

Daily programme for room Manuel de Falla

Room Manuel de Falla | Mon, 19 Sep 2022

BR1 | Briefing Monday 19 September 2022

08:30–09:00 **Briefing Monday 19 September 2022**

KLD1 | Keynote lecture TP: "The huge potential of salt minerals deposits on Mars, to investigate the past planet's climate and habitability" by Solmaz Adeli

Convener: Ana-Catalina Plesa

09:15–09:45 **Keynote lecture TP: "The huge potential of salt minerals deposits on Mars, to investigate the past planet's climate and habitability" by Solmaz Adeli**

Break

SB2 | Small bodies from the active Main Belt to the Oort cloud and beyond

Conveners: Jean-Baptiste Vincent, Thomas Müller, Xian Shi | Co-conveners: Alessandra Migliorini, Aurelie Guilbert-Lepoutre, Michael Küppers, Estela Fernández-Valenzuela, Noemi Pinilla-Alonso, Jessica Agarwal, Yoonyoung Kim

Chairpersons: Thomas Müller, Michael Küppers

Session I: TNOs

10:00–10:05 **Introduction**

10:05–10:20 EPSC2022-1196

Discovering the Surface Composition of TNOs (DiSCO-TNOs) with the James Webb Space Telescope

Mario De Pra, Noemi Pinilla-Alonso, Ana Carolina Souza Feliciano, Charles Schambeau, Brittany Harvison, Josh Emery, Dale Cruikshank, Yvonne Pendleton, Bryan Holler, John Stansberry, Vania Lorenzi, Thomas Muller, Aurélie Guilbert-Lepoutre, Nuno Peixinho, Michele Bannister, and Rosario Brunetto

10:20–10:30 EPSC2022-362

Unveiling the Kuiper belt from the JWST through stellar occultations

Pablo Santos-Sanz, Noemí Pinilla-Alonso, John Stansberry, Bryan J. Holler, Altair R. Gomes Junior, Bruno E. Morgado, José Luis Ortiz, Bruno Sicardy, Nicolás Morales, Mónica Vara-Lubiano, Estela Fernández-Valenzuela, Josselin Desmars, Mike Kretlow, Damya Souami, Felipe Braga-Ribas, Julio Camargo, Gustavo Benedetti-Rossi, Flavia L. Rommel, René Duffard, and Marcelo Assafin

10:30–10:40 EPSC2022-677

Rotational properties of Kuiper belt objects as seen by the K2 mission

Viktória Kecskeméthy, **Csaba Kiss**, Róbert Szakáts, András Pál, Gyula M. Szabó, László Molnár, Krisztián Sárneczky, József Vinkó, Róbert Szabó, Gábor Marton, Anikó Farkas-Takács, Csilla Kalup, and László L. Kiss

10:40–10:50 EPSC2022-936

Exploring Variability within the Col-OSSOS Sample

Laura Buchanan, Megan Schwamb, Wesley Fraser, Michele Bannister, Michaël Marsset, Rosemary Pike, JohnJ Kavelaars, Susan Benecchi, Matthew Lehner, Shiang-Yu Wang, Nuno Peixinho, Kathryn Volk, Mike Alexandersen, Ying-Tung Chen, Brett Gladman, Stephen Gwyn, and Jean-Marc Petit

10:50–11:00 EPSC2022-338

Trans-Neptunian Object discoveries at KMTNet-CTIO

Youngmin JeongAhn, Hong-Kyu Moon, Myung-Jin Kim, and Young-Jun Choi

11:00–11:10 EPSC2022-610

Long-term photometric analysis of the trans-Neptunian object 2008 OG19

Marc Costa-Sitjà, Estela Fernández-Valenzuela, José Luis Ortiz, Nicolás Morales, Pablo Santos-Sanz, and Mónica Vara-Lubiano

- 11:10–11:20 EPSC2022-406
Hi'iaka's physical and dynamical properties using long-term photometric data
Estela Fernández-Valenzuela, José Luis Ortiz, Nicolás Morales, Emmanuel Jehin, Artem Burdanov, Julien de Wit, Marin Ferrais, Mónica Vara-Lubiano, Rafael Morales, Mike Kretlow, Pablo Santos-Sanz, Alvaro Alvarez-Candal, René Duffard, András Pál, Csaba Kiss, and Róbert Szakáts
- 11:20–11:30 EPSC2022-172
The 11 November 2021 multi-chord stellar occultation by trans-Neptunian object (119951) 2002 TC302
Mike Kretlow, José Luis Ortiz, Bruno Sicardy, Felipe Braga-Ribas, Josselin Desmars, Estela Fernández-Valenzuela, Nicolás Morales, Pablo Santos-Sanz, Yucel Kilic, Bruno Morgado, Gustavo Benedetti-Rossi, Julio Camargo, Flavia L. Rommel, Mónica Vara-Lubiano, René Duffard, Marcelo Assafin, Altair Ramos Gomes Júnior, Damya Souami, Roberto Vieira-Martins, and Álvaro Álvarez-Candal and the 2002 TC302 occultation team

CE3 | Opening ceremony

12:00–13:30 **Opening ceremony**

Lunch break

SB2 | Small bodies from the active Main Belt to the Oort cloud and beyond

Conveners: Jean-Baptiste Vincent, Thomas Müller, Xian Shi | Co-conveners: Alessandra Miglorini, Aurelie Guilbert-Lepoutre, Michael Küppers, Estela Fernández-Valenzuela, Noemi Pinilla-Alonso, Jessica Agarwal, Yoonyoung Kim

Chairperson: Jessica Agarwal

Session II: Comets

- 15:30–15:35 **Introduction**
- 15:35–15:50 EPSC2022-989
Observations during a 20-au outburst of the largest observed Oort-cloud comet C/2014 UN271 (Bernardinelli-Bernstein)
Rosita Kokotanekova, Michael S. P. Kelley, Carrie E. Holt, Cyrielle Opitom, Silvia Protopapa, Matthew M. Knight, Tim Lister, Michele T. Bannister, Colin Snodgrass, and Alan Fitzsimmons
- 15:50–16:00 EPSC2022-360
Production rates of comet C2020/F3 (NEOWISE) from high resolution spectroscopy
Giovanni Munaretto, Pamela Cambianica, Gabriele Cremonese, Marco Fulle, Walter Boschin, Luca Di Fabrizio, Avet Harutyunyan, Linda Podio, and Claudio Codella
- 16:00–16:10 EPSC2022-895
Structural analysis of the dust tail of Comet NEOWISE (C/2020 F3)
Qasim Afghan, Geraint H. Jones, Oliver Price, and Andrew J. Coates
- 16:10–16:20 EPSC2022-1160
High resolution optical spectroscopic comparison of a short period and long period comet
Krishnakumar Aravind, Kumar Venkataramani, Shashikiran Ganesh, Thirupathi Sivarani, Devendra Sahu, and Athira Unni
- 16:20–16:30 EPSC2022-685
The NIR chemical composition of C/2021 A1(Leonard) at perihelion from CRIRES+ at the VLT
Mathieu Vander Donckt, Manuela Lippi, Sara Faggi, and Emmanuel Jehin
- 16:30–16:40 EPSC2022-1106
The Prediction of, and Results from Solar Orbiter's encounter with Comet C/2021 A1 (Leonard).
Samuel Grant, Geraint Jones, Christopher Owen, and Lorenzo Matteini
- 16:40–16:50 EPSC2022-596
Modeling of N₂⁺ and 14N₁₅N⁺ fluorescence spectrum in comets
Philippe Rousselot, Sarah Anderson, Alexander Alijah, Benoît Noyelles, Emmanuël Jehin, Damien Hutsemékers, Cyrielle Opitom, and Jean Manfroid

16:50–17:00 EPSC2022-538

The N2 Production Rate in C/2016 R2 (PanSTARRS)

Sarah Anderson, Philippe Rousselot, Benoît Noyelles, Cyrielle Opitom, Emmanuël Jehin, Damien Hutsemékers, and Jean Manfroid

Coffee break

Chairperson: Yoonyoung Kim

Session III: Active Asteroids

17:30–17:40 EPSC2022-925

A targeted search for Main Belt Comets

Léa Ferrellec, Colin Snodgrass, and Cyrielle Opitom

17:40–17:50 EPSC2022-1211

Activity of the Main-Belt Comet 324P/La Sagra

Maria Mastropietro, Henry Hsieh, Yoonyoung Kim, and Jessica Agarwal

17:50–18:00 EPSC2022-28

Active Asteroid P/2020 O1: Constraining the Ice Line in the Main Asteroid Belt

Yoonyoung Kim, David Jewitt, Jessica Agarwal, Max Mutchler, Jing Li, and Harold Weaver

18:00–18:10 EPSC2022-379

Re-activation of main-belt comet 288P in 2021

Jessica Agarwal, Yoonyoung Kim, David Jewitt, Max Mutchler, Harold Weaver, and Stephen Larson

18:10–18:20 EPSC2022-83

Characterisation of active asteroid (248370) 2005QN173

Bojan Novakovic, **Debora Pavela**, Henry Hsieh, and Dusan Marceta

18:20–18:30 EPSC2022-96

Spectrophotometric Properties of Geologically Young Regions on Ceres

Jian-Yang Li, Xiao-Duan Zou, Scott C. Mest, **Stefan E. Schröder**, Stefano Mottola, and Jeffrey S. Kargel

Room Manuel de Falla | Tue, 20 Sep 2022

BR2 | Briefing Tuesday 20 September 2022

08:30–09:00 **Briefing Tuesday 20 September 2022**

KLD2 | Keynote lecture SB: "Present status of initial descriptions and distributions of Ryugu samples returned by Hayabusa2" by Toru Yada

Convener: Jean-Baptiste Vincent

09:15–09:45 **Keynote lecture SB: "Present status of initial descriptions and distributions of Ryugu samples returned by Hayabusa2" by Toru Yada**

Break

SB2 | Small bodies from the active Main Belt to the Oort cloud and beyond

Conveners: Jean-Baptiste Vincent, Thomas Müller, Xian Shi | Co-conveners: Alessandra Migliorini, Aurelie Guilbert-Lepoutre, Michael Küppers, Estela Fernández-Valenzuela, Noemi Pinilla-Alonso, Jessica Agarwal, Yoonyoung Kim

Chairpersons: Jean-Baptiste Vincent, Aurelie Guilbert-Lepoutre

Session IV: 67P/Rosetta

10:00–10:10 EPSC2022-482

Elemental Composition and Optical Properties of Cometary Dust Particles in the Coma of Comet 67P
Martin Hilchenbach, Oliver Stenzel, and Henning Fischer

10:10–10:20 EPSC2022-814

Dynamics of dm-sized Particles in the Coma of Comet 67P/Churyumov–Gerasimenko
Marius Pfeifer, Jessica Agarwal, and Raphael Marschall

10:20–10:30 EPSC2022-3

Primitiveness of cometary dust collected by MIDAS on-board Rosetta
Minjae Kim, Thurid Mannel, Jeremie Lasue, Andrea Longobardo, Mark Bentely, and Richard Moissl

10:30–10:40 EPSC2022-281

The near nucleus gas and dust environment around comet 67P/Churyumov-Gerasimenko
Tobias Kramer and Matthias Läuter

10:40–10:50 EPSC2022-109

Extensive catalogue of exposures of volatiles on 67P/Churyumov-Gerasimenko comet nucleus revealed from the OSIRIS cameras onboard the Rosetta mission
Sonia Fornasier, Van Hong Hoang, and Eric Quirico

10:50–11:00 EPSC2022-459

Characterization of 67P/Churyumov-Gerasimenko cometary activity
Andrea Longobardo, Minjae Kim, Boris Pestoni, Hervé Cottin, Carsten Guttler, Stavro Ivanovski, Thurid Mannel, Sihane Merouane, Giovanna Rinaldi, Martin Rubin, Cecilia Tubiana, Vladimir Zakharov, Prasanna Deshapriya, Fabrizio Dirri, Mauro Ciarniello, Vincenzo Della Corte, Marco Fulle, Ernesto Palomba, and Alessandra Rotundi

11:00–11:10 EPSC2022-5

Constraints on comet thermal models from Rosetta at 67P/Churyumov-Gerasimenko
Nicholas Attree, Jessica Argawal, Laurent Jorda, Oliver Groussin, Raphael Marschall, Riccardo Lasagni Manghi, Paolo Tortora, and Marco Zannoni

11:10–11:20 EPSC2022-105

Seasonal evolution unveils the internal structure of cometary nuclei
Mauro Ciarniello, Marco Fulle, Andrea Raponi, Gianrico Filacchione, Fabrizio Capaccioni, Alessandra Rotundi, Giovanna Rinaldi, Michelangelo Formisano, Gianfranco Magni, Federico Tosi, Maria Cristina De Sanctis, Maria Teresa Capria, Andrea Longobardo, Pierre Beck, Sonia Fornasier, David Kappel, Vito Mennella, Stefano Mottola, Batiste Rousseau, and Gabriele Arnold

11:20–11:30 EPSC2022-517

Rosetta/ROSINA DFMS view of the summer fireworks on comet 67P**Daniel Müller**, Kathrin Altwegg, Jean-Jacques Berthelier, Michael Combi, Johan De Keyser, Stephen Fuselier, Boris Pestoni, Martin Rubin, and Susanne Wampfler

Coffee break

Chairpersons: Estela Fernández-Valenzuela, Jean-Baptiste Vincent

Session V: 67P and other comets (continued)

12:00–12:10 EPSC2022-591

Searching for Outbursts in the Ground-Based Photometry of 67P/Churyumov-Gerasimenko**Daniel Gardener** and Colin Snodgrass

12:10–12:20 EPSC2022-256

Evolution of circular depressions at the surface of JFCs**Selma Benesguane**, Aurélie Guilbert-Lepoutre, Jérémie Lasue, Sébastien Besse, Arnaud Beth, Björn Grieger, and Maria Teresa Capria

12:20–12:30 EPSC2022-933

The convex shape of the nucleus of 162P/Siding-Spring**Abbie Donaldson**, Colin Snodgrass, Rosita Kokotanekova, and Agata Rożek

12:30–12:40 EPSC2022-878

Using Phase Curves from ATLAS to Search for Cometary Activity in the Solar System**Matthew M. Dobson**, Megan E. Schwamb, Susan D. Benecchi, Anne J. Verbiscer, Alan Fitzsimmons, Luke J. Shingles, Larry Denneau, Aren N. Heinze, Ken W. Smith, John L. Tonry, Henry Weiland, and David R. Young

12:40–12:50 EPSC2022-201

On the thermal processing of Jupiter-family Comets**Anastasios Gkotsinas**, Aurélie Guilbert-Lepoutre, Sean Raymond, and David Nesvornyy

12:50–13:00 EPSC2022-669

On the Bayesian analysis of stellar occultation by small solar system bodies**Rodrigo Leiva**13:00–13:10 EPSC2022-401 | **MI****The effect of close stellar flybys on the distant minor body population.****Krzysztof Langner** and Przemysław Bartczak13:10–13:20 EPSC2022-18 | **MI****The formation and evolution of planetesimals towards comets – an overview****Dorothea Bischoff**, Bastian Gundlach, and Jürgen Blum13:20–13:30 EPSC2022-231 | **MI****Particle growth beyond the CO₂ snowline – dynamic and mechanical properties of CO₂ ice****Miriam Fritscher** and Jens Teiser

TP21 | New Decade of Venus Exploration: International Coordination and Collaborations

Convener: Nigel Mason

13:45–15:15 **New Decade of Venus Exploration: International Coordination and Collaborations**

SB1 | Asteroid observations and modelling: properties and evolution of individual objects, families, and populations

Conveners: Irina Belskaya, Bojan Novakovic, Csaba Kiss | Co-conveners: Dagmara Oszkiewicz, Oleksiy Golubov, Agnieszka Kryszczyńska, Valerio Carruba, David Vokrouhlicky, András Pál, Rene Duffard, Alvaro Alvarez-Candal, Grigori Fedorets

Chairpersons: Csaba Kiss, Grigori Fedorets

15:30–15:35 **Introduction**

Surveys and survey-based studies

- 15:35–15:45 EPSC2022-293
Rotational properties of MB family asteroids, Hildas, and Trojans, based on K2 and TESS observations
Gyula Szabó
- 15:45–15:55 EPSC2022-796
Optimization of future multi-filter surveys towards asteroid characterisation
Hanna Klimczak, Wojciech Kotłowski, Dagmara Oszkiewicz, Francesca DeMeo, Agnieszka Kryszczyńska, Emil Wilawer, and Tomasz Kwiatkowski
- 15:55–16:05 EPSC2022-570
NEOROCKS characterization programme of near-Earth asteroids previously observed with radar
Hissa Medeiros, Julia de León, Javier Licandro, Marcel Popescu, David Morate, and Noemi Pinilla-Alonso and the Arecibo Planetary Radar Team*, and the NEOROCKS Team**
- 16:05–16:15 EPSC2022-1049
Exploring the near-UV for primitive asteroids using ground-based observations, space telescopes, a survey-like catalog, and following up with Gaia
Fernando Tinaut-Ruano, Eri Tatsumi, Julia de León, and David Morate
- 16:15–16:25 EPSC2022-1225
Spin-axis and rotation of small bodies using multi-directional measurements of the Transiting Exoplanet Survey Satellite
Takács Nóra, András Pál, and Csaba Kiss
- 16:25–16:35 EPSC2022-103
VLT/SPHERE imaging survey of D>100 km asteroids: Final results and synthesis
Pierre Vernazza, Marin Ferrais, Laurent Jorda, Josef Hanus, Benoit Carry, Michael Marsset, Miroslav Brož, and Roman Fetick and the HARISSA team
- 16:35–16:45 EPSC2022-949
Asteroid spin-states of a 4 Gyr-old collisional family.
Dimitrios Athanasopoulos, Josef Hanuš, Chrysa Avdellidou, Roberto Bonamico, Marco Delbo, Matthieu Conjat, Andrea Ferrero, Kosmas Gazeas, Jean-Pierre Rivet, Nick Sioulas, and Gerard Van Belle and the Ancient Asteroids team
- 16:45–16:55 EPSC2022-1030
Hubble Asteroid Hunter: Identifying asteroid trails in Hubble Space Telescope images
Pablo García Martín, Sandor Kruk, Marcel Popescu, Bruno Merín, Max Mahlke, Benoît Carry, Ross Thomson, Samet Karadag, Elena Racero, Fabrizio Giordano, Deborah Baines, Javier Durán, Guido de Marchi, René Laureijs, Karl R. Stapelfeldt, and Robin W. Evans
- 16:55–17:00 **Discussion**

CE4 | Prize Lectures

- 17:30–18:30 **Prize Lectures**

Room Manuel de Falla | Wed, 21 Sep 2022

BR3 | Briefing Wednesday 21 September 2022

08:30–09:00 **Briefing Wednesday 21 September 2022**

KLD3 | Debate lecture OPS: "Uranus and Neptune - on ice or on the rocks?" by Thibault Cavalié and Nick Teanby

Convener: Thibault Cavalié

09:15–09:45 **Debate lecture OPS: "Uranus and Neptune - on ice or on the rocks?" by Thibault Cavalié and Nick Teanby**

Break

TP6 | Martian dust and clouds: from lab to space

Convener: Olga Muñoz | Co-conveners: Jonathan Merrison, Gerhard Wurm, Ann Carine Vandaele, Hannakaisa Lindqvist, Michael Wolff
Chairperson: Ann Carine Vandaele

10:00–10:15 EPSC2022-137

A lower-than-expected saltation threshold at Martian pressure and below

Philippe Claudin, Bruno Andreotti, Jens Jacob Iversen, Jonathan P Merrison, and Keld Romer Rasmussen

10:15–10:25 EPSC2022-269

Laboratory investigation of dust resuspension mechanisms under Martian conditions of low density CO₂

Andebo Abesha Waza, Jens Jacob Iversen, Marco Peiteado, Teresa Jardiel, Keld Rømer Rasmussen, and Jonathan Peter Merrison

10:25–10:35 EPSC2022-209

Lifting Dust Aggregates in Electric Fields

Florence Chioma Onyeagusi, Felix Jungmann, Jens Teiser, and Gerhard Wurm

10:35–10:50 EPSC2022-13

A laboratory study on sand grain impacts and their role in releasing fine dust into the Martian atmosphere

Tim Becker, Gerhard Wurm, and Jens Teiser

10:50–11:00 EPSC2022-573

Dust Devil frequency of occurrence at Jezero crater and radiative effects as derived by MEDA-RDS

Victor Apestigue, Daniel Toledo, and Ignacio Arruego and the MEDA and ATM team

11:00–11:10 EPSC2022-230

Physical characterization of dust devils at Jezero crater from Mars2020/MEDA data

Ricardo Hueso, Teresa del Río-Gaztelurrutia, Asier Munguira, Agustín Sánchez-Lavega, Naomi Murdoch, Claire Newman, Mark Lemmon, Víctor Apéstigue, Daniel Toledo, Ignacio Arruego, Daniel Viudez-Moreiras, Álvaro de Vicente-Retortillo, Manuel de la Torre-Juarez, Ralph Lorenz, Germán Martínez, Jose Antonio Rodríguez-Manfredi, Leslie Tamppari, Sara Navarro, Javier Gómez-Elvira, and Ari-Matti Harri and the The Mars 2020 ATM team

11:10–11:20 EPSC2022-365

From Reconstructing to Monitoring Martian Dust Storms

Luca Montabone, Michel Capderou, François Forget, Sandrine Guerlet, Timoté Lombard, Ehouarn Millour, and Roland Young

11:20–11:30 EPSC2022-777

Detection and characterization of clouds at twilight by MEDA-RDS for the first 365 sols

Daniel Toledo, Victor Apéstigue, Ignacio Arruego, Mark Lemmon, Francisco Montoro, Margarita Yela, Agustín Sanchez-Lavega, Priya Patel, Daniel Viudez-Moreiras, German Martínez, Michael D. Smith, Alvaro Vicente-Retortillo, Manuel de la Torre Juarez, José Antonio Rodríguez-Manfredi, and Raul Rodríguez

Coffee break

TP3 | Forward to the Moon: The Science of Exploration

Convener: Gregory Schmidt | Co-conveners: Mahesh Anand, Kristina Gibbs, Brian Day

Chairpersons: Kristina Gibbs, Gregory Schmidt, Brian Day

- 12:00–12:10 EPSC2022-97
Extensive volcanic activity within the Posidonius crater, nearside of the Moon
Shreekumari Patel, Animireddi V Satyakumar, and Mohamed Ramy El-maarry
- 12:10–12:20 EPSC2022-280
Regional and Local Geomorphologic Mapping of the Aristarchus Plateau
Hannes Bernhardt, Jaclyn D. Clark, and Mark. S. Robinson
- 12:20–12:30 EPSC2022-272
Lunar Silicic Magma Genesis: Insights from Rhyolite-MELTS Modeling
Srinidhi Ravi, Christy Till, and Mark Robinson
- 12:30–12:40 EPSC2022-295
Insights into Lunar Differentiation, Evolution, and Chronology from the Artemis Program
Daniel Moriarty and Noah Petro
- 12:40–12:50 EPSC2022-646
Homogeneous versus heterogeneous lunar mantle: Constraints from secondary crust production
Irene Bernt, **Ana-Catalina Plesa**, Sabrina Schwinger, Max Collinet, and Doris Breuer
- 12:50–13:00 EPSC2022-346
Four candidate landing sites at the southern lunar polar region to drill water ice using solar powered missions
Akos Kereszturi, Sarah Boazman, David Heather, Richard Tomka, and Tristram Warren
- 13:00–13:10 EPSC2022-530 | **MI**
Analysis of the Lunar South Polar Region for PROSPECT, NASA/CLPS
Sarah Boazman, Akos Kereszturi, **David Heather**, Elliot Sefton-Nash, Csilla Orgel, Richard Tomka, Berengere Houdou, and Xavier Lefort
- 13:10–13:20 EPSC2022-533 | **MI**
The ESA PROSPECT Payload: Science Activities and Development Status
David Heather, Richard Fisackerly, Roland Trautner, Berengere Houdou, Sarah Boazman, Simeon Barber, and Philipp Reiss and the PROSPECT Science Team and Industrial Consortium
- 13:20–13:30 EPSC2022-1164
Constraints on the lunar magnetic sources location using orbital magnetic field data
Joana S. Oliveira, Foteini Vervelidou, Mark A. Wieczorek, and Marina Díaz Michelena
- Lunch break
- Chairpersons: Gregory Schmidt, Kristina Gibbs, Brian Day
- 15:30–15:40 EPSC2022-300
Energetic neutral atom emission and sputtering of lunar regolith from 3D simulations
Paul S. Szabo, Andrew R. Poppe, Herbert Biber, Andreas Mutzke, Julian Pichler, Noah Jäggi, André Galli, Peter Wurz, and Friedrich Aumayr
- 15:40–15:50 EPSC2022-444
Sputtering of the lunar surface by solar wind: New data directly from the lunar surface
Martin Wieser, Stas Barabash, Xiao-Dong Wang, Aibing Zhang, Chi Wang, and Wenjing Wang
- 15:50–16:00 EPSC2022-551
Measurement of micron-sized ejecta generated from oblique impact experiments with regolith simulant targets
Yanwei Li, Jianqun Yang, Maximilian Sommer, Xingji Li, and Ralf Srama
- 16:00–16:10 EPSC2022-622
Spectral properties of the lunar Tsiolkovskiy crater through Spectral Units identification and analysis
Gloria Tognon, Francesca Zambon, Cristian Carli, and Matteo Massironi

- 16:10–16:20 EPSC2022-626
Effects of regolith porosity on exospheric gas release and retention
Menelaos Sarantos, Spiridon Tsavachidis, and Parvathy Prem
- 16:20–16:30 EPSC2022-916
Destruction rates of lunar rocks (1cm to 60 m) by impact shattering
Ottaviano Ruesch, Rachael Marshal, Wajiha Iqbal, Jan Hendrik Pasckert, Carolyn van der Bogert, and Markus Pasckert
- 16:30–16:40 EPSC2022-747
Using an analog lunar sample return mission to grow a lunar sample community and prepare for human return to the Moon's surface. An update on the progress of the ANGSA initiative.
Charles Shearer and the ANGSA Science Team
- 16:40–16:50 EPSC2022-1117
A unique lunar gas extraction event as part of the ANGSA Program and the lessons learned for a new generation of sample return missions
Francesca McDonald, Timon Schild, Nathan Bamsey, Matteo Apolloni, Riccardo Biella, Yuriy Butenko, Alan Dowson, Scott Eckley, Juliane Gross, Brad Jolliff, Robert Lindner, Advenit Makaya, Francis McCubbin, Alex Meshik, Rita Parai, Olga Pravdivtseva, Zach Sharp, Charles Shearer, Ryan Zeigler, and Angsa Science Team
- 16:50–17:00 **Discussion**
- Coffee break
- Chairpersons: Gregory Schmidt, Kristina Gibbs, Brian Day
- 17:30–17:40 EPSC2022-93
NASA Moon Trek's New Visualization and Analysis Tools
Emily Law and Brian Day
- 17:40–17:50 EPSC2022-92
Lunar regolith properties derived from LRO/Diviner data and thermophysical modelling
Johanna Bürger, Bastian Gundlach, Jürgen Blum, Paul Hayne, Matthias Läuter, and Tobias Kramer
- 17:50–18:00 EPSC2022-147
Photometric Modelling for Chang'e 5 Landing Site and Reiner Gamma Swirl
Marcel Hess, Christian Wöhler, and Le Qiao
- 18:00–18:10 EPSC2022-871
Photometry of rock-rich surfaces on the Moon
Rachael Martina Marshal, Ottaviano Ruesch, Christian Wöhler, Kay Wohlfarth, and Sergey Velichko
- 18:10–18:20 EPSC2022-1095
Mini-RF Bistatic Observations of South Polar Craters on the Moon
Wes Patterson, Angela Stickle, and Gareth Morgan
- 18:20–18:30 EPSC2022-288
Is it time for the human data analyst to retire in the era of artificial intelligence (AI)? A critical examination in scientific data analysis.
Urs Mall and Daniel Kloskowski

Room Manuel de Falla | Thu, 22 Sep 2022

BR4 | Briefing Thursday 22 September 2022

08:30–09:00 **Briefing Thursday 22 September 2022**

KLD4 | Keynote lecture EXOA and Journal Editor Talk: "Astrobiology - Origin, Evolution, Distribution, and Future" by Barbara Cavalazzi

Convener: Séverine Robert

09:15–09:45 **Keynote lecture EXOA and Journal Editor Talk: "Astrobiology - Origin, Evolution, Distribution, and Future" by Barbara Cavalazzi**

Break

TP5 | Mars Science and Exploration

Convener: Alejandro Cardesin-Moinelo | Co-conveners: Lucie Riu, Eleni Bohaceck, Elliot Sefton-Nash, Colin Wilson, Csilla Orgel

Chairpersons: Eleni Bohaceck, Elliot Sefton-Nash

Mars Surface and Subsurface

- 10:00–10:10 EPSC2022-1024 | **MI**
The search for liquid water below the South Polar Layer Deposits: where we stand?
 Elena Pettinelli, **Sebastian Lauro**, Elisabetta Mattei, Barbara Cosciotti, David Stillman, Graziella Caprarelli, and Roberto Orosei
- 10:10–10:20 EPSC2022-1052
Using MARSIS signal attenuation to constrain SPLD basal temperature and composition
Sebastian Lauro, Elena Pettinelli, Graziella Caprarelli, Jamaledin Baniamerian, Elisabetta Mattei, Barbara Cosciotti, David Stillman, Katie Primm, Francesco Soldovieri, and Roberto Orosei
- 10:20–10:30 EPSC2022-457
SHARAD Data Analysis with High Resolution Digital Terrain Models
Léopold Desage, Alain Herique, Wlodek Kofman, and Sonia Zine
- 10:30–10:40 EPSC2022-345
Overview of the facies and stratigraphy of a distal Delta remnant at the Kodiac butte (Jezero crater, Mars)
Gwénaél Caravaca, Gilles Dromart, Nicolas Mangold, Sanjeev Gupta, Stéphane Le Mouélic, Olivier Gasnault, Sylvestre Maurice, and Roger C. Wiens
- 10:40–10:50 EPSC2022-1068
Scientific performances evaluation of the Raman Laser (RLS) FM-instrument for Exomars mission to Mars
Fernando Rull, Andoni Moral, Guillermo Lopez-Reyes, Carlos Perez, Laura Seoane, Jesus Zafra, Marco Veneranda, Jose Antonio Manrique, Eduardo Rodriguez, Pablo Rodriguez, Tomás Belenguer, and Olga Prieto
- 10:50–11:00 EPSC2022-391
Simulation and optimization of Ma_MISS surveys
Lorenzo Rossi, Marco Ferrari, Maria Cristina De Sanctis, Alessandro Frigeri, Simone De Angelis, Nicole Costa, Francesca Altieri, Michelangelo Formisano, and Eleonora Ammannito
- 11:00–11:10 EPSC2022-991
Extraction and derivatisation of organic molecules on Mars: optimising sample preparation under MOMA instrument conditions
Rachel Gonthier, Clara Azémard, Fabien Stalport, Naila Chaouche, Kevin Lepot, and Hervé Cottin
- 11:10–11:20 EPSC2022-249
Exomars landing: a geomechanical approach to impact characterization
Adriano Tullio, Francesca Mancini, Alessio Aboudan, Fabio Calantropio, Alvaro Martinez Barrio, Andrea Pacifici, and Gian Gabriele Ori
- 11:20–11:30 **Discussion**

TP4 | Mars Surface and Interior

Convener: Ernst Hauber | Co-conveners: Solmaz Adeli, Ana-Catalina Plesa, Maurizio Pajola, Rickbir Bahia, Lisanne Braat
Chairpersons: Ana-Catalina Plesa, Ernst Hauber

InSight, Geophysics, and Tectonics

- 12:00–12:10 EPSC2022-408
Using the HP3 mole on InSight to probe the thermal and mechanical properties of the Martian regolith
Tilman Spohn, Matthias Grott, Nils Müller, and Troy Hudson and the HP-cubed team
- 12:10–12:20 EPSC2022-400
Origins of crustal layering beneath the InSight landing site (and elsewhere)
Mark A. Wieczorek and the InSight Crust Working Group
- 12:20–12:30 EPSC2022-988
The surface magnetic field environment from InSight
Anna Mittelholz, Catherine L. Johnson, Matthew O. Fillingim, Steve Joy, Benoit Langlais, Shea N. Thorne, Mark Wieczorek, Sue Smrekar, and W. Bruce Banerdt
- 12:30–12:40 EPSC2022-255
A new mechanism for the formation of the Martian dichotomy
Valentin Bonnet Gibet, Chloé Michaut, and Mark Wieczorek
- 12:40–12:50 EPSC2022-1126 | **MI**
Seismicity unveils tectonics in Cerberus Fossae, Mars
Simon C. Stähler, Anna Mittelholz, Clément Perrin, Taichi Kawamura, Doyeon Kim, Martin Knapmeyer, Géraldine Zenhäusern, John Clinton, Domenico Giardini, Philippe Logonné, and W. Bruce Banerdt
- 12:50–13:00 EPSC2022-803
The core radius of Mars: a historical perspective
Martin Knapmeyer and Michaela Walterová
- 13:00–13:10 EPSC2022-59
Clues to the subsurface fault pattern of circum-Tharsis wrinkle ridges
Oguzcan Karagoz, Thomas Kenkmann, and Gerwin Wulf
- 13:10–13:20 EPSC2022-116
Tectonic and hydrothermal activity at the edge of the Borealis impact basin in Valles Marineris
Daniel Mège, Joanna Gurgurewicz, Frédéric Schmidt, Richard A Schultz, Sylvain Douté, and Benoit Langlais
- 13:20–13:30 EPSC2022-1105
Fault scaling at Memnonia Fossae, Mars: Displacement-length relationship derived from HRSC data
Isik Yazici, Ernst Hauber, and Daniela Tirsch

EP4 | Europlanet Society General Assembly

13:45–15:15 **Europlanet Society General Assembly**

TP4 | Mars Surface and Interior

Convener: Ernst Hauber | Co-conveners: Solmaz Adeli, Ana-Catalina Plesa, Maurizio Pajola, Rickbir Bahia, Lisanne Braat
Chairpersons: Ernst Hauber, Solmaz Adeli

Present and Future Rovers

- 15:30–15:40 EPSC2022-1112
The Curiosity rover investigates an aridification sequence in the layered sulfate-bearing unit.
William Rapin, Rachel Sheppard, Gilles Dromart, Juergen Schieber, Ben Clark, Linda Kah, Dave Rubin, Bethany Ehlmann, Sanjeev Gupta, Gwenael Caravaca, Nicolas Mangold, Erwin Dehouck, Stéphane Le Mouélic, Olivier Gasnault, Joanna Clark, Alexander Bryk, William Dietrich, Nina Lanza, and Roger Wiens

- 15:40–15:50 EPSC2022-508
Investigation of the stratigraphic and chemical relationships between Bradbury and Siccar Point lithostratigraphic groups in Gale crater, Mars
Laetitia Le Deit, Gwénaél Caravaca, Nicolas Mangold, Stéphane Le Mouélic, Erwin Dehouck, Candice C. Bedford, Roger C. Wiens, Jeffrey R. Johnson, Olivier Gasnault, Olivier Forni, and Nina Lanza
- 15:50–16:00 EPSC2022-1184
APXS-determined compositional diversity of eolian Siccar Point group sandstones, Gale crater Mars: Implications for provenance and timing of events
Lucy Thompson, John Spray, Ralf Gellert, Rebecca Williams, Jeffrey Berger, Catherine O'Connell-Cooper, Albert Yen, Michael McCraig, Scott VanBommel, and Nicholas Boyd
- 16:00–16:10 EPSC2022-54
The nature of igneous olivine cumulate rocks in Jezero crater, Mars: A PIXL perspective
Yang Liu, Abigail Allwood, Allan Treiman, Mariek Schmidt, Tanya Kizovski, Michael Tice, Joel Hurowitz, Jesper Henneke, David Pedersen, Scott VanBommel, Michael Jones, Benton Clark, Christopher Herd, Paul Asimow, Adrian Brown, Abigail Knight, and Brendan Orenstein and the the PIXL team
- 16:10–16:20 EPSC2022-1098 | **MI**
Sedimentary and stratigraphic observations at the Jezero western delta front using Perseverance cameras: initial constraints on palaeoenvironments
Sanjeev Gupta and the NASA Mars2020 science team
- 16:20–16:30 EPSC2022-460
No evidence of reflectors on Jezero radargrams
Federico Mansilla, Maria Paz Zorzano, Iraklis Giannakis, and Javier Ruiz
- 16:30–16:40 EPSC2022-104
Ma_MISS: a powerful tool for exploring the Martian subsurface
M. Cristina De Sanctis, Francesca Altieri, Simone De Angelis, Marco Ferrari, Alessandro Frigeri, sergio Fonte, Eleonora Ammannito, Jeremy Brossier, Marco Giardino, Andrea Apuzzo, nicole costa, and lorenzo rossi
- 16:40–16:50 EPSC2022-1256
CLUPI, Close-UP Imager on the ExoMars rover mission, Status and Science Operations Preparations/Simulations First Results
Jean-Luc Josset and the CLUPI Team
- 16:50–17:00 EPSC2022-55
Identifying heterogeneity sizes in the subsurface with WISDOM, the GPR of the ExoMars mission
Émile Brighi, Valérie Ciarletti, Alice Le Gall, François De Lamberterie, Yann Herve, and Nicolas Oudart

Coffee break

TP5 | Mars Science and Exploration

Convener: Alejandro Cardesin-Moinelo | Co-conveners: Lucie Riu, Eleni Bohaceck, Elliot Sefton-Nash, Colin Wilson, Csilla Orgel
 Chairpersons: Lucie Riu, Alejandro Cardesin-Moinelo

Overviews

- 17:30–17:40 EPSC2022-1136 | **MI**
Mars Express and Trace Gas Orbiter – status, science highlights, plans
Colin Wilson, Dmitri Titov, Patrick Martin, Alejandro Cardesin Moinelo, David Frew, John Carter, Marco Giuranna, Mats Holmstrom, Franck Montmessin, Roberto Orosei, Martin Paetzold, Thomas Roatsch, Agustin Sanchez-Lavega, Oleg Korablev, Igor Mitrofanov, Nicolas Thomas, and Ann Carine Vandaele
- 17:40–17:50 EPSC2022-241 | **MI**
Two Martian years at Mars: Observations by NOMAD on ExoMars Trace Gas Orbiter
Ann Carine Vandaele, Frank Daerden, Ian R. Thomas, Cédric Depiesse, Justin Erwin, Zachary Flimon, Lori Neary, Arianna Piccialli, Bojan Ristic, Loïc Trompet, Sébastien Viscardy, Yannick Willame, Shohei Aoki, Jean-Claude Gérard, Geronimo Villanueva, Jon Mason, Manish Patel, Giancarlo Bellucci, Miguel Lopez-Valverde, and Jose Juan Lopez-Moreno

- 17:50–18:00 EPSC2022-800 | **MI**
The ExoMars Rosalind Franklin Rover: Continuing Mission Preparations
Elliot Sefton-Nash, Jorge L. Vago, Ines Torres, Romain Fonteyne, Csilla Orgel, Rickbir Bahia, Luc Joudrier, Frederic Haessig, Adam Williams, Caglayan Guerbuez, Tanya Lim, Andrew J. Ball, and Pia Mitschdoerfer
- 18:00–18:10 EPSC2022-38 | **MI**
Results from MRO's High Resolution Imaging Science Experiment (HiRISE), 2006-2022
Alfred McEwen, Shane Byrne, and Candice Hansen
- 18:10–18:20 EPSC2022-762
Perseverance rover sampling across the Jezero crater floor: geological diversity and returned sample science potential
Keyron Hickman-Lewis and the Mars 2020 Science Team
- 18:20–18:30 EPSC2022-608
The COSPAR Planetary Protection Requirements for Space Missions to Mars
Karen Olsson-Francis, Peter Doran, Viacheslav Ilyin, Francois Raulin, Petra Rettberg, **Maria-Paz Zorzano**, Athena Coustenis, Gerhard Kminek, and Niklas Hedman and the COSPAR Panel on Planetary Protection

CE7 | Decadal Survey

Convener: Leigh Fletcher

18:45–19:45 **Decadal Survey**

EP5 | Agency Night

Convener: Nigel Mason

20:00–21:30 **Agency Night**

Room Manuel de Falla | Fri, 23 Sep 2022

BR5 | Briefing Friday 23 September 2022

08:30–09:00 **Briefing Friday 23 September 2022**

KLD5 | Debate MITM: "Perspectives for cubesats and smallsats as part of Europe's solar system exploration fleet"

Convener: Colin Wilson

09:15–09:45 **Debate MITM: "Perspectives for cubesats and smallsats as part of Europe's solar system exploration fleet"**

Break

TP4 | Mars Surface and Interior

Convener: Ernst Hauber | Co-conveners: Solmaz Adeli, Ana-Catalina Plesa, Maurizio Pajola, Rickbir Bahia, Lisanne Braat

Chairpersons: Solmaz Adeli, Maurizio Pajola

Composition, Mineralogy, and other topics

10:00–10:10 EPSC2022-185

Global distribution of Mars aqueous alteration minerals from orbit: the MOCAAS project

John Carter, Lucie Riu, François Poulet, Jean-Pierre Bibring, Yves Langevin, and Brigitte Gondet

10:10–10:20 EPSC2022-132

Estimation of H₂O content (in wt%) stored in hydrated silicates at Mars and implications for In Situ Resource Utilization (ISRU)

Lucie Riu, John Carter, and François Poulet

10:20–10:30 EPSC2022-138

CaliPhoto: a powerful method to identify rock powders on Mars

Frédéric Foucher, Nicolas Bost, Guillaume Guimbretière, Keyron Hickman-Lewis, Aurélie Courtois, Lydie Luengo, Etienne Marceau, Philippe Martin, and Frances Westall

10:30–10:40 EPSC2022-947

Mineralogy of shergotite Dar al Gani 476 as an analogue of Martian surface

Safoura Tanbakouei, Joseph R. Michalski, and Shawn P. Wright

10:40–10:50 EPSC2022-548

Volumetric changes of mud on Mars: Evidence from laboratory simulations

Petr Brož, Ondrej Kryza, Susan Conway, Adriano Mazzini, **Ernst Hauber**, Matthew Sylvest, and Manish Patel

10:50–11:00 EPSC2022-1023

Large-scale mapping of polygons on Earth and Mars

Lida Fanara, Ronny Hänsch, Ernst Hauber, Klaus Gwinner, Tabea Rettelbach, Guido Grosse, and Hauke Hussmann

11:00–11:10 EPSC2022-750

Studying polar CO₂ jet eruptions and the state of the lower martian atmosphere with help from the Planet Four citizen science project

Ganna Portyankina, Timothy Michaels, Megan E. Schwamb, Klaus-Michael Aye, and Candice J. Hansen

11:10–11:20 EPSC2022-847

Spectral variability of the south polar region of Mars and implications for hydration and sulfate mineralogy

Océane Barraud, John Carter, Mathieu Vincendon, and Aurelien Stcherbinine

11:20–11:30 EPSC2022-737

Some remarks about Martian "blueberries" and spherical concretion from Utah

Natalia Zalewska and Leszek Czechowski

Coffee break

Chairpersons: Lisanne Braat, Rickbir Bahia

Geomorphology: Water, Ice and Wind

- 12:00–12:10 EPSC2022-413
Modeling of fluvial episodic events at a channel in Nepenthes Mensae region of Mars
Antonio Molina, Miguel Ángel de Pablo, Isabel Herreros, Alejandro Pertuz Domínguez, Guillermo Roldán Caselles, and Andrea Martínez
- 12:10–12:20 EPSC2022-559
Evaluation of style, settings and timing of martian fluvial deposition troughs inverted channel studies.
Melissa Mirino, Matthew Balme, Peter Fawdon, and Peter Grindrod
- 12:20–12:30 EPSC2022-772
Multiple superposed inverted landforms on Mars
Harish, Vijayan Sivaprahasam, and Mohamed Ramy El-Maarry
- 12:30–12:40 EPSC2022-1123
Structure of channel-belt deposits within sinuous ridges on Earth and Mars
Kartikeya Singh Sangwan, Robert Barnes, Joel M. Davis, Sanjeev Gupta, and Abdallah S. Zaki
- 12:40–12:50 EPSC2022-180
Fresh Shallow Valleys and Exit Breach Mid-Latitude Craters: Formation Below a Thick Ice Cover
Alan Howard, Sharon Wilson, and Jeffrey Moore
- 12:50–13:00 EPSC2022-442
The record of warm-based glaciation on ancient Mars
Anna Grau Galofre, Kelin Whipple, Philip Christensen, and Susan Conway
- 13:00–13:10 EPSC2022-1033
The glacial landscape in Moreux crater versus a mountain glacier in Argyre, Mars: A comparative analysis
Mohamed Ramy El-Maarry and Elise Harrington
- 13:10–13:20 EPSC2022-957
Transverse Aeolian Ridges at the ExoMars Rover landing sites
Eleni Bohacek, Alexander Barrett, Elena Favaro, Matt Balme, and Elliot Sefton-Nash
- 13:20–13:30 EPSC2022-471
Aeolian bedforms formed by ice sublimation and vapor condensation on Louth crater ice, Mars.
Aurore Collet, Sabrina Carpy, Maï Bordiec, Marion Massé, Olivier Bourgeois, and Susan Conway

CE8 | Closing Ceremony

13:45–15:15 **Closing Ceremony**

EXO15 | Habitability and biosignatures for the search for life in our Solar system

Conveners: Mickael Baqué, Frédéric Foucher, Ruth-Sophie Taubner, Rosa de la Torre Noetzel, Alex Price, Silvana Pinna, Hector-Andreas Stavrakakis | Co-conveners: Kensei Kobayashi, Petra Rettberg, Jean-Pierre Paul de Vera, Daniela Billi, Lena Noack, Barbara Cavalazzi, Séverine Robert

Chairpersons: Silvana Pinna, Ruth-Sophie Taubner

- 15:30–15:50 EPSC2022-187 | **MI**
The search for extraterrestrial life and the problem of primitive life forms, now you see them, now you don't
Frances Westall, Laura Clodore, Frédéric Foucher, Tetyana Milojevic, Denise Kölbl, Pamela Guérillot, Keyron Hickman-Lewis, Barbara Cavalazzi, and Jorge Vago
- 15:50–16:00 EPSC2022-1195
EOS-ESTM: a flexible climate model for habitable exoplanets
Lorenzo BIASIOTTI, Paolo Simonetti, Giovanni Vladilo, Laura Silva, Giuseppe Murante, Stavro Ivanovski, Michele Maris, Sergio Monai, Erica Bisesi, and Jost von Hardenberg

- 16:00–16:10 EPSC2022-378
DNA Damage Protection for Enhanced Bacterial Survival Under Simulated Low Earth Orbit Environmental Conditions in Escherichia coli
Jaume Puig, Nastassia Knödlseeder, Jaume Quera, Manuel Algara, and Marc Güell
- 16:10–16:20 EPSC2022-962 | **MI**
The IR-COASTER project for Astrobiology experiments outside the International Space Station or as a payload for 6U Cubesats
fabien stalport, hervé cottin, noel grand, anais feron, cecile gaimoz, mathieu Gourichon, kristian harge, xavier landsheere, ines louison, florent mignon, sylvain triquet, lisa viallon, pascal zapf, isabelle savin de larclause, didier chaput, and christian mustin
- 16:20–16:40 EPSC2022-1055 | **MI**
Limits of life at spaceflight conditions: survival of lichens to simulated microgravity
Rosa de la Torre Noetzel
- 16:40–16:50 EPSC2022-1227
Exploring Europa's biological potential using machine learning and laboratory simulations
Alvaro del Moral, Dominic Siggs, Mark G. Fox-Powell, Victoria K. Pearson, and Karen Olsson-Francis
- 16:50–17:00 EPSC2022-918
The comprehensive 'MICRO-life detection platform' applied to in situ research at Mars and Icy Moons terrestrial analogs
Miguel Ángel Fernández-Martínez, Brady O'Connor, Louis-Jacques Bourdages, Catherine Maggiori, and Lyle Whyte
- Coffee break
- Chairpersons: Hector-Andreas Stavrakakis, Frédéric Foucher
- 17:30–17:40 EPSC2022-15
Identifying biosignatures in a Mars-analogue volcanic rock: The ~3.5 Ga Kitty's Gap chert
Laura Clodoré, Frédéric Foucher, Keyron Hickman-Lewis, Stéphanie Sorieul, Matthieu Réfrégiers, Guillaume Collet, and Frances Westall
- 17:40–17:50 EPSC2022-189 | **MI**
Survivability of Xanthoria parietina in simulated Mars conditions for 30 days
Christian Lorenz, Elisabetta Bianchi, Giovanni Poggiali, Giulia Alemanno, Renato Benesperi, John Robert Brucato, Stephen Garland, Jörn Helbert, Andreas Lorek, Alessandro Maturilli, Alessio Papini, Jean-Pierre de Vera, and Mickael Baqué
- 17:50–18:00 EPSC2022-275
Perchlorate-induced proteomic stress responses of Debaryomyces hansenii and their consequences for the habitability of Martian brines
Jacob Heinz, Joerg Doellinger, Deborah Maus, Andy Schneider, Peter Lasch, Hans-Peter Grossart, and Dirk Schulze-Makuch
- 18:00–18:10 EPSC2022-584
L-histidine in Saponite: Detection, Characterization and UV Degradation Studies for Biosignature Identification on Mars
John Robert Brucato, Cristina Garcia Florentino, Andrew Alberini, Teresa Fornaro, Juan Manuel Madariaga, and **Giovanni Poggiali**
- 18:10–18:20 EPSC2022-590
Analysis of aromatic organic salts with gas chromatography-mass spectrometry and implications for their detection at Mars surface with in situ experiments
Ophélie Mcintosh, Cyril Szopa, Caroline Freissinet, Arnaud Buch, and David Boulesteix
- 18:20–18:30 EPSC2022-1158
Looking for biosignatures in a pristine Mars analogue environment on Earth
Vera Palma, Nicasio T. Jiménez-Morillo, Francesco Sauro, Matteo Massironi, José M. De la Rosa, José A. González-Pérez, Bodgan P. Onac, Igor Tiago, Ana Teresa Caldeira, and Ana Z. Miller