

EUROPLANET 2024 RESEARCH INFRASTRUCTURE

**GLOBAL COLLABORATION &
INTEGRATION DEVELOPMENT**

NA1-T4

WorkshopSeries





EUROPLANET 2024 RESEARCH INFRASTRUCTURE
GLOBAL COLLABORATION & INTEGRATION DEVELOPMENT 2020–2024

The Europlanet

Workshop Series



Europlanet 2024 RI has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 871149

EPN-2024-RI's global collaboration and integration NA Task 4 aims to inspire and encourage planetary science and space technology development across borders in developed and developing countries and across the spectrum of academia, industry and civil society. In making the distributed planetary RI available to more scientists and industries worldwide, EPN-2024-RI will facilitate a more integrated and interconnected global planetary science community and stimulate the creation of opportunities that have the potential for immense impact on the environment, culture, socio-economic development and prosperity.

One of the actions in the global collaboration and integration NA Task 4 will be the organisation of training activities in African countries to create local experts with the skills and technical capability to work independently on planetary science projects, therefore producing a long-term goals creating conditions for new scientific partnerships between EU and non-EU countries.





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GLOBAL COLLABORATION & INTEGRATION DEVELOPMENT 2020–2024

“It is clear that space science and technology is an important tool for ensuring the sustainable use of natural resources and the creation of high-technology industrial sectors. Furthermore, it makes a considerable contribution to the creation of enabling environments for addressing a wide range of pressing challenges, including the need to create jobs, reduce poverty, manage resources sustainably, and develop rural areas. A formal space sector will assist Africa to realise the vision of a peaceful, united, and prosperous continent.”

AFRICAN SPACE POLICY

The Europlanet
Workshop
S e r i e s

NA1 T4-Global collaboration and development WorkshopSeries

Global collaboration and development WorkshopSeries will be a great way to develop skills as well as an opportunity to meet scientists, politicians and stakeholders to share ideas and experiences, create opportunity and build a network on Planetary Sciences.

2021:

Botswana (Local contact: Dr. F. Franchi, BIUST, Palapye, Botswana)

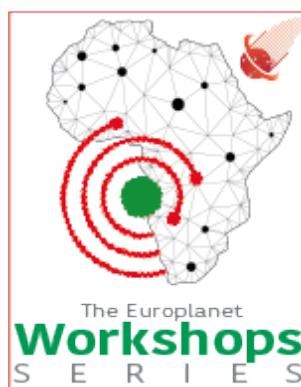
2022:

Ethiopia (Local contact: Dr. S. Kumurzhi, Istituto Italiano di Cultura, Addis Abeba, Ethiopia)

2023:

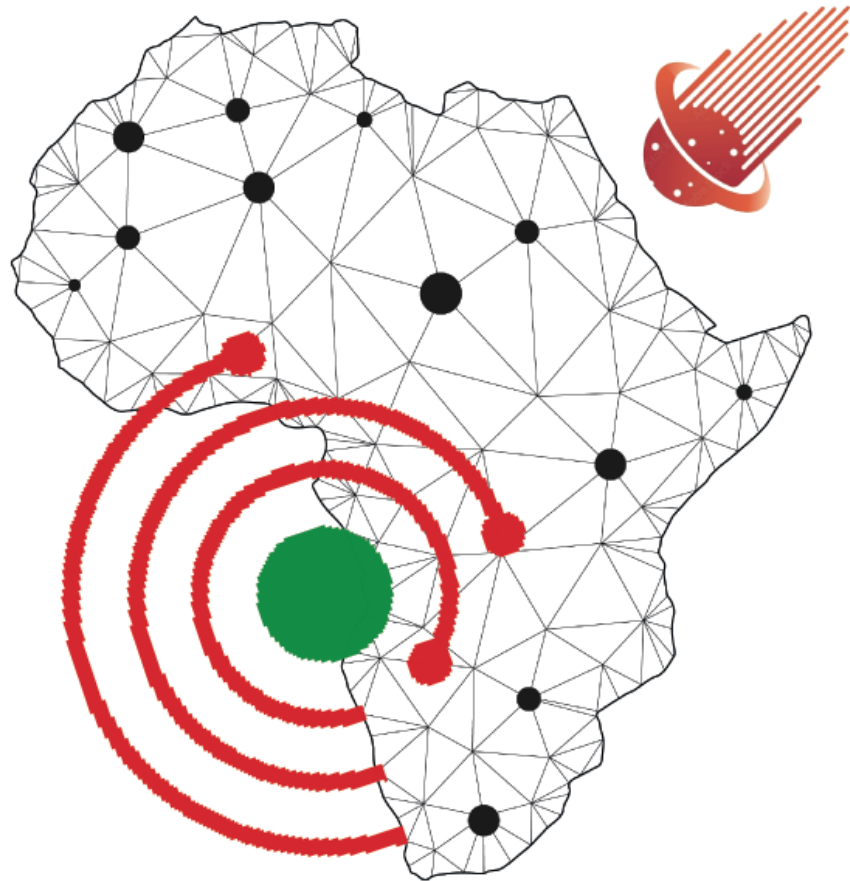
Morocco (Local contact: Prof. H. Chennaoui, Hassan II University, Casablanca, Morocco)

Argentina (Local contact: Dr. F. Gomez, CONICET, Cordoba, Argentina)



EUROPLANET 2024 RESEARCH INFRASTRUCTURE
GLOBAL COLLABORATION & INTEGRATION DEVELOPMENT 2020–2024

Rocks from Space and Planetary Defence
EPN 2024 RI WorkshopSeries
25.04.2021 - 28.04.2023
Casablanca, Morocco



The Europlanet
Workshops
S E R I E S

**EUROPLANET 2024 RESEARCH INFRASTRUCTURE
GLOBAL COLLABORATION & INTEGRATION DEVELOPMENT 2020–2024**



*Rocks from Space and Planetary Defence
EPN 2024 RI Workshop Series
25.04.2021 - 28.04.2023
Casablanca, Morocco*

WELCOME

The Europlanet 2024 RI together with the University of Bologna and Hassan II University of Casablanca, is organizing the third of the Global Collaboration and Integration Development Workshop Series in Casablanca, Morocco, which aims to bring together people interested in science and space technology, and create the opportunity to build and consolidate a African network in Space Science.

The Organizing Committee:

Prof. Barbara Cavalazzi

Prof. Assimo Maris

Prof. Hassna Chennaoui Aoudjehane

Mrs Anita Heward

Prof. Nigel Mason

Mrs Susmita Datta



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AIM

Space has become an attractive frontier for African countries that have launched satellites based on scientific, technological or political ambitions. Satellites are used for Earth observation, communication, navigation atmospheric studies, astronomical observations and military applications, and more.

This third EPN2024 RI Workshop on Rocks from Space and Planetary Defence will bring together space tech specialists, scientists and students to discuss current topics in this rapidly developing space field. This workshop format is focusing on content and collaboration, and target to create a African network in planetary science.

The training school Rocks from Space and Planetary Defence provides both theoretical knowledge and practical skills in meteorites, meteoroids, comets, asteroids, and impact craters, their origins, and their associated phenomena. Our solar system's small bodies (rock, dust, ice and metal) are leftovers from the formation of our solar system 4.6 billion years ago, that never evolved into planets. They are a lot like a fossil record of our early solar system, they can reveal secrets about our origins, and might offer clues about where the water and raw materials that made life possible on Earth came from. Students will acquire the fundamentals of processes that have shaped the terrestrial planets and their moons, and asteroids.

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The course will feature both overview lectures on background theory and laboratory activities including astromaterials in the form of meteorites and analogue materials. Recent and ongoing planetary missions will be highlighted.

The training school is organized in the following 4 modules:

Module 1 – Impact Craters

Module 2 – Planetary Surface

Module 3 – Meteorites

Module 4 – Geochemistry

Laboratory activities and seminar lectures will complete the program
Lectures will be delivered in French or English.

AIM

EUROPLANET 2024 RESEARCH INFRASTRUCTURE GLOBAL COLLABORATION & INTEGRATION DEVELOPMENT 2020–2024

25-28.04.2023 Training School PROGRAM

25 April 2023

10:00-10:30: Registration-Rocks from Space and Planetary Defence Europlanet Workshop Series.

10:30-10:40: Welcome-Earth Observation Techniques and Data Analysis Workshop (Prof. B. Cavalazzi; English and French).

10:40-10:50: Welcome from the Europlanet H24 RI Coordinator (Prof. N. Mason; English).

10:50-11:00: Welcome from Hassan II University of Casablanca (French).

11:00-11:30: Welcome from the Moroccan Geological Survey (French).

11:30-12:30 (60 min, Key Note): Exoplanets and their Atmospheres in the Era of James Webb Space Telescope Prof. Z. Benkhaldoun, in presence (French).

Lunch Break (60 min)

13:30-14:30 (60 min, lecture 3.1): Meteorites: A General Introduction, Prof. L. Folco, in presence (English).

14:30-14:40 (10 min): Network of Researchers on the Chemical Evolution of Life-NORCEL, Dr. S. Jheeta, online (English).

Coffee Break (20 min)

15:00-16:00 (60 min, lecture 1.1): Impact craters I, Dr. A.P. Rossi, online (English).

16:00-16:50 (50 min, lecture 4.1): Introduction to Geochronology/Introduction à la Géochronologie, Prof. V. Debaille, in presence (French).

16:50-17:40 (50 min, lecture 3.2): Chondritic Meteorites and their Record of the Planet Building era, Prof. L. Folco, in presence (English).

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25-28.04.2023 Training School PROGRAM

26 April 2023

09:00-10:00 (60 min, lecture 1.2): Impact craters II, Dr. A.P. Rossi, online (English).

Coffee Break (20 min)

10:20-11:20 (60 min, lecture 2.1): Observing Planetary Surfaces from the Orbit I/ Observer les Surfaces Planétaires depuis l'Orbite I, Dr. D. Baratoux, in presence (French).

11:20-12:00 (40 min, lecture 3.3): Non-Chondritic Meteorites and their Record of Planetary Differentiation, Prof. L. Folco, in presence (English).

12:00-13:00 (60 min, lecture 4.2): Cosmochemistry: Meteorite Dating / Cosmochimie: Datations des Météorites, Prof. V. Debaille, in presence (French).

Lunch Break (60 min)

14:00-14:50 (50 min, lecture 4.3): Cosmochemistry: Nucleosynthetic Anomalies/ Cosmochimie: Anomalies Nucléosynthétiques, Prof. V. Debaille, in presence (French).

14:50-15:40 (50 min, lecture 2.2): Observing Planetary Surfaces from the Orbit II/ Observer les Surfaces Planétaires depuis l'Orbite II, Dr. D. Baratoux, in presence (French).

Coffee Break (20 min)

16:00-17:00 (60 min, lecture 2.3): Remote Sensing Techniques I/ Un Panorama des Techniques de Télédétection I, Dr. D. Baratoux, in presence (French).

17:00-17:40 (40 min, Invited Seminar): Protection of Terrestrial Habitat with Space Architectures - The Space Weather Case Study, Dr. S.L. Ivanovski, in presence (English).

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27 April 2023

09:00-12:30 (210 min): Lab. activities, Prof. H. Chennaoui Aoudjehane, in presence (French).

Lunch Break (60 min)

14:00-14:50 (50 min, lecture 3.4): Expanding the Composition of the Solar System through Micrometeorites and Interplanetary Dust Particles (IDPs), Prof. L. Folco, in presence (English).

14:50-15:20 (30 min, Invited Seminar): African Meteorites: State of the Art, Prof. H. Chennaoui Aoudjehane, in presence (French).

Coffee Break (20 min)

15:40-16:20 (40 min, Invited Seminar): The Story of Motopi Pan Meteorite: from Impact Threat to Botswana Heritage, Prof. F. Franchi, in presence (English).

16:20-17:10 (50 min, Invited Seminar): Planetary Defense - Overview of how we can Address the Near-Earth Object (NEO) Impact Hazard, Dr. S.L. Ivanovski, in presence (English).

17:10-17:30 (20 min, Invited Seminar): Sorvegliati Spaziali Project: an innovative outreach project on Planetary Defense, Dr. D. Guidetti, in presence (English).

18:00-19:00: Visit of the Exhibit-Museum: Meteorites messengers of sky by ATTARIK Foundation.

25-28.04.2023 Training School PROGRAM

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25-28.04.2023 Training School PROGRAM

28 April 2023

09:00-09:45 (45 min, Invited Seminar): Impacts and Life, Prof. S.L. Cady, in presence (English).

09:45-10:30 (45 min, Invited Seminar): Astromaterial Curation, Prof. C. Smith, online (English).

Coffee Break (20 min)

10:50-11:30 (40 min, Invited Seminar): Mars Samples Return and the multidisciplinary potentials of Retuned Sample Science, Dr. K. Hickman-Lewis, in presence (English).

11:30-12:20 (50 min, Invited Seminar): Public Engagement in Astrophysics, Dr. C. Boccatto, in presence (English).

12:20-12:30: Closure of the Training School and certificate delivery.

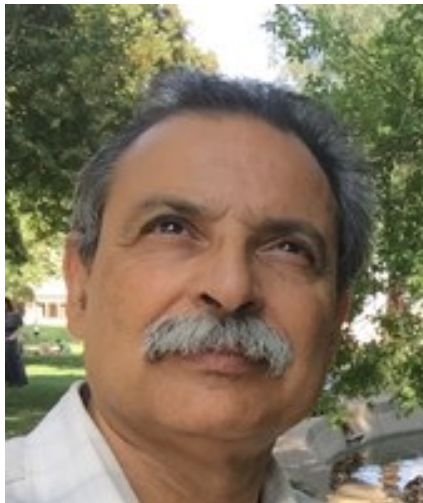
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INSTRUCTORS 1/7



Dr. David Baratoux, University Félix Houphouët-Boigny

David Baratoux is Senior Scientist at the French National Research Institute for Sustainable Development (IRD) and researcher at the laboratory Geosciences Environnement Toulouse. He is currently based at the University Félix Houphouët-Boigny in Côte d'Ivoire (2021-2025). His research interests include impact science, Martian, geology of Africa, and environmental science in mining environments. After an experience of 15 years in the field of Solar System Exploration (member of the ESA Mars Express mission) he dedicated himself to the promotion and development of Planetary Sciences in Africa, launching the African Initiative for Planetary and Space Science in 2017.



Prof. Zouhair Benkhaldoun, Cadi Ayyad University

Professor Zouhair Benkhaldoun graduated (PHD) in astrophysics from the university of Nice Sophia Antipolis in France and Cadi Ayyad University of Marrakech. He is also graduated (PHD) in Energetics from University of Provence in Marseille France. In 1985 he founds along with three other researchers the first Astrophysics laboratory in Morocco. He joins the University of Marrakech in 1992 and founded the laboratory of High Energy Physics and Astrophysics (LPHEA) in 1999. He also works on the creation of the first professional Astronomic Observatory at Oukaimeden inaugurated in 2007 and directs it since then. He founds in 1999 the Association d'Astronomie Amateur de Marrakech-3AM aiming to promote science of the universe towards the large public audience. He is also Arab Astronomical Society president and Atlas Dark Sky president. He is carrying an ambitious project to build a 2 meters telescope in Morocco.

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INSTRUCTORS 2/7



Dr. Caterina Boccato, CNR

Caterina Boccato is a technologist, with a degree in astronomy, at the INAF - Astronomical Observatory of Padua since 2000. She is currently the chief of the INAF Presidency office for education and public outreach. She manages and coordinates all the public engagement activities of the Institute throughout Italy. She is an Organizing Committee Elected Member of Commission C2 Communicating Astronomy with the Public and the Italian National Outreach Coordinator for the International Astronomical Union - IAU, and the chief of Outreach, media and Corporate Identity working Group for the European Astrobiology Institute (EAI).



Prof. Sherry L. Cady, Portland State University

Sherry L. Cady, an expert on how microbes living in extreme environments interact with and influence their surroundings. Her study of microbial biofilms in hot spring ecosystems and biosignatures in hydrothermal deposits has helped to reveal signs of life in chemical deposits of all ages. Relevant to this workshop are her interests in biosignature research that has relevance for astrobiology search strategies associated with impact structures on rocky planets. Cady has led research projects for NASA and NSF at NASA Ames Research Center, for the DOE at the Pacific Northwest National Laboratory, and for the Fulbright Program, NSF, and other philanthropic organizations while at Portland State University. She has served on numerous national advisory committees for NASA, NSF and the National Academy of Sciences, been a member of national and international space program review panels, and serves as the Editor-in-Chief of the international peer-reviewed journal *Astrobiology*.

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INSTRUCTORS 3/7



Prof. Hasnaa Chennaoui Aoudjehane,

She is the first woman to graduate in meteoritics in Morocco, Arab and African countries. She is director of GAIA Laboratory and Coordinator of the research center, and the name “Chennaoui” has been assigned to an asteroid in 2017. She received several honors among other the Paul Doistau-Émile Blutet Prize in 2009, in 2013 selected for the US International Visitors Leadership Program (IVLP) and in 2014 for the Women in Science Hall of Fame Award by the US Department of State. In 2018, she was elected Fellow of the Meteoritical Society in 2018. Hasnaa has been a member of the Meteoritical Society for two decades. She served on the Nomenclature Committee of the Meteoritical Society. In April 2019 she created the ATTARIK Foundation, an NGO dedicated to promoting planetary sciences.



Prof. Vinciane Debaille, Free University of Brussels

Vinciane Debaille is FNRS Senior Research Associate and Professor at the Université libre de Bruxelles in Brussels, Belgium. Her main research interests are related to the formation of the solar system and the evolution of the terrestrial planets, including Mars and the ancient Earth, by studying the isotope compositions of meteorites and Archean samples. For that, she is using long-lived (Sm-Nd, Lu-Hf, Pb-Pb, Rb-Sr, Re-Os), short-lived (^{142}Nd , ^{26}Mg) and stable (Fe, Cu, Zn, Ga) isotopes. She is participating in the Mars2020 program as Return Sample Scientist. She is a curator of the Antarctic Belgian meteorite collection.

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INSTRUCTORS 4/7



Dr. Federico Di Giacomo, INAF

Federico Di Giacomo obtained his degree in Astrophysics and Cosmology at the University of Bologna in 2013. Since 2015 he has been working at INAF, National Institut for Astrophysics, in the field of teaching and dissemination. He currently holds a research grant at INAF Astronomical Observatory of Padova, where he deals with the enhancement of INAF scientific heritage, as well as various teaching and outreach activities. In particular, this year Federico has been working on a research project devoted to the study of a few stellar catalogues, which were made in Padova in the second half of the nineteenth century. Federico carries out many other teaching and dissemination activities in the field of Astronomy, and Science in general.



Prof. Luigi Folco, University of Pisa

Luigi Folco (PhD, Open University, UK) is a Professor at the University of Pisa where he holds the Planetary Geology, Cosmochemistry, and Geowriting courses. For over 30 years his research interests have focused on the cosmochemistry of planetary materials (meteorites, micrometeorites) and the petrology of impact rocks, integrating mineralogical, geochemical and isotopic analyses. He has taken part in ten meteorite search expeditions to Antarctica and, since 2009, he has been the national coordinator of the "Antarctic Meteorites" project within the framework of the Italian National Program for Antarctic Research (PNRA). The International Astronomical Union Asteroid named Main Belt 7006 Folco asteroid after him for his contribution to research on planetary materials.

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INSTRUCTORS 5/7



Prof. Fulvio Franchi, BIUST

Prof. Franchi is a sedimentologist at BIUST in Botswana. He is the coordinator of the Pan African Planetary and Space Science Network (PAPSSN) and FAST4Future, both EU-funded projects promoting research and education in Space Science in Africa. After my PhD in Earth Science studying the astrobiological potential of carbonate mounds in the Moroccan Sahara, I have pursued a career at the crossroad between planetary science and carbonate sedimentology with a clear interest in biogeochemical pathways and astrobiology. I have successfully participated in NERC projects and led my institution into the Europlanet 2024 RI funded by INFRAIA Horizon2020. In 2018 I led the international effort for the discovery of the fragments of asteroid 2018 LA and took part in the analytical work that led to the characterization of the Motopi Pan Meteorite.

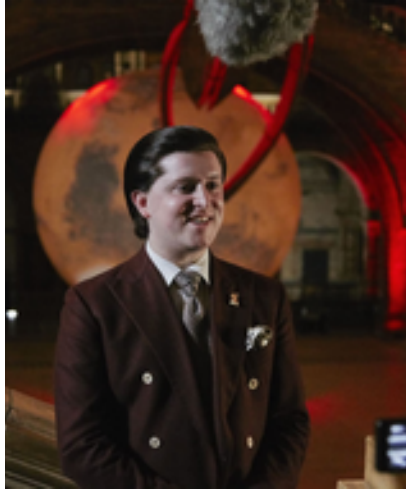


Dr Daria Guidetti, INAF

Daria Guidetti is an astrophysicist with a PhD in extragalactic magnetic fields, and a post-graduate diploma in Journalism and Institutional Communication of Science. After years of research activities, she devoted an increasing fraction of her time to institutional and freelance science communication. She currently manages and coordinates Sorvegliati Spaziali, a INAF national outreach project on Planetary Defense. She is a representative of Italy in the European Union Space Surveillance and Tracking dissemination activities and in the SKA Outreach Network. Her scicomm experiences include the outreach TV program “Destinazione Spazio” on a national channel, which she wrote and presented in 2018, and her first book published in 2019 on Magnetic Fields in the Universe. She has been awarded the de Paoli and Marchetti National Prize and the Ferraro National Prize.

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INSTRUCTORS. 6/7



Dr. Keyron Hickman-Lewis, NHM

Keyron Hickman-Lewis is a UK Space Agency Aurora Research Fellow at the Natural History Museum, London. His main research interests life in the co-evolution of life and environments throughout the Precambrian, biosignature detection in geological materials, high-resolution *in situ* biogeochemical studies of cellular microbial fossils, microbial mats, and microbialites and astrobiology with relevance to Mars. He is a Returned Sample Science Participating Scientist on the Mars 2020 Perseverance rover mission, working as part of an international team to study the geology of Jezero crater and select and characterise the geological samples that will be collected for return to Earth in the 2030s.



Dr Stavro L. Ivanovski, INAF

Stavro L. Ivanovski is a researcher at INAF–Trieste and an Adjunct Professor at the Trieste University. He is a mathematician and planetary scientist and his interests spread in various fields from small bodies and protoplanetary disks to planets and astrobiology. His expertise includes numerical modelling of non-spherical dust dynamics in the cometary atmosphere, magnetohydrodynamic instabilities at magnetospheres of Earth and Mercury, magnetoconvection simulations of sunspots, star-planet interaction and habitability in planetary systems. He has been working on several space missions such as DART/LICIACube, Rosetta, BepiColombo, Comet Interceptor, Hera and Ariel. He is strongly involved in planetary defence activities with his ejecta dust plume modelling the impact of DART on Dimorphos and as a Lead of the Ejecta Working Group of the Italian space mission LICIACube. As a graduated actor with theatre experience, he has a strong commitment to public engagement and outreach. The asteroid 1981 EP12 is named 11802 Ivanovski in his honour.

EUROPLANET 2024 RESEARCH INFRASTRUCTURE GLOBAL COLLABORATION & INTEGRATION DEVELOPMENT 2020–2024

INSTRUCTORS 7/7



Prof. Angelo Pio Rossi, Jacobs University

Angelo Pio Rossi is a planetary geologist. He graduated from Università d'Annunzio in Chieti-Pescara in 2000, and since then worked on Mars geology, impact cratering, and terrestrial analogues. After appointments at the European Space Agency (NL) and the International Space Science Institute (CH), he is now based at Constructor University (Bremen). Member of a few mission experiment teams (e.g. ESA MEX HRSC, MARSIS), he co-founded OpenPlanetary, supported various COSPAR Capacity Building workshops, and he coordinates the Virtual Access activity of the Europlanet Research Infrastructure.



Prof. Caroline L. Smith, NHM

Caroline L. Smith is Head of Earth Sciences Collections and Principal Curator of Meteorites at the Natural History Museum and I have been researching meteorites since the late 1990s. My experience and expertise in curation and collections care has been recognised by the award of a prestigious Aurora Fellowship from the UK Space Agency and consultancy work with industrial, academic and international space agency partners studying and planning for future Solar System sample return missions.

EUROPLANET 2024 RESEARCH INFRASTRUCTURE GLOBAL COLLABORATION & INTEGRATION DEVELOPMENT 2020–2024

PRACTICAL INFORMATION

When?

25-28 April 2023 at the Val d'Anfa Hotel, Casablanca, Morocco. The workshop will be held in hybrid mode.

Where?

Hôtel Club Val d'Anfa Casablanca
Angle Boulevard De L'Océan Atlantique et Boulevard De La Corniche Ain Diab,
Casablanca 20180, Maroc (<https://valdanfahotel.com/>).

Who is for?

Post-graduated students, researchers and professionals interested in planetary surface, impact craters and meteorites, and planetary defense.

Fee & Registration

The workshop is free of charge but places are limited!
Registration opens on 27/01/2023 and closes on 31/03/2023. It is compulsory and must be accompanied by a letter of interest and a brief curriculum vitae (max 1 page). You will receive via email confirmation of your acceptance. Participation in the workshop includes all coffee and lunch breaks.

Number of participants
25 people will be admitted in-person and up to 100 online.

Language

English or French

Deliverables

Attendees will be issued with a certificate of attendance. Rocks from Space and Planetary Defense materials will be available.

Travel Grants

Procedure to apply for The Europlanet Workshop Series fellowship (go to Travel Grants).

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PRE-REGISTRATION & FELLOWSHIPS

The Europlanet WorkshopSeries links travel grants to selected applicants who intend to physically attend the workshop. However, due to COVID-19, the physical presence can only be allowed to applicants from Botswana, and can not be guaranteed due to current COVID regulation.

Not just a travel grant! The Europlanet Workshop Series grants will provide opportunities for leveraging on established research networks to directly contribute to the applicant's current research and career.

Eligibility and Travel Grant Conditions

- You must be a PhD student or post-doc, lecturer, professor, or professional interested in Space Science.
- You must reside and work in Morocco.
- Grants (subject to the availability of funds and current COVID regulation) will be attributed only to selected applicants who intend to physically attend the workshop.
- All grant requests should be received no later than 31 March 2023, after that date the applications will not be considered.
- Only applications loaded on the [Registration Form](#) under Travel Grant Application will be eligible for evaluation.
- PhD students must also provide (attached to their letter of interest) a reference letter from their supervisor.
- Grants will cover a lump sum for an A/R trip, hotel accommodation and meals. More details will be reported in the acceptance letter.

To apply fill out the [Registration Form](#)

IMPORTANT: 31.03.2023 is the grant application deadline.

For more info contact: Prof. Barbara Cavalazzi barbara.cavalazzi@unibo.it and/or Prof. Assimo Maris assimo.maris@unibo.it

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COMMITTEE & CONTACTS

Scientific committee:

*Prof. Barbara Cavalazzi, Europlanet and University of Bologna
Prof. Hassna Chennaoui Aoudjehane, Attarik Foundation and Hassan II
University of Casablanca
Prof. Nigel Mason, Europlanet and University of Kent
Mrs Anita Heward, Europlanet and University of Kent
Prof. Gareth Davies, Vrije University of Amsterdam*

Organizing committee:

*Prof. Barbara Cavalazzi, Europlanet and University of Bologna
Prof. Assimo Maris, Europlanet and University of Bologna
Prof. Hassna Chennaoui Aoudjehane, Attarik Foundation and Hassan II
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Mrs Anita Heward, Europlanet and University of Kent
Prof. Nigel Mason, Europlanet and University of Kent
Mrs Susmita Datta, Europlanet and University of Kent*

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SUSTAINABLE GOALS

The Europlanet 2024 RI Strategy for Collaboration and Integration Development 2020–2024 has a key role to play in building a community, resilient infrastructure, fostering innovation, promoting education and gender equality, with sustainable goals such as combatting climate change, and preserving forests and oceans. The Strategy for Global Collaborations and Integration Development 2020–2024 has a vision for a better future, not simply as a shared guide but with an active intention to mobilise societal change and channel investments and strategies towards urgent global problems.





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eur  **PLANET 2024**
Research Infrastructure



ALMA MATER STUDIORUM
UNIVERSITÀ DI BOLOGNA
DIPARTIMENTO DI SCIENZE BIOLOGICHE,
GEOLOGICHE E AMBIENTALI

جامعة الحسن الثاني بالدار البيضاء
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UNIVERSITÉ HASSAN II DE CASABLANCA



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Links:

Europlanet RI H2024

<https://www.europlanet-society.org/europlanet-2024-ri/>
[Global Collaboration & Integration Development Strategic Plan 2020-2024](#)

Europlanet Society

<https://www.europlanet-society.org>

University of Bologna

<https://www.unibo.it/it>

Hassan II University of Casablanca

<https://www.univh2c.ma>



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