objects Survey (MANOS): first results from the visible spectroscopic survey

Devoe Maxime, Moskovitz Nicholas, Thomas Cristina, Thirouin Audrey, Mommert Michael, Polishook David, Skiff Brian, Magnuson Mitchell, Gustafsson Annika

15:30–15:45: EPSC2018-1120

Asteroid taxonomy with limited spectral ranges

Penttilä Antti

15:45 Coffee break

16:15–18:00

Chairperson: Antti Penttilä

16:15–16:45: EPSC2018-762

Wavelength-dependent multiple scattering modeling for planetary regoliths (solicited talk)

Markkanen Johannes, Väisänen Timo, Agarwal Jessica, Penttilä Antti, Muinonen Karri

16:45–17:00: EPSC2018-1037

Light scattering from densely packed irregular particle clusters in the geometric optics regime using inhomogeneous waves

Väisänen Timo, Markkanen Johannes, Martikainen Julia, Lindqvist Hannakaisa, Muinonen Karri

17:00–17:15: EPSC2018-1269

Validation of light scattering models with advanced 4 π scatterometry

Gritsevich Maria, Penttilä Antti, Maconi Göran, Helander Petteri, Kassamakov Ivan, Martikainen Julia, Markkanen Johannes, Väisänen Timo, Blum Jürgen, Puranen Tuomas, Salmi Ari, Hæggeström Edward, Muinonen Karri

17:15–17:30: EPSC2018-1016

Linear polarisation of comets observed with STEREO
Nezic Rok, Bagnulo Stefano, Jones Geraint H., Borisov Galin

17:30–17:45: EPSC2018-136

Comparative analyses of two Jupiter family comets: dust-rich 67P/Churyumov-Gerasimenko and dust-poor 2P/Encke

Rosenbush Vera, Kiselev Nikolai, Ivanova Oleksandra, Shubina Olena, Petrov Dmitry, Kleshchonok Valeriy, Afanasiev Viktor

17:45–18:00: EPSC2018-251

(3200) Phaethon: asteroid or comet?

Cellino Alberto, Devogele Maxime, Belskaya Irina, Bagnulo Stefano, Bendjoya Philippe and the Alberto Cellino

END OF ORAL PROGRAMME SB15

Laboratory and Field Investigations

LF1 Earth Analogues: state of the art and future

Convener: Felipe Gómez

Co-conveners: Barbara Cavalazzi; Akos Kereszturi; Gernot Groemer; Bernard Schmitt; Mohamed Ramy El-Maarry; Nikolaus J. Kuhn; Jessica Flahaut

Lecture Room: Venus

08:30–10:00

Chairperson: Bernard Schmitt

08:30–08:45: EPSC2018-1180

Extremophiles from Tirez and Peña Hueca: Implications for exploring habitability of Mars and Europa
 Thombre Rebecca, Kulkarni Priyanka, **Gomez Felipe**, Sivaraman Bhalamurugan

08:45–09:00: EPSC2018-98

Danakil Depression Flats as Analogues for RADAR-Smooth Surfaces of Titan, Mars and Venus
Radebaugh Jani, Lorenz Ralph, Kerber Laura, Bandeira Lourenço, Vaz David, Dame Rudger, Ori Gian

09:00–09:15: EPSC2018-216

Field work at Ojos del Salado: a new high altitude extreme Mars analogue candidate site in Atacama desert
Kereszturi Akos

09:15–09:30: EPSC2018-300

The ScanMars radar onboard AMADEE-18 analog mission to Mars
Frigeri Alessandro, Ercoli Maurizio, Pauselli Cristina, Groemer Gernot

09:30–09:45: EPSC2018-301

The Azorean fumarolic fields as an analog for Mars hydrothermal alteration

Flahaut Jessica, Viveiros Fatima, Silva Catarina, Rennie Vincent, Cruz Jose, Moreno Lucia, Freire Pedro, Minin Mikhail, Olsson-Francis Karen, Rossi Angelo

09:45–10:00: EPSC2018-381

Discovery of a hydrothermal fissure in the Danakil depression

Mege Daniel, Hauber Ernst, De Craen Mieke, Moors Hugo, Minet Christian

10:00 Coffee break**10:45–12:15**

Chairperson: Felipe Gomez

10:45–11:00: EPSC2018-408

AGPA: Integrating field Geology and Geophysics for Planetary Analogues

Rossi Angelo Pio, Unnithan Vikram, Torrese Patrizio, Borrmann Dorit, Nuechter Andreas, Lauterbach Helge, Ortenzi Gianluigi, Jaehrig Tim, Sohl Frank, Pozzobon Riccardo, Sauro Francesco, Minin Mikhail

11:00–11:15: EPSC2018-422

Testing Operational strategies for the Mars 2020 Helicopter using a UAV

El-Maarry Mohamed Ramy, Black Sarah, Hynek Brian, Yingst Aileen

11:15–11:30: EPSC2018-642

Thermal characterisation and mapping of the fumaroles on Vulcano, Italy: Potential analogues for Martian terrains
Unnithan Vikram, Haselback Sarah-Lynn, Stern Sönke, Sohl Frank

11:30–11:45: EPSC2018-1003

Analog studies on Iceland for support of the MEDA instrument of the future Mars 2020 NASA mission
 Prieto-Ballesteros Olga, Molina Antonio, Carrizo Daniel, **Neto-Lima Joana**, Muñoz-Iglesias Victoria, Fernandez-Sampedro Maria Teresa, Rodriguez-Manfredi Jose Antonio

11:45–12:00: EPSC2018-1152

A physico-chemical and geo-microbiological study of ten different lakes located in the Danakil depression

Moors Hugo, De Craen Mieke

12:00–12:15: EPSC2018-84

Geomicrobiology of Rock Varnish in a natural extreme acidic environment: Río Tinto

Jordán-Soria José, Amils Ricardo, Gómez Felipe

END OF ORAL PROGRAMME LF1

LFI2 The distributed planetary simulation and sample analysis facilities

Convener: Jörn Helbert

Co-conveners: Felipe Gómez; Gareth Davies

Lecture Room: Venus

14:00–15:30

Chairperson: Joern Helbert

14:00–14:15: EPSC2018-11

Dust Loading and Pressure Drop of Fibrous Filters for Atmospheric In-Situ Resource Utilisation on Mars 2020

McClellan John, Merrison Jonathan, Iversen Jens, Pike William and the MOXIE science team

14:15–14:30: EPSC2018-239

Emissivity and reflectance measurements of particulate mixtures for the interpretation of planetary remote sensing data

Alemanno Giulia, Maturilli Alessandro, Helbert Joern, Galiano Anna

14:30–14:45: EPSC2018-548

CO₂ ice morphologies under Martian conditions

Portyankina Ganna, Merrison Jonathan, Iversen Jens Jacob, **Yoldi Zurine**, Hansen Candice, Aye Klaus-Michael, Pommerol Antoine, Thomas Nicolas

14:45–15:00: EPSC2018-550

Temperature-dependent VNIR spectroscopy of thénardite and mirabilite

Tosi Federico, De Angelis Simone, Carli Cristian, Beck Pierre, Potin Sandra, Brissaud Olivier, Schmitt Bernard, Piccioni Giuseppe

15:00–15:15: EPSC2018-753

The Planetary Spectroscopy Laboratory (PSL)

Maturilli Alessandro, Helbert Jörn, Varatharajan Indhu, Rosas Ortiz Yaquelin, D'Amore Mario

15:15–15:30: EPSC2018-901

Spectroscopy on silicate glasses from two magmatic series: implications for planetary studies.

Pisello Alessandro, De Sanctis Maria Cristina, Maturilli Alessandro, Ferrari Marco, De Angelis Simone, Vetere Francesco, Pauselli Cristina, Perugini Diego

END OF ORAL PROGRAMME LFI2

Outreach, Education and Policy

OEP2 Planetary science as an example of Science communication in society

Convener: Julie Nekola Novakova

Co-conveners: Eleni Chatzichristou; Rosa Doran

Lecture Room: Uranus

08:30–10:15

Chairperson: Eleni Chatzichristou

08:30–08:45: EPSC2018-535

Design Thinking for Space Exploration

Doran Rosa, Saraiva Jose, Tyszka Steph

08:45–09:00: EPSC2018-1212

Europlanet Evaluation Toolkit

Dewitt Jen, Bultitude Karen, Heward Anita

09:00–09:15: EPSC2018-874

Europlanet Outreach Videos, using popular science videos to reach a wider audience

Barrosa Mariana

09:15–09:30: EPSC2018-1080

Communicating Planetary Science Through Social Media

Heenatigala Thilina

09:30–09:45: EPSC2018-1261

A hard sell? Engaging UK and European politicians with space science

Massey Robert

09:45–10:00: EPSC2018-727

Mars Sample Return Outreach – Planning a Meaningful and Participatory Public Engagement Programme

Heward Anita, Klug Boonstra Sheri

10:00–10:15: Mars Sample Return Outreach: discussion

10:15 Coffee break

10:45–12:30

Chairperson: Eleni Chatzichristou

10:45–11:00: EPSC2018-119

The Age of Planetary Defense.

Daou Doris

11:00–11:15: EPSC2018-180

SVO-ast: A citizen-science project to identify NEAs and Mars crossers using the Virtual Observatory

Solano Enrique, Rodrigo Carlos, Carry Benoit, **Cortés-Contreras Miriam**

11:15–11:30: EPSC2018-148

The Radio Meteor Zoo: involving citizen scientists in radio meteor research

Calders Stijn, Lamy Hervé, De Keyser Johan, Verbeeck Cis, Martinez Picar Antonio, Tetard Cédric

11:30–11:45: EPSC2018-3

The CESAR Education initiative

Pérez-Ayúcar Miguel, Breithelner Michel, Castillo Fraile Manuel

11:45–12:00: EPSC2018-524

Stories of Tomorrow in Portugal: the first year

Saraiva Jose, Doran Rosa, Tyszka Steph

12:00–12:15: EPSC2018-262

The ASL (Alternanza Scuola Lavoro) program: an Italian example to bring research to school and school to research

Giacomini Livia, **Postiglione Adriana**, De Angelis Ilaria, Ziggotti Marco

12:15–12:30: EPSC2018-1112

Summer Schools at Vulcano (2015-2018): A natural laboratory for marine, terrestrial and planetary science and technology

Unnithan Vikram, Sohl Frank, Thomsen Laurenz, Wilde Martina

END OF ORAL PROGRAMME OEP2

Lunar Science and Exploration

LSE4 Nine Years of Exploration with Lunar Reconnaissance Orbiter (LRO)

Convener: Mark Robinson

Co-conveners: Stephanie C. Werner; Harald Hiesinger

Chairperson: Daniela Rommel

Attendance time: Thursday, 18:15–20:00

P1: EPSC2018-638

Effects of Visible Albedo on Mid-Infrared Spectra under Simulated Lunar Environment as Compared to Diviner Lunar Radiometer

Shirley Katherine, Glotch Timothy

P2: EPSC2018-817

Lunar and Mercury morphometric crater catalogues (diameter 1-10 km)

Kozlova Natalia, **Kolenkina Maria**, Zharkova Anastasia, Zavyalov Igor, Kokhanov Alexander, Karachevtseva Irina

P3: EPSC2018-1127

DEM generation and rover landing at the south pole of the Moon

Feng Lang, Muller Jan-Peter

END OF POSTER PROGRAMME LSE4

Outer Planet Systems

OPS4 Juno at Jupiter and Supporting Earth-Based Observations

Convener: Scott Bolton

Co-conveners: Alberto Adriani; Jack Connerney;

Tristan Guillot; Alessandro Mura

Chairperson: G. Orton

Attendance time: Thursday, 18:15–20:00

P4: EPSC2018-26

Juno and the New Renaissance

Clarke Theodore

P5: EPSC2018-463

Short-term and long-term variability of Jupiter's auroral stratosphere

Sinclair James, Orton Glenn, Greathouse Thomas, Kasaba Yasumasa, Sato Takao, Giles Rohini, Melin Henrik, Fletcher Leigh, Moses Julianne, Irwin Patrick

P6: EPSC2018-517

Jovian broadband kilometric radio sources correlated with the ultraviolet main oval as viewed from Juno

Imai Masafumi, Greathouse Thomas K., Gladstone G. Randall, Kurth William S., Louis Corentin K., Hospodarsky George B., Zarka Philippe, Bolton Scott J., Connerney John E.P., Levin Steven M.

P7: EPSC2018-1045

A possible determination of Jupiter's frequency-dependent tides at the end of the Juno mission
Notaro Virginia, Durante Daniele, Iess Luciano

P8: EPSC2018-1041

Toward modeling Jupiter's 3D shape and gravity field
Nettelmann Nadine

P9: EPSC2018-87

Cyclonic activities on Jupiter and Earth; catastrophic atmospheric phenomena of the wave nature: El-Nino, cyclon, tornado

Kochemasov Gennady G.

P10: EPSC2018-702

Long-term behavior of Jovian polar vortices from JunoCam observations

Tabataba-Vakili Fachreddin, Orton Glenn, Hansen Candice, Rogers John, Eichstädt Gerald, Momary Tom, Caplinger Mike, Ravine Mike, Bolton Scott

P11: EPSC2018-637

First hints on tropospheric composition at Jupiter's polar regions from JIRAM-Juno data

Grassi Davide, Adriani Alberto, Mura Alessandro, Bolton Scott

P13: EPSC2018-56

Jupiter's 2018 South Temperate Belt Disturbance: Observations and numerical modelling

Iñurriagarro Peio, Hueso Ricardo, Sánchez-Lavega Agustín, Legarreta Jon, Gómez-Forrellad Josep María

P14: EPSC2018-938

Constraining spatial and temporal variations in Jupiter's vertical cloud and chromophore structure (2014-2018) with VLT/MUSE

Braude Ashwin, Irwin Patrick, Orton Glenn, Fletcher Leigh, Wittal Matthew

P15: EPSC2018-1144

Assessing quasi-periodicities in Jovian X-ray emissions: techniques and statistical survey of Chandra observations

Jackman Caitriona, Knigge Christian, Altamirano Diego, Gladstone Randy, Dunn William, Elsner Ron, Kraft Ralph, Branduardi-Raymont Graziella, Peter Ford

END OF POSTER PROGRAMME OPS4

Modelling and Database

MD4 Solar and Planetary Data system Interoperability

Convener: Baptiste Cecconi

Co-conveners: Stéphane Erard; Vincent Génot; Angelo Pio Rossi

Attendance time: Thursday, 18:15–20:00

P16: EPSC2018-125

Lunar scientific database of Chinese Chang'e missions

Zhang Zhoubin, Fu Qiang, Ren Xin, Zhang Hongbo

P17: EPSC2018-878

Multi-dimensional analysis and visualization of planetary electromagnetic field fluctuations by the iPECMAN interface

Piša David, Santolík Ondřej, Souček Jan, Taubenschuss Ulrich

P18: EPSC2018-948

NEODECS - presentation of the new service

Kryszczyńska Agnieszka, Kwiatkowski Tomasz, Bartczak Przemysław, Adamczyk Andrzej, Taberski Grzegorz

P19: EPSC2018-1095

Applications of Jupyter Notebook to VO-GIS interoperability

Minin Mikhail, Pio Rossi Angelo, Cecconi Baptiste, Marmo Chiara, Erard Stéphane

P20: EPSC2018-677

Mapping bibliometrics for Planetary Science

Rossi Angelo Pio, Shin Jaeho, Marco Figuera Ramiro, Minin Mikhail, Manaud Nicolas

END OF POSTER PROGRAMME MD4

Exoplanets and Origins

EXO1 Observations and modelling of exoplanet atmospheres, interiors and orbits

Convener: Giovanna Tinetti

Co-conveners: Olivia Venot; Ravit Helled

Attendance time: Thursday, 18:15–20:00

P21: EPSC2018-681

Model Atmospheres for Volatile-Rich Hot Rocky Planets

Lupu Roxana, Fegley Bruce, Marley Mark, Lodders Katharina

P22: EPSC2018-483

First results of ESA's OGS multi-band observations of extra-solar planets

Heras Ana Maria, **Stankov Anamarija**, Rätz Stefanie, Pilbratt Goran, Dubois Louis, Gondoin Philippe, Schulz Rita, Ferruit Pierre, Giardini Giovanna, Isaak Kate

P23: EPSC2018-146

Direct imaging of magma oceans in nearby young stellar associations

Bonati Irene, **Lichtenberg Tim**, Bower Dan J., Timpe Miles L., Quanz Sascha P.

P24: EPSC2018-723

Transmission spectroscopy with the ACE-FTS infrared spectral atlas of Earth: A model validation and feasibility study

Schreier Franz, Städt Steffen, Hedelt Pascal, Godolt Mareike

P25: EPSC2018-1011

Validation of an exoplanetary atmospheric model for high resolution spectroscopy for remote sensing

Shulyak Denis, Rengel Miriam, Reiners Ansgar

P26: EPSC2018-359

On integrating light-curve modelling with atmospheric retrieval techniques

Yip Kai Hou, Waldmann Ingo, Tsiaras Angelos, Tinetti Giovanna

P27: EPSC2018-373

Haze layer from reflection spectra of Titan-like exoplanets

Rannou Pascal, West Robert

P28: EPSC2018-410

Characterizing super-Mercuries via state-of-the-art interior models

Brugger Bastien, Mousis Olivier, Deleuil Magali

P29: EPSC2018-792

Feasibility study for a retrieval from transit spectra of Earth-like planets in the habitable zone

Städt Steffen, Schreier Franz, Wunderlich Fabian, Godolt Mareike

P30: EPSC2018-887

The controls of planetary bulk composition and tectonic style on the long-term evolution of outgassed atmospheres

Spaargaren Robert, Ballmer Maxim, Dorn Caroline, Bower Daniel, Tackley Paul

END OF POSTER PROGRAMME EXO1

EXO2 Formation and Dynamical Evolution of Planetary Systems

Convener: Ravit Helled

Co-convener: Yann Alibert

Attendance time: Thursday, 18:15–20:00

P31: EPSC2018-12

Condensation of gas-dust particles in the dust shells of protostars and the formation of "embryos" of planets

Abdulmyanov Tagir

P32: EPSC2018-282

On the geometry of forming encounter in two young asteroid pairs

Rosaev Alexei, Perpv Nikolai, Plavalova Eva

P33: EPSC2018-328

Approaching Preplanetary Streaming Instabilities in Laboratory Experiments

Schneider Niclas, Wurm Gerhard

P34: EPSC2018-995

A survey of collision outcomes during planet formation: water transport and loss

Maindl Thomas, Winter Philip, **Pilat-Lohinger Elke**, Haghighipour Nader, Schäfer Christoph, Burger Christoph, Dvorak Rudolf

P35: EPSC2018-1128

Improved encounter scenario for planetary embryos - A comparison between single-star and binary-star systems

Pilat-Lohinger Elke, Maindl Thomas, Bancelin David, Schäfer Christoph, Bazsó Ákos

P36: EPSC2018-516

Migration of bodies to the Earth from different distances from the Sun
Ipatov Sergei

P37: EPSC2018-879

Dynamical limitations on the habitability of planets in binary star systems
Bazso Akos, Pilat-Lohinger Elke

END OF POSTER PROGRAMME EXO2

EXO3 Future instruments to detect and characterise extrasolar planets

Convener: Paul Eccleston

Co-conveners: Camilla Danieliski; Enzo Pascale

Chairperson: Paul Eccleston

Attendance time: Thursday, 18:15–20:00

P38: EPSC2018-446

First Call for Proposals for the CHEOPS Guest Observers Programme
Isaak Kate

P39: EPSC2018-711

ARIELSim - the dedicated time domain simulator for the ARIEL mission.
Sarkar Subhajit, Papageorgiou Andreas, Pascale Enzo

P40: EPSC2018-961

Exoplanet Spectra-photometry with Twinkle
Edwards Billy, Rice Malena, Zingales Tiziano, Tessenyi Marcell, Waldmann Ingo, Tinetti Giovanna, Pascale Enzo, Savini Giorgio, Sarkar Subhajit

P42: EPSC2018-991

An Updated Study of the ARIEL Mission Reference Sample
Edwards Billy, Zingales Tiziano, Sarkar Subhajit, Tinetti Giovanna, Pascale Enzo

P43: EPSC2018-1013

A modular design for the ARIEL on-board electronics
 Focardi Mauro, **Pascale Enzo**, Farina Maria, Di Giorgio Anna Maria, Pace Emanuele, Malaguti Giuseppe, Micela Giuseppina, Morgante Gianluca, Da Deppo Vania, Ferrer Colomé Joseph, Sierra-Roig Carles, Ribas Ignasi, Terenzi Luca, Amiaux Jerome, Cara Christophe, Frericks Martin, Middleton Kevin, Eccleston Paul

P44: EPSC2018-1017

Preparing time-critical observations of transiting exoplanets with follow-up from the ground
Tsiaras Angelos

P45: EPSC2018-1079

The primary mirror of the ARIEL mission: study and development of a prototype
Da Deppo Vania, Pace Emanuele, Morgante Gianluca, Focardi Mauro, Pascale Enzo, Malaguti Giuseppe, Terraneo Marco, Zocchi Fabio, Bianucci Giovanni, Micela Giuseppina

P46: EPSC2018-1113

Generating JWST transiting exoplanet time series data-set

Martin-Lagarde Marine, Lagarde Pierre-Olivier, Gastaud René, Coulais Alain, Cossou Christophe, Morello Giuseppe

P47: EPSC2018-1137

Atmospheric characterisation of directly imaged exoplanets with JWST/MIRI

Danielski Camilla, Baudino Jean-Loup, Lagage Pierre-Olivier, Boccaletti Anthony, Gastaud René, Bézard Bruno

P48: EPSC2018-1155

ARIEL Fine Guidance System Design
 Ottensamer Roland, **Rataj Mirosław**

P49: EPSC2018-1250

The EXoplanet Infrared Climate TElescope (EXCITE)
Pascale Enzo

END OF POSTER PROGRAMME EXO3

Small Bodies (comets, KBOs, rings, asteroids, meteorites, dust)

SB3 The Martian Moons - current knowledge and future exploration

Convener: Konrad Willner

Co-conveners: Masaki Fujimoto; Stephan Ulamec

Chairpersons: S. Ulamec / K. Willner

Attendance time: Thursday, 18:15–20:00

P50: EPSC2018-28

Access to Phobos data at updated version of MExLab Planetary data Geoportal
 Garov Andrey, Karachevtseva Irina, Zubarev Anatoly, Nadezhdina Irina, **Kozlova Natalia**

P51: EPSC2018-321

Simulations of Impact Gardening on Phobos
Hurley Dana M.

P52: EPSC2018-551

Mutual Event Observations of the Martian moons by SRC on Mars Express
Willner Konrad, Ziese Ramona, Oberst Jürgen

END OF POSTER PROGRAMME SB3

SB7 KBOs and Centaurs

Convener: Davide Perna

Co-conveners: Maria Teresa Capria; Sonia Fornasier; Olivier Hainaut; Michele Bannister; Karen Meech; Alan Fitzsimmons

Chairpersons: Davide Perna, Olivier Hainaut

Attendance time: Thursday, 18:15–20:00

P53: EPSC2018-692

An extensive photometric study of the dwarf planet Makemake

Hromakina Tetiana, Belskaya Irina, Krugly Yurii, Shevchenko Vasilij, Ortiz José Luis, Santos-Sanz Pablo, Duffard Rene, Morales Nicolas, Thirouin Audrey, Inasaridze Raguli, Ayvazian Vova, Kvaratskhelia Otar, Perna Davide, Reva Inna, Serebryanskiy Alexander, Romyantsev Vasilij, Sergeyev Sergey, Molotov Igor, Voropaev Viktor, Velichko Sergey

END OF POSTER PROGRAMME SB7

SB8/AB4 Comets after Rosetta - what do we know and what are the new questions (co-organized)

Convener: Matthew Taylor

Co-conveners: Maria Teresa Capria; Bonnie Buratti; Mathieu Choukroun

Attendance time: Thursday, 18:15–20:00

P54: EPSC2018-1039

Modelling the H₂O outgassing from the southern hemisphere of comet 67P/Churyumov-Gerasimenko constrained by ROSINA

Pinzón Rodríguez Olga Janeth, Marschall Raphael, Gerig Selina-Barbara, Theologou Panagiotis, Rubin Martin, Thomas Nicolas and the ROSINA team

P55: EPSC2018-302

Strength of cometary particles on the nano- to micrometer scale. Force-curve analysis of MIDAS data

Klaiber Lea, Blum Jürgen, Gundlach Bastian, Bentley Mark, Mannel Thuid

P56: EPSC2018-357

The Rosetta Science Archive: Enhancing the Science Archive Content

Heather David, Barthelemy Maud, Fraga Diego, O'Rourke Laurence, Taylor Matthew

P57: EPSC2018-382

Global and Local Color Mapping of 67P/Churyumov-Gerasimenko using Rosetta-OSIRIS images

Masoumzadeh Nafiseh, Sierks Holger, Güttler Carsten, Tubiana Cecilia, Deller Jakob and the OSIRIS team

P58: EPSC2018-335

The challenge of fitting dust coma pattern in simulation images compared to Rosetta OSIRIS image data

Gerig Selina-Barbara, Marschall Raphael, Pinzon Olga, Thomas Nicolas and the OSIRIS team

P59: EPSC2018-508

Activity in the Imhotep region on comet 67P/Churyumov - Gerasimenko: dynamics of slow ejecta and landslides

Czechowski Leszek, Kossacki Konrad

P60: EPSC2018-342

The change of the comet's shape by sublimation

Vavilov Dmitrii, Medvedev Yurii, Eggl Siegfried, Zaititskiy Pavel

P61: EPSC2018-317

The "Memory" of the Oort cloud

Fouchard Marc, **Higuchi Arika**, Ito Takashi, Maquet Lucie

P62: EPSC2018-428

Intense Morphological Changes in a dust bank situated at the Khonsu region of 67P/Churyumov-Gerasimenko

Hasselmann Pedro Henrique, Barucci Maria Antonietta, Fornasier Sonia, Bockelee-Morvan Dominique, Feller Clement, Deshapriya Prasanna, Hoang Van and the OSIRIS TEAM

P63: EPSC2018-783

Implications of Rosetta data on cometary dust stream dynamics and their risk for interplanetary space crafts

Marschall Raphael, Jorda Laurent, Dadzie S Kokou, Hartogh Paul, Kühr Ekkehard, Rodrigo Rafael, Thomas Nicolas, Wright Ian

P64: EPSC2018-921

Experimental simulation to analyse geomorphological properties of cometary surfaces with outgassing volatiles

Haack David, Otto Katharina, Pommerol Antoine, Kühr Ekkehard, Jaumann Ralf

P65: EPSC2018-840

Thermophysical analysis of the Imhotep region

Capria Maria Teresa, Zinzi Angelo, Pajola Maurizio, Penasa Luca, Tosi Federico, Capaccioni Fabrizio, Filacchione Gianrico, Ciarniello Mauro, De Sanctis Maria Cristina, Formisano Michelangelo, Longobardo Andrea, Raponi Andrea, Oklay Nilda

P66: EPSC2018-104

On the dust properties and dynamical evolution of the near-Earth Jupiter family comet 41P/Tuttle-Giacobini-Kresak

Pozuelos Romero Francisco J., Jehin Emmanuel, **Moulane Youssef**, Opitom Cyrielle, Manfroid Jean, Benkhaldoun Zouhair, Gillon Michael

P67: EPSC2018-220

High resolution spectroscopy of the unusual comet C/2016 R2 (PanSTARRS)

Opitom Cyrielle, Hutsemékers Damien, Rousselot Philippe, Manfroid Jean, Jehin Emmanuël

P68: EPSC2018-298

A closed self-organizing map of Chury

Grieger Björn, Vincent Jean-Baptiste

P69: EPSC2018-1059

A revised theory of the diamagnetic cavity of comets

Nemeth Zoltan

P70: EPSC2018-1220

Results from two unusual comets C/2016 R2 (Pan-STARRS) and C/2015 V2 (Johnson)
Venkataramani Kumar, Ganesh Shashikiran

P71: EPSC2018-1280

Comet 67P/Churyumov-Gerasimenko mass estimation from CONSERT ranging data
Ye Mao, Barriot Jean-Pierre, Kofman Wlodek, Herique Alain, Rogez Yves, Li Fei, Yan Jianguo

P72: EPSC2018-156

TRAPPIST monitoring of the activity and composition of the small near-Earth Jupiter Family Comets : 41P and 252P

Moulane Youssef, Jehin Emmanuel, Pozuelos Francisco José, Opitom Cyrielle, Manfroid Jean, Benkhaldoun Zouhair, Daassou Ahmed, Gillon Michael

END OF POSTER PROGRAMME SB8/AB4**SB9 Ceres and Vesta**

Convener: Francesca Zambon

Co-conveners: Wladimir Neumann; Eleonora Ammannito; Simone Ieva; Alessandra Migliorini; Daniele Fulvio

Chairperson: K. Otto

Attendance time: Thursday, 18:15–20:00

P73: EPSC2018-710

Basaltic asteroids observed with ESO/XShooter
Migliorini Alessandra, De Sanctis Maria Cristina, Lazzaro Daniela, Barbieri Mauro, Mesa Dino, Lazzarin Monica

P74: EPSC2018-972

The investigation of ridge structures in craters on dwarf planet Ceres

Jakob Clemens, Otto Katharina, Krohn Katrin, Jaumann Ralf, Preusker Frank, Roatsch Thomas, Kersten Elke, Russell Christopher T., Raymond Carol A.

P75: EPSC2018-863

Experimental Assessment of the High Reflectance Pitted Terrains on Vesta

Michalik Tanja, Otto Katharina, Jaumann Ralf, Maturilli Alessandro, Krohn Katrin, Matz Klaus-Dieter, Schröder Stefan E., Stephan Katrin

P76: EPSC2018-846

The unusual V-type asteroid (2579) Spartacus

Oszkiewicz Dagmara, Kryszczyńska Agnieszka, Kankiewicz Paweł, Durech Josef, Marciniak Anna, Moskovitz Nick, Skiff Brian, Geier Stefan, Fedorets Grigori, Włodarczyk Ireneusz, Troianskyi Volodymyr

P77: EPSC2018-651

Unique light scattering at Occator's Faculae on (1) Ceres
Nathues Andreas, Hoffmann Martin, Ripken Joachim, Thangjam Guneshwar, Platz Thomas, Mengel Kurt

P78: EPSC2018-484

Search for water outgassing of (1) Ceres near its perihelion

Rousselot Philippe, Opitom Cyrielle, Jehin Emmanuël, Hutsemékers Damien, Manfroid Jean, Villarreal Michaela N., Li Jian-Yang, Castillo-Rogez Julie, Russell Christopher T., Vernazza Pierre, Marsset Michaël, Roth Lorenz, Dumas Christophe, Yang Bin, Mousis Olivier

P79: EPSC2018-393

Basaltic asteroids: a howardites - eucrites – diogenites view

Mansour Jad Alexandru, Popescu Marcel, de León Julia

P80: EPSC2018-806

Spectral analysis of Ceres subsurface

Galiano Anna, Palomba Ernesto, Longobardo Andrea, De Sanctis Maria C., Carrozzo Filippo G., Raponi Andrea, Ammannito Eleonora, Cloutis Edward A., Raymond Carol A., Russell Christopher T.

END OF POSTER PROGRAMME SB9**SB10 Interplanetary and Interstellar Dust**

Convener: Ralf Srama

Co-convener: Harald Krüger

Attendance time: Thursday, 18:15–20:00

P81: EPSC2018-165

Space dust and Earth's temperature

Murtazov Andrey

P82: EPSC2018-981

Non-Gravitational reorganisation of the dust tails of C/2006 P1 and C/2011 L4

Price Oliver, Jones Geraint

P83: EPSC2018-414

Visible-Near Infrared micro-spectroscopy of interplanetary dust particles

Djouadi Zahia, Maupin Romain, Brunetto Rosario

P84: EPSC2018-549

Apparent hyperbolic meteoroid orbits

Hajdukova Maria, Sterken Veerle, Wiegert Paul

P85: EPSC2018-1279

Mineral dust in the Saturnian system

Fischer Christian, Postberg Frank, Altobelli Nicolas, Nölle Lenz, Albin Thomas

END OF POSTER PROGRAMME SB10

SB11/MD7 Models of atmospheres and exospheres, surfaces, and interiors of small bodies (co-organized)

Convener: Michelangelo Formisano

Co-conveners: Andrea Raponi; Audrey Vorburger

Attendance time: Thursday, 18:15–20:00

P86: EPSC2018-779

ESA Micro-meteoroid models applied to exosphere formation of the Jovian icy moons

Lorente Rosario, Vallat Claire, Altobelli Nicolas, Schmidt Juergen, Grotheer Emmanuel, Matilainen Katja

P87: EPSC2018-267

Thermal analysis of boulders on the 67P/Churyumov-Gerasimenko comet

Cambianica Pamela, Naletto Giampiero, Cremonese Gabriele, Lucchetti Alice, Pajola Maurizio, Simioni Emanuele, Massironi Matteo, Penasa Luca, Ferrari Sabrina

P88: EPSC2018-375

Modelling a wheel in the regolith of a small body - a Project Chrono study

Klar Lennart, Murdoch Naomi, Tardivel Simon

END OF POSTER PROGRAMME SB11/MD7

SB15 Interpretation of observational data using spectro-polarimetric techniques

Convener: Karri Muinonen

Co-conveners: Maria Gritsevich; Alberto Cellino

Chairperson: Timo Väisänen

Attendance time: Thursday, 18:15–20:00

P89: EPSC2018-1259

Reflectance measurements of satellite materials

Penttilä Antti, Wilkman Olli, Lahtinen Sonja, Gritsevich Maria, Escobar-Cerezo Jesús, Muinonen Karri

P90: EPSC2018-1146

Interpolating light scattering properties using spiral curve on the sphere surface

Siipola Janne, Penttilä Antti, Guanglang Xu Guanglang, Muinonen Karri

END OF POSTER PROGRAMME SB15

Laboratory and Field Investigations

LFI1 Earth Analogues: state of the art and future

Convener: Felipe Gómez

Co-conveners: Barbara Cavalazzi; Akos Kereszturi; Gernot Groemer; Bernard Schmitt; Mohamed Ramy El-Maarry; Nikolaus J. Kuhn; Jessica Flahaut

Chairperson: Akos Kereszturi

Attendance time: Thursday, 18:15–20:00

P91: EPSC2018-44

Molecular evidences of life in a poly-extreme environment in Ethiopia, the Dallol Hot Springs area, based on lipidic biomarkers

Carrizo Daniel, Sánchez-García Laura, Gómez Felipe

P92: EPSC2018-52

Analysis of Mars relevant minerals - suggestions for next missions

Kapui Zsuzsanna, **Kereszturi Ákos**, Kesjár Dóra, Király Csilla, Kovács Ivett, Szalai Zoltán, Zanon Vittorio

P93: EPSC2018-297

MA_MISS and WISDOM on ExoMars: building synergies through fieldwork

Frigeri Alessandro, De Sanctis Maria Cristina, Altieri Francesca, Ciarletti Valerie, Plettemeier Dirk, Ammannito Eleonora, De Angelis Simone, Herve Yann

P94: EPSC2018-466

Roughness of Surfaces in the Ethiopian Danakil from Remote Handheld Image Surveys

Dame Rudger H., Radebaugh Jani, Lorenz Ralph D., Hudson Samuel M.

P95: EPSC2018-1098

The loss of negative polarization after depletion of sub-micron-sized particles in regolith simulant

Escobar-Cerezo Jesús, Muñoz Olga, Moreno Fernando, Guirado Daniel, Gómez Martín Juan Carlos, Goguen Jay D., Garboczi Edward J., Chiaramonti Ann N., Lafarge Thomas, West Robert A., Väisänen Timo, Martikainen Julia, Penttilä Antti, Muinonen Karri

P96: EPSC2018-105

Intracrystalline geothermometers validated on synthetic clino and orthopyroxenes and applied to a terrestrial analogue

Murri Mara, Cámara Fernando, Adam John, Domeneghetti Maria Chiara, Alvaro Matteo

END OF POSTER PROGRAMME LFI1

LFI2 The distributed planetary simulation and sample analysis facilities

Convener: Jörn Helbert

Co-conveners: Felipe Gómez; Gareth Davies

Chairperson: Gareth Davies

Attendance time: Thursday, 18:15–20:00

P97: EPSC2018-58

Research using a European Planetary Simulation Facility

Merrison Jonathan, Iversen Jens Jacob, Rasmussen Keld R.

P98: EPSC2018-92

Emissivity and reflectance spectra of sulfide-bearing samples: new constraints for the hermean surface composition.

Serventi Giovanna, **Carli Cristian**, Maturilli Alessandro, Ferrari Sabrina, Sgavetti Maria, Secchiari Arianna, Montanini Alessandra, Helbert Jörn

P99: EPSC2018-288

The Center for Microbial Life Detection

Moissl-Eichinger Christine, Koskinen Kaisa

P100: EPSC2018-712

Spectral characterization of a suite of well-characterized bulk soils from the ultraviolet to the far infrared at the Planetary Emissivity Laboratory, DLR Berlin

Donaldson Hanna Kerri, Bowles Neil, Greenhagen Benjamin, Helbert Jörn, Maturilli Alessandro

P101: EPSC2018-714

Experimental and modelled mid-infrared spectra of olivine: simulations of extreme temperature conditions

Stangarone Claudia, Maturilli Alessandro, Helbert Jörn

P102: EPSC2018-765

Evolution of the thermal properties of ocean aqueous solutions from Archean chemical compositions to modern seawaters

Muñoz-Iglesias Victoria, Prieto-Ballesteros Olga

P103: EPSC2018-906

CRPG facilities available through Europlanet 2020 RI

Cloquet Christophe, Galy Albert

P104: EPSC2018-909

Emissivity and reflectance measurement at low and high T of different hydrous salts: a tool to study the surface of the icy planets

Comodi Paola, Fastelli Maximiliano, Zucchini Azzurra, Maturilli Alessandro

P105: EPSC2018-323

The distributed planetary simulation and sample analysis facility

Helbert Jörn, Davies Gareth

P106: EPSC2018-1221

Development of the Experimental Set-up for Lunar Dust Particles Investigation and Instruments calibrations

Lyash Andrew, Kuznetsov Ilia, Zakharov Alexander, Dolnikov Gennady, Shashkova Inna

P107: EPSC2018-676

Tracing metabolic pathways of Archean microbial community's

Nabhan Sami

END OF POSTER PROGRAMME LFI2

LFI3 Cometary, asteroidal and meteoritic materials in laboratory

Convener: Gabriele Arnold

Co-conveners: Eric Quirico; Simone De Angelis; Marco Ferrari; Rosario Brunetto

Chairperson: Marco Ferrari

Attendance time: Thursday, 18:15–20:00

P108: EPSC2018-152

Occurrence of graphite and sinoite in EL6 chondrite Eagle and Pillistfer

Mészárosová Noemi, Skála Roman

P109: EPSC2018-1163

UPLC-MS analysis of organic matter in interstellar/cometary ice analogs

Poinot Pauline, Geffroy Claude, Danger Grégoire

P110: EPSC2018-418

Petrography and mineral chemistry of the ordinary chondrite NWA 11743: the first meteorite classified in a Greek-based laboratory

Pantazidis Avgoustos, Baziotis Ioannis, Ferrière Ludovic

P111: EPSC2018-431

Volatiles in merrillite from martian meteorite Tissint

Baziotis Ioannis, Anand Mahesh, Zhao Xuchao, Franchi Ian

P112: EPSC2018-456

VIS-IR spectroscopy of Alais CI chondrite by using the SPectral IMager (SPIM)

Manzari Paola, **De Angelis Simone**, De Sanctis Maria Cristina

P113: EPSC2018-883

Raman and XRF analysis of the new NWA 11273 Lunar meteorite

Huidobro Jennifer, **Aramendia Julene**, Madariaga Juan Manuel

P114: EPSC2018-99

The Stirling Planetary Ices Laboratory within the Stirling Centre for Astromaterials Research

Hagermann Axel, Kaufmann Erika, Attree Nicholas, Schroeder Christian, Tait Alastair

P115: EPSC2018-179

Laboratory developments to support space missions exploring the Solar System

Danger Gregoire, Abou Mrad Ninette, Fresneau Aurelien, Duvernay Fabrice, d'Hendecourt Louis

P116: EPSC2018-536

Simulation chamber for the characterization of the bi-directional reflectance of cold planetary surfaces environments.

Rosas Ortiz Yaquelin Miriam, Helbert Jorn, Maturilli Alessandro, Lehmann Marc

END OF POSTER PROGRAMME LFI3

Outreach, Education and Policy

OEP2 Planetary science as an example of Science communication in society

Convener: Julie Nekola Novakova

Co-conveners: Eleni Chatzichristou; Rosa Doran

Chairperson: Eleni Chatzichristou

Attendance time: Thursday, 18:15–20:00

P119: EPSC2018-89

OpenPlanetary: An Open Science Community and Framework for Planetary Scientists and Developers

Manaud Nicolas, Pio Rossi Angelo, Million Chase

P120: EPSC2018-336

Planetary Science Communication through Public Events

Musiol Stefanie, Balthasar Heike, Rosenberg Heike

P121: EPSC2018-514

Aspects of teaching Visual Basic for Application for students of natural scientific specialties

Petrova Natalia, Sitnikov Sergey

P122: EPSC2018-485

PRIME: a REXUS project to demonstrate a miniature free falling unit for plasma measurement

Enengl Florine, Franzén Anton, Alonso Pinar Alberto, Al-Hamarnah Ramez, Banerjee Moinak, Bradford Hopps Byron, Dutta Chaudhury Nandan, Von Gegerfelt Carl-Johan, **Gierlich Timo**, Gürsac Isabelle, Usman Muhammad, Kallianpur Akshay, Kåbjörn Anton, Lindblad Nyman Erik, Petek Martin, Rorro Federico, Sajaia Elene, Sishtla Chaitanya Prasad, Tolis Christos, Ivchenko Nickolay, Tibert Gunnar

P123: EPSC2018-503

Outreach activities of UniverSciEl association.

Fayon Lucile, Belgacem Ines

P124: EPSC2018-772

Participation of women scientists in ESA solar system missions: an historical trend

Piccialli Arianna, Rathbun Julie A., Vandaele Ann Carine, Altieri Francesca, Määttänen Anni, Milillo Anna, Rotundi Alessandra, Rengel Miriam, Drossart Pierre

P125: EPSC2018-970

Involving School Students in Exoplanet Research Through the Twinkle Space Mission - ORBYTS

Dunn William, Chubb Katy, Tessenyi Marcell, Heward Anita, Tennyson Jonathan, James Tomas, Darby Daniel, Niculescu-Duvaz Maria, Meyer Romain, Holdship Jonathan, Baker Jack, Smutna Jana, Virdee Mala, Brannan Sian, Tinetti Giovanna, Sousa-Silva Clara, Mckemmish Laura, Gorman Maire, Rivlin Tom

P126: EPSC2018-1140

Developing an Arabic Equivalent of the Planetary Nomenclature: a draft for a standardized system

Ettahri Mohamed amine

P127: EPSC2018-959

Digital museum collection to maintain heritage in planetary research

Kolenkina Maria, Kozlova Natalia, Garov Andrey, Karachevtseva Irina

P128: EPSC2018-675

Stories of Tomorrow: first year of implementation

Tyszka Steph, Doran Rosa, Saraiva José

P129: EPSC2018-403

Europlanet - Impact of outreach activities to date and looking ahead to a sustainable future

Heward Anita, Barrosa Mariana, Giacomini Livia

P130: EPSC2018-784

Europlanet Policy Activities toward FP9

Giacomini Livia, Heward Anita, Mason Nigel

P131: EPSC2018-1272

Europlanet 2020 RI Outreach Innovation and Communication Training Workshops

Chatzichristou Eleni, Daglis Ioannis, Heward Anita, Tautvaisiene Grazina, Russo Pedro, Doran Rosa

P132: EPSC2018-1268

ExoWorlds Spies: a project for public involvement in exoplanet research

Kokori Anastasia, Tsiaras Angelos

END OF POSTER PROGRAMME OEP2

OEP6 Astrobiology Teaching, Outreach and Dissemination

Convener: Klara Anna Capova

Co-conveners: Elias Chatzitheodoridis

Chairperson: Elias Chatzitheodoridis

Attendance time: Thursday, 18:15–20:00

P133: EPSC2018-695

Attitudes towards the scientific search for extra-terrestrial life among Swedish high school and university students

Persson Erik, Capova Klara Anna, Li Yuan

P134: EPSC2018-134

Astrobiology and Society in Europe Today

Capova Klara Anna, Persson Erik, Milligan Tony, Duner David

END OF POSTER PROGRAMME OEP6

OEP7 Policy Towards the International Lunar Decade & Planetary exploration outreach through Arts

Convener: Bernard Foing

Co-convener: Vidvuds Beldavs

Chairperson: Germaine van der Sanden, Bernard Foing

Attendance time: Thursday, 18:15–20:00

P135: EPSC2018-915

A possibility to teach planetary and space science by increasing enthusiasm: the school year of 2018-2019 covers as 50 years anniversary of the preparations to lunar landing in 1969 July by NASA

Bérczi Szaniszló, Ságodi Ibołya

P136: EPSC2018-924

Astrojots: Explaining space and its exploration with cartoons

Jones Geraint

P137: EPSC2018-1227

Pop Culture and Planetary Studies

James Matthew, Foing Bernard

P138: EPSC2018-1073

Economic impact of the International Lunar Decade

Beldavs Vidvuds, **Sommers Jeffrey**

P139: EPSC2018-616

Lunar electrical power utility: Key to lunar development

Beldavs Vidvuds, **Vjaters Janis**, Dunlop David, Crisafulli Jim, Foing Bernard

P140: EPSC2018-1038

Ecosystem design and engineering: Key to permanent return to the Moon

Beldavs Vidvuds, **Ubelis Arnold**, Foing Bernard

END OF POSTER PROGRAMME OEP7

Terrestrial Planets

TP3/AB5 Mars Express: 15 years of hard work and discoveries (co-organized)

Convener: Dmitrij Titov

Co-conveners: Olivier Witasse;

Francisco González-Galindo; Daniela Tirsch;

Anni Määttänen

Attendance time: Thursday, 18:15–20:00

P141: EPSC2018-123

Exploring the Atmosphere of Mars with Remote Observations: Activities in Japan for the Belgium-Japan partnership (AMAVERO)

Kasaba Yasumasa, Nakagawa Hiromu, Sagawa Hideo, Kuroda Takeshi, Imamura Takeshi, Kasai Yasuko, Yamazaki Atsushi, Sato Takao, Maezawa Hiroyuki, Taguchi Makoto, Kashimura Hiroki, Murata Isao, Terada Naoki, Sakanoi Takeshi, Vandaele Ann Carine, Aoki Shohei, Robert Severine, Wilquet Valerie, Mahieux Arnaud, Coheur Pierre-François and the AMAVERO team

P142: EPSC2018-124

Spectral inversion of OMEGA/MEx limb observations considering multiple scattering

Mahieux Arnaud, Aoki Shohei, Toyoka Masashi, Nakagawa Hiromu, Iwabuchi Hironobu, Kasaba Yasumasa, Sindoni Giuseppe, Geminale Anna, Oliva Fabrizio, D'Aversa Emiliano, Altieri Francesca, Bellucci Giancarlo, Vandaele Ann Carine, Gondet Brigitte, Bibring Jean-Pierre, Vincendon Mathieu, Wolff Michael

P143: EPSC2018-207

Modification of the retrieval tool JACOSPAR for the Martian limb observations

Toyooka Masashi, Mahieux Arnaud, Aoki Shohei, Iwabuchi Hironobu, Kasaba Yasumasa, Nakagawa Hiromu

P144: EPSC2018-242

Analysis of spectral orbital and laboratory data to further constrain Martian habitable environments

Alemanno Giulia, Maturilli Alessandro, Helbert Joern, D'Amore Mario, Varatharajan Indhu, Noack Lena

P145: EPSC2018-313

More and still unexploited atmospheric OMEGA/MEx observations

Gondet Brigitte, **Bibring Jean-Pierre**

P146: EPSC2018-329

15 years of fascinating Mars press images and movies from the High Resolution Stereo Camera on Mars Express, prepared at Freie Universität Berlin

Musiol Stefanie, Balthasar Heike, Dumke Alexander, Gross Christoph, Neu Dominik, Schreiner Björn, Jaumann Ralf

P147: EPSC2018-352

Topographic mapping of the Mars MC quadrangles using HRSC data

Kersten Elke, Gwinner Klaus, Michael Gregory, Bostelmann Jonas, Dumke Alexander, Wählisch Marita, Jaumann Ralf

P148: EPSC2018-552

High resolution spectra of CO₂ ice based on SPICAM/MEX observations

Lomakin Alexander, Fedorova Anna, Korablev Oleg, Montmessin Franck, Lacombe Gaetan, Lefèvre Franck

P149: EPSC2018-896

Release of 12+ years of MEX-MARSIS Subsurface data in the ESA's Planetary Science Archive

Grotheer Emmanuel, Besse Sebastien, Vallat Claire, Barthelemy Maud, Coia Daniela, Costa Marc, De Marchi Guido, Fraga Diego, Heather Dave, Lim Tanya, Martinez Santa, Bentley Mark, Martin Patrick, Arviset Christophe, Barbarisi Isa, DocasalRuben, MacFarlane Alan, Rios Carlos, Saiz Jaime, Vallejo Fran

P150: EPSC2018-1044

MARSIS Observations of Phobos: Preliminary Results of the Search for Underground Reflectors

Hegler Sebastian, Plettemeier Dirk, Chicchetti Andrea, Nenna Carlo, Plaut Jeffrey, Noschese Raffaella, Ivanov Anton, Herique Alain, Orosei Roberto

END OF POSTER PROGRAMME TP3/AB5

TP7/SB20 Impact processes on terrestrial planets and other planetary bodies (co-organized)

Convener: Elena Martellato

Co-conveners: Natalia Artemieva; Kai Wünnemann

Chairpersons: E. Martellato, N. Artemieva, K. Wünnemann

Attendance time: Thursday, 18:15–20:00

P151: EPSC2018-889

Testing impact numerical model setups for simple craters
Prieur Nils C., Rolf Tobias, Werner Stephanie

P152: EPSC2018-96

Experimental Investigation of the Formation of Complex Craters

Martellato Elena, Wünnemann Kai, Dörfler Matthias, Schuster Bennet, Kenkmann Thomas

P153: EPSC2018-133

Shock alteration of geological minerals from impact cratering experiments

Harriss Kathryn, Burchell Mark

P154: EPSC2018-1111

An integrated CL, SEM, and optical microscopy study of carbonate impact melts in the Ries suevites

Hamann Christopher, Hecht Lutz, Bläsing Saskia, Siegert Sanni

P155: EPSC2018-957

Identification of kerogen by SCA device in materials produced by the impact of an extraterrestrial material on Earth

Gomez-Nubla Leticia, **Aramendia Julene**, Torre-Fdez Imanol, Ruiz-Galende Patricia, Fdez-Ortiz de Vallejuelo Silvia, Madariaga Juan Manuel

P156: EPSC2018-1248

Impactor material in new lunar meteorite NWA 10989

Morland Zoe, Joy Katherine

P157: EPSC2018-261

¹⁴C dating of small impact craters on Earth
Losiak Anna

P158: EPSC2018-1087

Kärdla impact crater - transitional from simple to complex based on reflection seismics

Jõelegt Argo, **Plado Jüri**, Sarv Kaidi

P160: EPSC2018-791

Summanen, the twelfth meteorite impact structure in Finland

Pesonen Lauri J., Kreitsmann Timmu, Hietala Satu, Lerssi Jouni, Nenonen Jari, **Plado Jüri**

P161: EPSC2018-1049

Origin of melt heterogeneities in Ries impact breccia

Siebert Susann, Hecht Lutz

P162: EPSC2018-833

Impact melt boulder from northern Sweden from an unknown source

Kreitsmann Timmu, Hietala Satu, Soukka Tapio, **Plado Jüri**, Nenonen Jari, Pesonen Lauri J.

P163: EPSC2018-316

(S)TEM analysis of quartz-coesite relations in impact ejecta from the Australasian tektite strewn field

Campanale Fabrizio, Mugnaioli Enrico, Gemmi Mauro, Lee Martin R., Glass Billy P., Folco Luigi

P164: EPSC2018-327

Sulfide globules in Muong Nong-type tektites from Laos

Křížová Šárka, Skála Roman, Ackerman Lukáš, Žák Karel, Magna Tomáš

P165: EPSC2018-835

Variability within and between large bodies of Muong Nong-type tektites in Laos

Skála Roman, Křížová Šárka, Matoušková Šárka, Trnka Milan, Žák Karel

END OF POSTER PROGRAMME TP7/SB20

Terrestrial Planets

TP3/AB5 Mars Express: 15 years of hard work and discoveries (co-organized)

Convener: Dmitrij Titov

Co-conveners: Olivier Witasse;

Francisco González-Galindo; Daniela Tirsch;

Anni Määttänen

Lecture Room: Saturn

10:45–12:30

10:45–11:00: EPSC2018-895

Mars Express: 15 years of hard work and discoveries

Titov Dmitrij, Bibring Jean-Pierre, Cardesin Alejandro, Duxbury Thomas, Forget Francois, Giuranna Marco, González-Galindo Francisco, Holmström Mats, Jaumann Ralf, Määttänen Anni, Martin Patrick, Montmessin Franck, Orosei Roberto, Pätzold Martin, Plaut Jeffrey, Team Mex Sgs

11:00–11:30: EPSC2018-1096

HRSC at Mars: 15 years of research (and counting) (solicited talk)

Hauber Ernst, Jaumann Ralf and the HRSC Team

11:30–11:45: EPSC2018-912

The Roles that HRSC Digital Terrain Models Have in Supporting Martian Polar Science

Putri Alfiah Rizky Diana, Muller Jan-Peter, Sidiropoulos Panagiotis, Walter Sebastian H. G., Michael Greg G.

11:45–12:15: EPSC2018-362

Changing the paradigm of Mars history and evolution (solicited talk)

Bibring Jean-Pierre

12:15–12:30: EPSC2018-49

A New View of Mars Aqueous Alteration: First Results from The Mars Orbital Catalogue of Chemical Alteration Signatures (MOCCAS)

Carter John

12:30 Lunch break

14:00–15:30

14:00–14:15: EPSC2018-561

Global distribution of mafic minerals abundances and associated chemical composition at Mars: a legacy of OMEGA

Riu Lucie, Poulet François, Gondet Brigitte, Langevin Yves, Carter John, Bibring Jean-Pierre

14:15–14:45: EPSC2018-474

Couplings between the lower and upper atmosphere of Mars (solicited talk)

Montmessin Franck, Korablev Oleg, Lefèvre Franck, Fedorova Anna, Trokhimovskyi Alexander, Bertaux Jean-Loup, Chaufray Jean-Yves, Chaffin Michael, Schneider Nicholas

14:45–15:00: EPSC2018-337

Clouds in the night side of Mars: an analysis using Mars Express VMC

Hernandez Bernal Jorge, Sánchez Lavega Agustín, del Río Gaztelurrutia Teresa, Hueso Ricardo, Cardesin Moinelo Alejandro, de Burgos Sierra Abel, Titov Dmitri, Wood Simon, Dias Almeida Miguel

15:00–15:15: EPSC2018-960

Construction and use of a 4D cloud database derived from MEX/OMEGA data - Cloud life cycle over polar regions

Szantai Andre, Wolff Michael, Audouard Joachim, Forget Francois, Madeleine Jean-Baptiste, Pottier Alizee, Millour Ehouarn, Gondet Brigitte, Langevin Yves, Bibring Jean-Pierre

15:15–15:30: EPSC2018-941

Inversion of vertical profiles of CO₂ in the Mars daylight thermosphere from its non-thermal emission at 4.3 μ m

Jiménez-Monferrer Sergio, López-Valverde Miguel Ángel, Funke Bernd, López-Puertas Manuel, González-Galindo Francisco, García-Comas Maya

15:30 Coffee break

16:15–18:15

16:15–16:45: EPSC2018-506

Mars Express characterization of the Martian ionosphere (solicited talk)

González-Galindo Francisco, Kopf Andrew, Pätzold Martin, Gurnett Donald, Morgan Dave, Němec František, Peter Kerstin, Sánchez-Cano Beatriz, Tellman Silvia, Witasse Olivier

16:45–17:15: EPSC2018-512

15 years in the induced magnetosphere of Mars: ion escape and all around (solicited talk)

Barabash Stas, Holmström Mats

17:15–17:30: EPSC2018-383

Ions accelerated by sounder-plasma interaction as observed by Mars Express

Voshchepynets Andrii, Barabash Stas, Holmstrom Mats, Ramstad Robin, Stenberg Wieser Gabriella, Frahm Rudy, Kopf Andrew, Gurnett Donald

17:30–17:45: EPSC2018-966

Mars Express Science Ground segment evolution along 15 years of mission, new challenges and future perspectives

Marín-Yaseli de la Parra Julia, Cardesin Alejandro, Merritt Donald, Castillo Manuel, Breittellner Michel, Costa i Sitjà Marc, Grotheer Emmanuel, Martin Patrick, Titov Dimitri

17:45–18:00: EPSC2018-1048

Mars Express going Gyroless - Impact on science operations systems

Muñiz Carlos, Cardesin Alejandro, Marin-Yaseli de la Parra Julia, Costa i Sitjà Marc, Merritt Donald, Castillo Manuel, Breittellner Michel, Grotheer Emmanuel, Martin Patrick, Nespoli Federico, Kueppers Michael, Buenadicha Guillermo, Geiger Bernhard, Titov Dimitri

18:00–18:15: EPSC2018-394

Coordinated Science Opportunities around Mars: Mars Express and ExoMars 2016 Trace Gas Orbiter
Cardesin-Moinelo Alejandro, Geiger Bernhard, Costa Sitja Marc, Titov Dmitri, Svedhem Hakan, Breitfellner Michel, Castillo Manuel, Marin-Yaseli Julia, Martin Patrick, Merritt Donald, Grotheer Emmanuel and the ExoMars Science Operations Centre

END OF ORAL PROGRAMME TP3/AB5

TP7/SB20 Impact processes on terrestrial planets and other planetary bodies (co-organized)

Convener: Elena Martellato

Co-conveners: Natalia Artemieva; Kai Wünnemann

Lecture Room: Venus

08:30–10:15

Chairpersons: Kai Wünnemann, Natasha Artemieva

Large basins: formation and environmental effects

08:30–08:45: EPSC2018-871

Impact-Induced Melting by Giant Collision Events
Manske Lukas, Wünnemann Kai, Nakajima Miki, Burger Christoph, Plesa Ana-Catalina

08:45–09:00: EPSC2018-776

Numerical modelling of giant collisions - The Moon-forming impact event
Güldemeister Nicole, Manske Lukas, Wünnemann Kai

09:00–09:15: EPSC2018-755

The South-Pole Aitken basin formation and its effects on the melting activity in the lunar mantle
Padovan Sebastiano, Breuer Doris, Manske Lukas, Martellato Elena, Plesa Ana-Catalina, Ruedas Thomas, Schwinger Sabrina, Tosi Nicola

09:15–09:30: EPSC2018-224

Formation of impact basins on the moon - insights from numerical modeling, gravity and remote sensing data
Lompa Tomke, Wünnemann Kai, Zhu Meng-Hua

09:30–09:45: EPSC2018-1175

Post Impact Hydrothermal Activity. Thermodynamic Simulations on the Chicxulub Crater and Habitability Assessment.
Christou Evangelos, Bach Wolfgang

09:45–10:00: EPSC2018-8

Regolith mixing by impacts: Lateral diffusion of basin melt
Liu Tiantian, Michael Greg, Engelmann Juliane, Wünnemann Kai, Oberst Jürgen

10:00–10:15: Discussion**10:15 Coffee break****10:45–12:30**

Chairpersons: Luigi Folco, Nicole Güldemeister

Impacts: shock features in nature and experiments

10:45–11:00: EPSC2018-213

Direct quartz-coesite transformation in shocked sandstones from Kamil Crater (Egypt)
Folco Luigi

11:00–11:15: EPSC2018-265

Constraining shock wave propagation direction from planar microstructures in quartz and feldspar
Pittarello Lidia, Ferrière Ludovic, Osinski Gordon R.

11:15–11:30: EPSC2018-709

Spherical shock experiments with Chelyabinsk meteorite: The experiment and textural gradient
Petrova Evgeniya, Grokhovsky Victor, Kohout Tomas, Muftakhetdinova Razilia, Yakovlev Grigoriy

11:30–11:45: EPSC2018-827

Spherical shock experiments with Chelyabinsk meteorite: reflectance spectra changes with increasing shock
Kohout Tomas, Petrova Evgeniya, Yakovlev Grigoriy, Grokhovsky Victor, Penttilä Antti, Maturilli Alessandro

11:45–12:00: EPSC2018-212

Shock-darkening in a shock-recovered ordinary chondrite? Numerical model of the experiment
Moreau Juulia-Gabrielle, Kohout Tomas, Wünnemann Kai

12:00–12:15: EPSC2018-986

Impact vaporization and condensation of planetary materials in laser irradiation experiments
Hamann Christopher, Hecht Lutz, Schäffer Sebastian, Heunoske Dominic, Salge Tobias, Greshake Ansgar, Garbout Amin, Osterholz Jens

12:15–12:30: Discussion**12:30 Lunch break****14:00–15:30**

Chairpersons: Elena Martellato, Lidia Pittarello

Impacts: from the projectile to the final crater morphology

14:00–14:15: EPSC2018-299

Impact flashes on the Moon.
Avdellidou Chrysa

14:15–14:30: EPSC2018-102

Misleading projectile determination by Cr/Ni and Ni/Co ratios of Australasian microtektites and impact melt rocks
Schmidt Gerhard

14:30–14:45: EPSC2018-955

Crater depth statistics: constraining obliteration rates from secondary clusters of Mojave crater
Breton Sylvain, Quantin-Nataf Cathy, Pan Lu, Bodin Thomas, Bras Erwan

14:45–15:00: EPSC2018-139

Influence of Target Properties on Ejecta Scaling Relationships

Luther Robert, Wünnemann Kai

15:00–15:15: EPSC2018-292

Combined remote sensing analyses and landscape evolution modeling of the terrestrial Bosumtwi crater

Wulf Gerwin, Hergarten Stefan, Kenkmann Thomas

15:15–15:30: EPSC2018-1040

Formation of nanoscopic Lingunite and alternating augite-plagioclase wedges at Lockne impact crater, Sweden

Agarwal Amar, Reznik Boris, Kontky Agnes

END OF ORAL PROGRAMME TP7/SB20

Lunar Science and Exploration

LSE6/MTI10 Science and Innovation for the Moon Village and beyond (co-organized)

Convener: Bernard Foing

Co-conveners: Chrysa Avdellidou;

Germaine Van der Sanden; Christiane Heinicke

Lecture Room: Mercury

14:00–15:45**14:00–14:15: EPSC2018-155**

Telecontrol of ExoGeoLab Lander

Dubois Louis

14:15–14:30: EPSC2018-258

Four Centuries of European Planetary Mapping: Towards Mapping for New Human Surface Operations

Hargitai Henrik, Pitura Mateusz

14:30–14:45: EPSC2018-592

Dealing with a physically disabled crew member: Lessons learned by the crew of the ICares-1 mission

Heinicke Christiane, Kaczmarzyk Marcin, Perycz Malgorzata, Wasniowski Aleksander

14:45–15:00: EPSC2018-639

EuroMoonMars 2018 Workshop: Hands-on demonstration and practice before analogue simulations.

Dubois Louis, Clavé Élise, Sanden Germaine, **Foing Bernard**

15:00–15:15: EPSC2018-819

Mission to the Moon and the return to Apollo 17

Kriening Torsten

15:15–15:30: EPSC2018-1197

On the need to consider the dynamics of future governmental and cooperate space travel and their effects on the non-biological environment in the planetary system

Fritz Jörg

15:30–15:45: Flash poster presentation & discussion

END OF ORAL PROGRAMME LSE6/MTI10

Exoplanets and Origins

EXO1 Observations and modelling of exoplanet atmospheres, interiors and orbits

Convener: Giovanna Tinetti

Co-conveners: Olivia Venot; Ravit Helled

Lecture Room: Neptune

08:30–10:00**08:30–08:40: EPSC2018-803**

Effect of geologically-constrained environmental parameters on the atmosphere and biosphere of early exo-Earths

Gebauer Stefanie, Grenfell John Lee, Lehmann Ralph, Rauer Heike

08:40–08:50: EPSC2018-705

Stellar and Exoplanetary Atmospheres Bayesian Analysis Simultaneous Spectroscopy

Morello Giuseppe, Tsiaras Angelos, Howarth Ian, Lagage Pierre-Olivier

08:50–09:00: EPSC2018-862

Correcting HIRES radial-velocities for systematic errors

Tal-Or Lev, Trifonov Trifon, Zucker Shay, Mazeh Tsevi, Zechmeister Mathias

09:00–09:10: EPSC2018-980

Mapping exoplanet clouds with high-dispersion spectro-polarimetry

García Muñoz Antonio

09:10–09:20: EPSC2018-987

Water detection in the near infrared in HD 189733 b with CARMENES

Sánchez López Alejandro, Alonso Floriano Francisco Javier, Snellen Ignas, López Puertas Manuel, Nagel Evangelos, Hoeijmakers Jens, Bauer Florian, Amado Pedro, Caballero Jose Antonio, Quirrenbach Andreas, Ribas Ignasi, Reiniers Ansgar

09:20–09:30: EPSC2018-818

Coupling the internal and orbital evolution of close-in terrestrial exoplanets

Walterova Michaela, Behoukova Marie

09:30–09:40: EPSC2018-1008

The legacy of HST/WFC3: a prototype for future population studies of exoplanets

Tsiaras Angelos

09:40–09:50: EPSC2018-1026

Global Chemistry and Thermal Structure Models for the Hot Jupiter WASP-43b and Predictions for JWST

Venot Olivia, Crouzet Nicolas, Carone Ludmila, Tremblin Pascal, Parmentier Vivien, Moses Julianne, Cubillos Patricio, Blecic Jasmina, Molliere Paul, Kreidberg Laura, Stevenson Kevin B.

09:50–10:00: EPSC2018-1083

Atmospheric characterisation of exoplanets via broadband color filters on the PLATO 2.0 mission

Grenfell John Lee, Godolt Mareike, Cabrera Juan, Carone Ludmila, Garcia Munoz Antonio, Kitzmann Daniel, Rauer Heike

10:00 Coffee break**10:45–11:45****10:45–10:55: EPSC2018-1149**

On the exospheres of the rocky planets HD219134b and c

Lichtenegger Herbert, Vidotto Aline, Fossati Luca

10:55–11:05: EPSC2018-1115

Ultra-short Period Rocky Super-Earths

Malavolta Luca and the HARPS-N GTO Science Team and Collaborators

11:05–11:15: EPSC2018-1191

Transits in the Solar System and the Composition of the Exoplanet Atmospheres

Laine Pauli

11:15–11:25: EPSC2018-1199

Exogenic Volatiles in the Extended Exospheres of Extrasolar Giant Planets

Oza Apurva V., Johnson Robert E., Arras Phil, Thomas Nicolas, Schmidt Carl, Demory Brice-Olivier, Mordasini Christoph, Wyttenbach Aurelien, Schneider Nick, Bourrier Vincent, Allart Romain, Ehrenreich David, Dubois David, Saxena Prabal

11:25–11:35: EPSC2018-1204

The ExoMol Atlas of Molecular Opacities

Yurchenko Sergey, Tennyson Jonathan, Chubb Katy, Mant Barry, Coles Phillip, Owens Alec, Jagoda Pawel, Polyansky Oleg

11:35–11:45: EPSC2018-1217

A GIANO@TNG view of the atmosphere of transiting hot jupiters

Giacobbe Paolo, Bonomo Aldo, Sozzetti Alessandro, Guilluy Gloria

END OF ORAL PROGRAMME EXO1**Astrobiology****AB1 Astrobiology**

Convener: John Robert Brucato

Co-convener: Felipe Gómez

Lecture Room: Uranus

14:00–15:45**14:00–14:15: EPSC2018-278**

A hydrothermal-sedimentary origin of life scenario

Westall Frances

14:15–14:30: EPSC2018-63

Astrobiological interest of deep subsurface geomicrobiology

Escudero Cristina, Oggerin Monike, Rodriguez Nuria, **Amils Ricardo**

14:30–14:40: EPSC2018-248

Microbial growth in simulated martian environments

Ramkissoon Nisha K, Macey Michael C, Schwenzer Susanne P, Pearson Victoria K, Olsson-Francis Karen

14:40–14:50: EPSC2018-356

The Role of Atmospheric Nitrogen as a Geo-Biosignature

Spross Laurenz, Lammer Helmut, Grenfell John Lee, Scherf Manuel, Fossati Luca, Lendl Monika, Cubillos Patricio E.

14:50–15:00: EPSC2018-228

M Dwarfs, Super Earths and photosynthetic bacteria: a mix for laboratory studies

Claudi Riccardo, La Rocca Nicoletta, Poletto Luca, Alei Eleonora, Battistuzzi Mariano, Cocola Lorenzo, Pace Emanuele

15:00–15:10: EPSC2018-814

Towards new potential strategies for biosignatures detection: correlating the physico-chemistry and complexity of amino acids from deep space

Da Pieve Fabiana, Botek Edith, Vandaele Ann Carine

15:10–15:20: EPSC2018-1133

Zag-Monahans relation to Comets and Biotic Chemicals

Wallis Max, Wickramasinghe Chandra, Al-Mufti Shirwan

15:20–15:30: EPSC2018-1262

Analog Mass Spectra of Astrobiologically Relevant Organic Material for Spaceborne Mass Spectrometers and their Future Implications

Klenner Fabian, Postberg Frank, Stolz Ferdinand, Khawaja Nozair, Reviol René

15:30–15:45: EPSC2018-1284

The European Astrobiology Institute

Geppert Wolf D., Brucato John R., Cabezas Patricia, Falanga Maurizio, Gargaud Muriel, Henning Thomas, Hrušak Jan, Kirsimäe Kalle, Martinez-Frias Jesús, Mason Nigel, Mazevet Stephane, Messina Piero, Spohn Tilman, Taubner Ruth-Sophie, VisoMichel, Walter Nicolas, Westall Frances

END OF ORAL PROGRAMME AB1

Small Bodies (comets, KBOs, rings, asteroids, meteorites, dust)

SB4 Asteroids and parent bodies of meteorites: Observations, experiments, models

Convener: Wladimir Neumann

Co-conveners: Marco Ferrari; Sabrina Schwinger;

Eleonora Ammannito; Ottaviano Ruesch

Lecture Room: Neptune

14:00–15:45

Chairpersons: Wladimir Neumann, Sabrina Schwinger, Marco Ferrari

14:00–14:15: EPSC2018-498

μ -IR + SEM/EDS combined technique for Carbonaceous Chondrite meteorites characterization as possible analogues of Hayabusa2 and Osiris-REx asteroid targets
Dirri Fabrizio, Ferrari Marco, Palomba Ernesto, Stefani Stefania, Longobardo Andrea, Rotundi Alessandra

14:15–14:30: EPSC2018-627

Early Aqueous alteration of Mukundpura (CM2) chondrite—a recent fall in India
Panda Dipak K., Ray Dwijesh, Shukla Anil D.

14:30–14:50: EPSC2018-662

The interior of Enceladus one year after Cassini (solicited talk)

Choblet Gael, Tobie Gabriel, Cadek Ondrej, Sotin Christophe, Bouffard Mathieu, Postberg Frank, Kervazo Mathilde, Behoukova Marie, Soucek Ondrej

14:50–15:05: EPSC2018-131

Evaluating the extent of aqueous alteration among the fine-grained micrometeorite flux
Suttle Martin D, Folco Luigi, Genge Matt, Russell Sara

15:05–15:20: EPSC2018-1012

Fifteen years of Antarctic micrometeorite research by the Italian Programma Nazionale delle Ricerche in Antartide
Folco Luigi

15:20–15:35: EPSC2018-620

European component of the AIDA mission: science investigation of a binary system

Michel Patrick, Küppers Michael, Biele Jens, Campo Bagatin Adriano, Carry Benoît, Charnoz Sébastien, Fitzsimmons Alan, Green Simon, Hérique Alain, Jutzi Martin, Karatekin Ozgur, de Leon Julia, Murdoch Naomi, Pravec Petr, Sierks Holger, Tortora Paolo, Tsiganis Kleomenis, Vincent Jean-Baptiste, Wünnemann Kai, Carnelli Ian

15:35–15:45: EPSC2018-930

The meteorite flux of the last 2 Myr recorded in Atacama
Drouard Alexis, Gattacceca Jérôme, Hutzler Aurore, Rochette Pierre, Braucher Régis, Boulés Didier, Team Aster, Gounelle Matthieu, Morbidelli Alessandro, Debaille Vinciane, Valenzuela Millarca

END OF ORAL PROGRAMME SB4

SB8/AB4 Comets after Rosetta - what do we know and what are the new questions (co-organized)

Convener: Matthew Taylor

Co-conveners: Maria Teresa Capria; Bonnie Buratti; Mathieu Choukroun

Lecture Room: Jupiter

08:30–10:15

08:30–08:45: EPSC2018-823

On understanding multi-instrument Rosetta data of the innermost dust and gas coma of comet 67P/Churyumov-Gerasimenko - results, strengths, and limitations of models

Marschall Raphael, Rezac Ladislav, Kappel David, Marshall David, Su Chin-Chia, Gerig Selina-Barbara, Pinzon Olga, Liao Ying, Rubin Martin, Herny Clémence, Hartogh Paul, Kührt Ekkehard, Mottola Stefano, Preusker Frank, Scholten Frank, Jorda Laurent, Theologou Panagiotis, Groussin Olivier, Dadzie S Kokou, Christou Chariton and the OSIRIS, ROSINA, MIRO, and VIRTIS

08:45–09:00: EPSC2018-704

Seasonal evolution of comet 67P's near-nucleus coma: a model interpretation of Rosetta/OSIRIS observations
Shi Xian, Rose Martin and the OSIRIS-Team

09:00–09:15: EPSC2018-21

Exploring the compositional heterogeneity of dust particles of 67P/Churyumov-Gerasimenko
Exploring the Compositional Heterogeneity of Dust Particles of 67P/Churyumov-Gerasimenko

Hilchenbach Martin and the COSIMA Team

09:15–09:30: EPSC2018-920

Alkali metals and other light elements in the dust of comet 67P/Churyumov-Gerasimenko

Stenzel Oliver, Hilchenbach Martin, Paquette John, Rynö Jouni

09:30–09:45: EPSC2018-285

The global composition of comet 67P's dust as measured in situ by the COSIMA mass spectrometer

Baklouti Donia, Bardyn Anaïs and the COSIMA team

09:45–10:00: EPSC2018-698

Nano-to-micro dust environment monitored by GIADA during the entire ROSETTA scientific phase

Della Corte Vincenzo, Rotundi Alessandra, Fulle Marco, Ivanovski Stavro, Longobardo Andrea, Rinaldi Giovanna, Zakharov Vladimir

10:00–10:15: EPSC2018-865

Organic features in the spectrum of 67P/Churyumov-Gerasimenko from the improved calibration of VIRTIS-M-IR

Raponi Andrea, Ciarniello Mauro, Filacchione Gianrico, Capaccioni Fabrizio, De Sanctis Maria Cristina, Moroz Ljuba V., Vinogradoff Vassilissa, Tosi Federico, Arnold Gabriele, Quirico Eric, Mennella Vito, Beck Pierre, Pilorget Cedric, Pommerol Antoine, Schroder Stefan, Kappel David, Istiqomah Istiqomah, Rousseau Batiste, Poch Olivier

10:15 Coffee break

10:45–12:30**10:45–11:00: EPSC2018-479**

Cometary dust, present understanding and open questions after the Rosetta mission

Levasseur-Regourd A.Chantal, Agarwal Jessica, Cottin Herve, Engrand Cecile, Flynn George, Fulle Marco, Gombosi Tamas, Langevin Yves, Lasue Jeremie, Mannel Thuriid, Merouane Sihane, Thomas Nick, Poch Olivier, Westphal Andrew

11:00–11:15: EPSC2018-640

Dielectric properties of comet 67P/CG and implications for the 2021 radar observations of its next closest approach

Heggy Essam, Palmer Elizabeth, Hérique Alain, Kofman Wlodek

11:15–11:30: EPSC2018-538

Sublimation of cometary ice and mobilization of the dust mantle.

Kossacki Konrad, Misiura Katarzyna

11:30–11:45: EPSC2018-593

A Comet Active Beyond the Crystallization Zone

Jewitt David, Hui Man-To, Mutchler Max, Weaver Harold, Li Jing, Agarwal Jessica

11:45–12:00: EPSC2018-366

Experiments on cometary activity: ejection of dust aggregates from an evaporating water-ice surface

Bischoff Dorothea, Gundlach Bastian, Neuhaus Martin, Blum Jürgen

12:00–12:15: EPSC2018-162

Agglomeration of 67P/Churyumov-Gerasimenko from clathrates and crystalline ices

Mousis Olivier, Ronnet Thomas, Lunine Jonathan, Wurz Peter, Mandt Kathleen, Vernazza Pierre, Luspay-Kuti Adrienn, Pauzat Françoise, Ellinger Yves, Danger Grégoire, d'Hendecourt Louis

12:15–12:30: EPSC2018-289

Constraining activity models of comet 67P/Churyumov-Gerasimenko with Rosetta data

Attree Nicholas, Jorda Laurent, Groussin Olivier, Mottola Stefano, Thomas Nick, Brouet Yann, Poch Olivier, Kuehrt Ekkhard, Preusker Frank, Scholten Frank, Knollenburg Jorg, Hviid Stubbe, Hartogh Paul

12:30 Lunch break**14:00–15:45****14:00–14:15: EPSC2018-724**

Inbound to perihelion dust activity of 67P/Churyumov-Gerasimenko's Northern hemisphere

Longobardo Andrea, Della Corte Vincenzo, Ivanovski Stavro, Rinaldi Giovanna, Rotundi Alessandra, Fulle Marco, Capaccioni Fabrizio, Palomba Ernesto, Palumbo Pasquale, Tosi Federico, Capria Maria Teresa, Filacchione Gianrico, Raponi Andrea, Ciarniello Mauro, Bockelee-Morvan Dominique, Erard Stephane, Leyrat Cedric

14:15–14:30: EPSC2018-910

VIRTIS and GIADA observations of summer outbursts on 67P/CG

Rinaldi Giovanna, Della Corte Vincenzo, Longobardo Andrea, Rotundi Alessandra, Fulle Marco, Bockelee-Morvan Dominique, Capaccioni Fabrizio, Ivanovski Stavro, Filacchione Gianrico, Raponi Andrea, Ciarniello Mauro, Erard Stephane, Leyrat Cedric, Formisano Michelangelo

14:30–14:45: EPSC2018-701

Mass loss during outbursts on comet 67P

Agarwal Jessica, Della Corte Vincenzo, Geiger Bernhard, Gruen Eberhard, Markkanen Johannes, Marschall Raphael, Rotundi Alessandra, Rubin Martin and the the Teams of GIADA, OSIRIS, and ROSINA

14:45–15:00: EPSC2018-693

Evidence for a Surface Evolution Trend in Jupiter-Family Comets

Kokotanekova Rosita, Snodgrass Colin, Lacerda Pedro, Green Simon F.

15:00–15:15: EPSC2018-580

Bowl shaped features on comet 67P/Churyumov-Gerasimenko as a test of cometary material properties

Deller Jakob, Güttler Carsten, Tubiana Cecilia, Sierks Holger and the OSIRIS Team

15:15–15:30: EPSC2018-933

Spectrophotometric investigation of the layered structure of comet 67P/Churyumov-Gerasimenko

Tognon Gloria, **Ferrari Sabrina**, Penasa Luca, La Forgia Fiorangela, Massironi Matteo, Naletto Giampiero, Lazzarin Monica

15:30–15:45: EPSC2018-664

Layering-Related Linear Features on Comet 67P

Ruzicka Birko-Katarina, Boehnhardt Hermann, Penasa Luca, Pack Andreas

15:45 Coffee break**16:15–18:00****16:15–16:30: EPSC2018-927**

Geomorphological units of Khepry and Imhotep regions of comet 67P/Churyumov-Gerasimenko

Ferrari Sabrina, Feller Clement, Massironi Matteo, Penasa Luca, Cambianica Pamela, Naletto Giampiero, Fornasier Sonia

16:30–16:45: EPSC2018-687

Seasonal colors cycling on 67P/CG nucleus and coma

Filacchione Gianrico, Ciarniello Mauro, Raponi Andrea, Capaccioni Fabrizio, De Sanctis Maria Cristina, Capria Maria Teresa, Tosi Federico, Rinaldi Giovanna, Longobardo Andrea, Erard Stephane, Bockelee-Morvan Dominique, Leyrat Cedric, Arnold Gabriele

16:45–17:00: EPSC2018-249

Colours, albedos and spectral properties of the Khepry-Imhotep region of comet 67P as observed by Rosetta/OSIRIS during the April 2016 flyby

Feller Clement, Fornasier Sonia, Hasselmann Pedro, Barucci Maria Antonella, Ferrari Sabrina, Massironi Matteo, Deshapriya Jasinghede D. Prasanna

17:00–17:15: EPSC2018-618

Analysis of phase curve of 67P/Churyumov-Gerasimenko at small phase angles using Rosetta-OSIRIS images
Masoumzadeh Nafiseh, Tubiana Cecilia, Guettler Carsten, Sierks Holger and the OSIRIS team

17:15–17:30: EPSC2018-808

Colors and morphology of sources of activity on 67P/Churyumov-Gerasimenko nucleus from OSIRIS/ROSETTA

Fornasier Sonia, Hoang Van H., Hasselmann Pedro H., Feller Clement, Barucci Maria A., Deshapriya Prasanna J.D

17:30–17:45: EPSC2018-1166

Mapping and changes of exposed bright features on the comet 67P/Churyumov-Gerasimenko

Deshapriya J. D. Prasanna, Barucci Antonella, Fornasier Sonia, Hasselmann Pedro, Feller Clement, Sierks Holger

17:45–18:00: EPSC2018-542

Meter scale changes on comet 67P

Vincent Jean-Baptiste, Kuehrt Ekkehard and the OSIRIS team

END OF ORAL PROGRAMME SB8/AB4**SB9 Ceres and Vesta**

Convener: Francesca Zambon

Co-conveners: Wladimir Neumann; Eleonora Ammannito; Simone Ieva; Alessandra Migliorini; Daniele Fulvio

Lecture Room: Mars

08:30–10:10

Chairpersons: F. Zambon, W. Neumann

08:30–08:50: EPSC2018-612

Dawn's Second Extended Mission at Ceres: A New Perspective (solicited talk)

Castillo Julie, Raymond Carol, Russell Christopher, Prettyman Thomas, De Sanctis Maria Cristina, Nathues Andreas, Park Ryan, Polanskey Carol, Joy Steve, Rayman Marc

08:50–09:10: EPSC2018-965

Exploring Ceres geology using Dawn Framing Camera (solicited talk)

Thangjam Guneshwar, Nathues Andreas, Hoffmann Martin, Schmedemann Nico, Mengel Kurt

09:10–09:25: EPSC2018-645

Dawn Data Reveal Ceres' Complex Crustal Evolution

Raymond Carol A., Castillo-Rogez Julie C., Park Ryan S., Ermakov Anton, Bland Michael T., Marchi Simone, Prettyman Thomas, Ammannito Eleonora, De Sanctis M. Cristina, Russell Christopher T.

09:25–09:40: EPSC2018-606

Laccolithic "Pingo" & Hydrothermal Origins for the Central Features of Occator Crater, Ceres

Schenk Paul, Sizemore Hanna, Schmidt Britney, Bowling Timothy, Castillo-Rogez Julie, Raymond Carol

09:40–09:55: EPSC2018-1254

Revisiting the Cerealia and Vinalia Faculae on Ceres

Neesemann Adrian, van Gasselt Stephan, Marchi Simone, Michael Gregory, Schmedemann Nico, Hiesinger Harald, Jaumann Ralf, Raymond Carol, Russell Christopher

09:55–10:10: EPSC2018-998

The issue of secondary craters on Ceres for the example of the Ahuna Mons region

Schmedemann Nico, Neesemann Adrian, Schulzeck Franziska, Krohn Katrin, von der Gathen Isabel, Otto Katarina A., Jaumann Ralf, Michael Gregory G., Thangjam Guneshwar, Nathues Andreas, Raymond Carol A., Russell Christopher T.

10:10 Coffee break**10:45–12:25**

Chairpersons: C. Raymond, N. Schmedemann

10:45–11:05: EPSC2018-449

The Geology of Ceres and Vesta (solicited talk)

Krohn Katrin, Jaumann Ralf, Buczkowski Debra L., Williams Dave A., DeSanctis Maria Cristina, Pieters Carle M., Otto Katharina A., Ruesch Ottaviano, Stephan Katrin, Tosi Federico, Wagner Roland J., Zambon Francesca, Raymond Carol A., Russell Christopher T.

11:05–11:25: EPSC2018-751

Disk-resolved photometry of Vesta and Ceres (solicited talk)

Longobardo Andrea, Palomba Ernesto, De Sanctis Maria Cristina, Ciarniello Mauro, Galiano Anna, Schroeder Stefan, Ammannito Eleonora, Tosi Federico, Capaccioni Fabrizio, Zambon Francesca, Carrozzo Filippo Giacomo, Raponi Andrea, Capria Maria Teresa, Stephan Katrin, Rognini Edoardo, Raymond Carol, Russell Christopher

11:25–11:40: EPSC2018-841

Ceres' surface observed at low phase angles by VIR-Dawn

Ciarniello Mauro, De Sanctis Maria Cristina, Ammannito Eleonora, Raponi Andrea, Carrozzo Filippo Giacomo, Longobardo Andrea, Tosi Federico, Rognini Edoardo, Zambon Francesca, Schroeder Stefan, Raymond Carol A., Russell Christopher T.

11:40–11:55: EPSC2018-555

Temperature and emissivity of specific regions of interest on Ceres

Tosi Federico, Capria Maria Teresa, Rognini Edoardo, De Sanctis Maria Cristina, Formisano Michelangelo, Thangjam Guneshwar, Zambon Francesca, Ammannito Eleonora, Carrozzo Filippo Giacomo, Ciarniello Mauro, Combe Jean-Philippe, Krohn Katrin, Longobardo Andrea, Nathues Andreas, Palomba Ernesto, Raponi Andrea, Stephan Katrin, Raymond Carol A., Russell Christopher T.

11:55–12:10: EPSC2018-888

High thermal inertia areas on Ceres

Rognini Edoardo, Capria Maria Teresa, Tosi Federico, De Sanctis Maria Cristina, Frigeri Alessandro, Palomba Ernesto, Longobardo Andrea, Fonte Sergio, Giardino Marco, Carrozzo Filippo Giacomo, Raponi Andrea, Ciarniello Mauro, Ammannito Eleonora, Raymond Carol, Russell Christopher

12:10–12:25: EPSC2018-1265

Classification of Dawn/VIR data reveals Homogeneous Units on Ceres surface

Zambon Francesca, De Sanctis M. Cristina, Carrozzo Giacomo, Tosi Federico, Stephan Katrin, Combe Jean-Philippe, Krohn Katrin, Ciarniello Mauro, Longobardo Andrea, Palomba Ernesto, Raponi Andrea, Thangjam Guneshwar, Russell Christopher T., Raymond Carol A.

12:25 Lunch break**14:00–15:45**

Chairpersons: K. Krohn, M. Ciarniello

14:00–14:15: EPSC2018-623

Circumferential Fractures around Craters on Ceres and their Implications for the Properties of the Subsurface

Otto Katharina, Marchi Simone, Trowbridge Alexander, Melosh Jay, Sizemore Hanna

14:15–14:30: EPSC2018-1201

Floor-fractured Craters on Ceres

Buczkowski Debra, Sizemore Hanna, Bland Michael, Scully Jennifer, Quick Lynnae, Hughson Kynan, Schenk Paul, Castillo-Rogez Julie, Raymond Carol, Russell Chris

14:30–14:45: EPSC2018-685

IR spectroscopy of ammoniated phyllosilicates at low pressure/high temperature conditions

De Angelis Simone, Ferrari Marco, De Sanctis Maria Cristina, Ammannito Eleonora

14:45–15:00: EPSC2018-1243

The intriguing Tina asteroid family: a compositional investigation

Perna Davide, Fanasca Cristina, Ieva Simone, Carruba Valerio, Dotto Elisabetta, Mazzotta Epifani Elena, Fornasier Sonia, Dall'Ora Massimo, Hasselmann Pedro, Alvarez-Candal Alvaro

15:00–15:15: EPSC2018-757

Basaltic material in the main belt: a tale of two parent bodies?

Ieva Simone, Dotto Elisabetta, Lazzaro Daniela, Fulvio Daniele, Perna Davide, Mazzotta Epifani Elena, Medeiros Hissa, Fulchignoni Marcello

15:15–15:30: EPSC2018-1024

Fine-grained Antarctic micrometeorites and weathered carbonaceous chondrites as possible analogues of Ceres surface: implications on its evolution.

Nava Jacopo, Carli Cristian, Palomba Ernesto, Maturilli Alessandro, Massironi Matteo

15:30–15:45: EPSC2018-1264

Mineralogical and photometric analysis of V-type asteroids

Medeiros Hissa, de Leon Julia, Lazzaro Daniela, Rondon Eduardo, Monteiro Filipe, Popescu Marcel, Pinilla-Alonso Noemi, Arcoverde Plicida, Morate David, Rodrigues Teresinha, Lorenzi Vania, Landsman Zoe

END OF ORAL PROGRAMME SB9**SB10 Interplanetary and Interstellar Dust**

Convener: Ralf Srama

Co-convener: Harald Krüger

Lecture Room: Uranus

08:30–10:00**08:30–08:45: EPSC2018-181**

GRAAL project: in situ optical detection of dust concentration from the Earth's orbit

Renard Jean-Baptiste, Mousis Olivier, Colas François, **Levasseur-Regourd Anny-Chantal**

08:45–09:00: EPSC2018-199

Characterisation of the Outer Solar System dust by Cassini-CDA

Altobelli Nicolas, Kempf Sascha, Postberg Frank, Fischer Christian, Albin Thomas, Srama Ralf

09:00–09:15: EPSC2018-719

The Large Interstellar Polarisation Survey

Cox Nick, Bagnulo Stefano, Siebenmorgen Ralf

09:15–09:30: EPSC2018-1187

The measurement of micron sized impact fragment using delay line detector

Li Yanwei, Mockler Anna, Srama Ralf

09:30–09:45: EPSC2018-1223

Dust Astronomy with the DESTINY+ Dust Analyser

Srama Ralf, Kobayashi Masanori, Krüger Harald and the DESTINY+ Team

09:45–10:00: EPSC2018-217

Dust simulations for the Destiny+ mission to (3200) Phaethon

Krüger Harald, Kobayashi Masanori, Arai Tomoko, Srama Ralf, Sarli Bruno V., Kimura Hiroshi, Hirai Takayuki, Moragas-Klostermeyer Georg, Soja Rachel, Strack Heiko, Altobelli Nicolas, Strub Peter, Sterken Veerle, Grün Eberhard

END OF ORAL PROGRAMME SB10**SB11/MD7 Models of atmospheres and exospheres, surfaces, and interiors of small bodies (co-organized)**

Convener: Michelangelo Formisano

Co-conveners: Andrea Raponi; Audrey Vorburger

Lecture Room: Uranus

10:45–12:30**10:45–11:00: EPSC2018-369**

Outgassing of H₂O/CO₂ mixtures

Neuhaus Martin, Gundlach Bastian, Blum Jürgen

11:00–11:15: EPSC2018-1218

Numerical SPIS-Dust Modelling of Plasma - Lunar Lander Interactions

Kuznetsov Ilia, Zakharov Alexander, Seran Elena, Hess Sebastian, Cipriani Fabrice, Dolnikov Gennady, Lyash Andrey, Shashkova Inna

11:15–11:30: EPSC2018-497

Europa's Ice-Related Atmosphere:
The Sputter Contribution

Vorburger Audrey, Wurz Peter, Galli André

11:30–11:45: EPSC2018-881

Modeling the Evolution of the Acapulcoite-Lodranite parent body: An Insight into a Partially Differentiated Asteroid

Neumann Wladimir, Henke Stephan, Breuer Doris, Gail Hans-Peter, Tieloff Mario, Schwarz Winfried, Hopp Jens, Spohn Tilman

11:45–12:00: EPSC2018-740

Core dynamo in mantle-stripped asteroids

Formisano Michelangelo, Federico Costanzo, De Sanctis Maria Cristina, De Angelis Simone, Magni Gianfranco

12:00–12:15: EPSC2018-409

The Lagrangian SPH approach applied to the cometary gas-dust emission.

Pinto Luis Diego

12:15–12:30: EPSC2018-853

Transient exospheres and atmospheres in dwarf planets: SPH treatment with composite gas-dust plumes

Magni Gianfranco, Formisano Michelangelo

END OF ORAL PROGRAMME SB11/MD7

Outreach, Education and Policy

OEP6 Astrobiology Teaching, Outreach and Dissemination

Convener: Klara Anna Capova

Co-convener: Elias Chatzitheodoridis

Lecture Room: Saturn

08:30–10:15

Chairperson: Elias Chatzitheodoridis

08:30–08:45: EPSC2018-1270

Teaching Astrobiology in the modern classroom: a contemporary challenge and an opportunity for educators

Metaxa Margarita

08:45–09:00: EPSC2018-1014

Lessons learned from using Socratic Dialogue in astrobiology education

Persson Erik

09:00–09:15: EPSC2018-478

Danakil Depression: A natural laboratory as a vehicle for astrobiology outreach

Kokori Anastasia

09:15–09:30: EPSC2018-867

How did life begin? A unique opportunity for science outreach in the context of the GENESIS-SKA project

Zanazzi Alessandra, Boccato Caterina, Chinnici Ileana, Pastore Serena and the SKA-GENESIS

09:30–09:45: EPSC2018-900

The planetary "Grand Tour" in the Czech Republic

Petrasek Tomas, Nekola Novakova Julie

09:45–10:00: EPSC2018-956

Europlanet Outreach Video - "Astrobiology: Life in the Universe"

Barrosa Mariana

10:00–10:10: EPSC2018-658

Astrobiology and Society in Europe Today: The White Paper on the societal implications of astrobiology research in Europe and the need for a European Astrobiology Institute

Capova Klara Anna, Persson Erik, Milligan Tony, Duner David

10:10–10:15: Discussion**END OF ORAL PROGRAMME OEP6**

OEP7 Policy Towards the International Lunar Decade & Planetary exploration outreach through Arts

Convener: Bernard Foing

Co-convener: Vidvuds Beldavs

Lecture Room: Neptune

16:15–18:00

Chairperson: Bernard Foing

16:15–16:30: EPSC2018-602

EarthMoonMars Village Update 2018

Foing Bernard and the EarthMoonMars Village Activities Organisers

16:30–16:45: EPSC2018-1260

Mapping Synergies: Sustainable Development Goals and Research & Technology in Space Architecture and Human Spaceflight

Van der Sanden Germaine, Foing Bernard

16:45–16:55: EPSC2018-905

Self Deployable Origami for MoonMars Architecture

Sitnikova Anna, **Foing Bernard**, Izotova Anastasia, Zaklynsky Alexander, Boon Samira, James Matthew, Sanden Germaine, Clavé Elise, Dubois Louis

16:55–17:05: EPSC2018-1244

Global Science Operas: Moon Village (2017), Oceans & Climate (2018)

Ben Horin Oded, Foing Bernard, Robberstadt Janne, van der Sanden Germaine

17:05–17:15: EPSC2018-1246

From Westworld to Moon World on Grindhouse Radio

James Matthew, Foing Bernard, Adragna Kim, BrimStone Will and the Westworld to Moon Grindhouse radio cast

17:15–17:30: EPSC2018-268

Towards the International Lunar Decade

Beldavs Vidvuds, Dunlop David, Crisafulli Jim, Foing Bernard

17:30–17:45: EPSC2018-1215

Fluid Bodies: From the Celestial to the Subatomic

Gelfand Dmitry, Domnitch Evelina

17:45–18:00: EPSC2018-633

Creating music from astronomical/planetary data:

Herschel/PACS data sonification of Haumea

Rengel Miriam, Ockert Matthias

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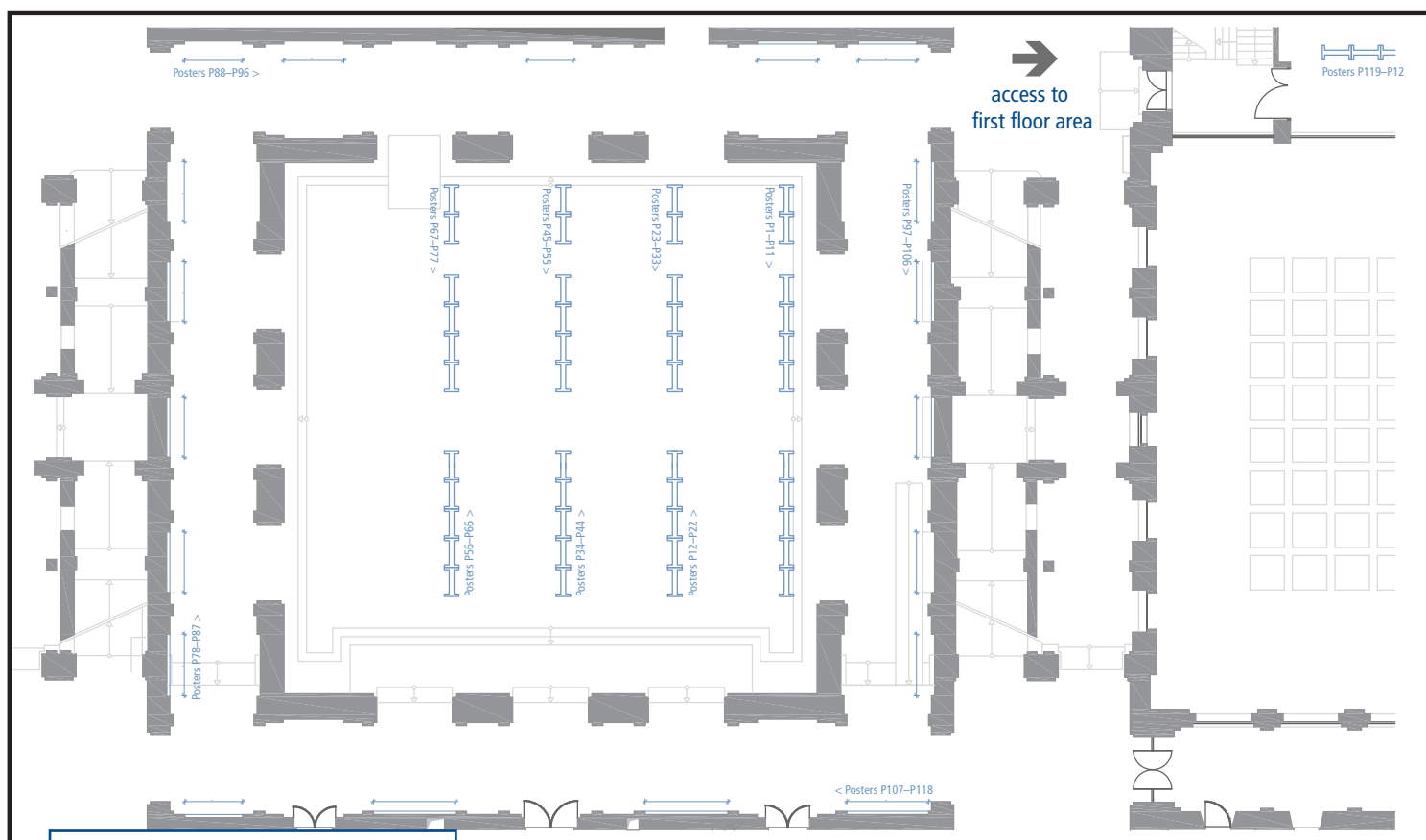
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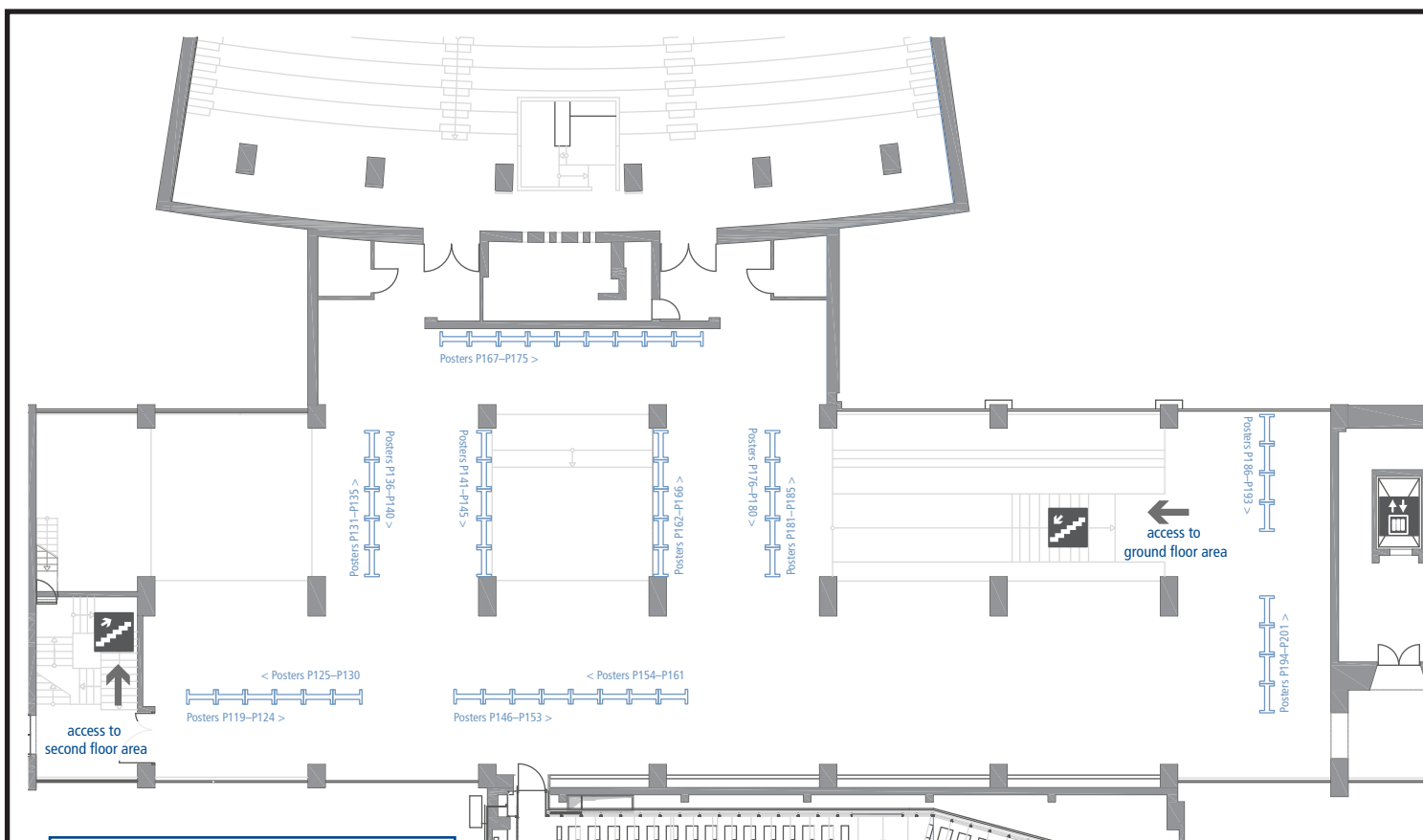
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