COSPAR News

January 2023 Issue 16

Message from the Editors

We are delighted to include in this issue a message from our new President, Professor Pascale Ehrenfreund, outlining her strategy for leading COSPAR into the coming years.

We also wish to draw your attention to a major step for our parallel COSPAR journal, *Space Research Today* (*SRT*), which has been the keystone information bulletin for COSPAR for many decades. The next issue of *SRT* will be in electronic form and freely available through the COSPAR website. Look out for the announcement of the new issue in March/April. This has been in the pipeline for some time and once established, alongside this e-newsletter, we can ensure that our community receives more dynamic and easier-to-access information about our activities.

Also in this issue you'll find reminders about upcoming COSPAR events (to catch the Early Bird rate for the Symposium, register by 22 February), information about recent special issues from one of our scientific journals, *Advances in Space Research*, a selection of highlights from the COSPAR world in 2022 as well as our pick of news items On the Radar in our space community and Opportunities.

We hope you enjoy reading this first issue of 2023 and we look forward to sharing more during the coming year. Don't forget to let us know if there's

- Space Science Highlights from the Past

something you'd like to see or read here.

All best wishes for a productive and happy 2023!

Leigh Fergus and Richard Harrison

COSPAR President's Message

Dear COSPAR Members and Associates, Dear Colleagues,

COSPAR's Strategic Action Plan for the period 2019-2023 gave our organization much needed tools to increase its visibility in the space science community, its impact on decision-makers, space agencies and the aerospace industry, and to return COSPAR to prominence. We want to thank the COSPAR community for supporting these achievements in the past few years.

Now we are excited for the year ahead. In 2023 we will start preparing the ground for the next COSPAR Strategic Action Plan, covering the period 2024-2028. We are looking forward to defining new activities with the COSPAR community that will address the Committee's future and sustainability, its influence and impact within the international space sector and the increased support that COSPAR can bring to the new generation of scientists and capacity building in space-developing countries. We will define new and reinforced strategic roles for COSPAR in Earth and planetary sciences, climate

change, advances in astronomy, and space exploration, including space environmental stewardship. Together we will elevate COSPAR to an even more recognized and visible platform for space research and technology in order to advise decision makers in today's fast developing and transforming international and multi-stakeholder space sector.

In these unprecedented times, COSPAR is privileged to use its long-standing international network to support, bridge, and rebuild international science cooperation for peace, knowledge, progress, and sustainable development. With the help of its multiple Scientific Commissions, Panels, Task Groups, Symposia and the Scientific Assemblies, COSPAR is a critical actor supporting the Sustainable Development Goals (SDGs) and peace.

On behalf of COSPAR we want to express our gratitude for your support and wish you a happy new year 2023.

Back to top

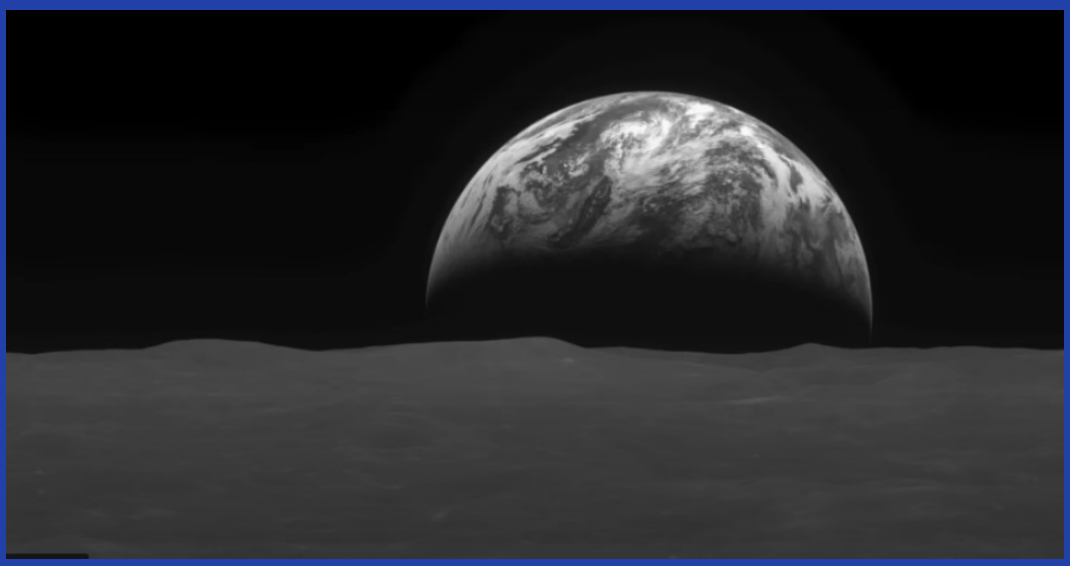
COSPAR Highlights of 2022

See our pick of key moments in the COSPAR world from the past year here.

Back to top

• South Korea's 1st Lunar Orbiter

Danuri, South Korea's first lunar orbiter, entered orbit in December and has sent its first images of the Moon's surface. According to a statement by the Korea Aerospace Research Institute (KARI) the images and videos taken will be used to select potential sites for a Moon landing in 2032. The orbiter's scientific mission will begin in February, including measuring magnetic strength and gamma rays.



(*Image credits: KARI*)

Back to top

5th COSPAR Symposium: Talks

Singapore: 16-21 April 2023

Three keynote talks set the tone on the first morning:
-Charles Elachi, from Caltech: "**Earth and Space Exploration with Small Satellites**"
-Anny Cazenave, LEGOS-CNES: "**Present-day Sea Level Rise: the Role of Satellite Observations**" presented by Jérome Benvéniste, ESA.
-and Yuya Nakamura, Axelspace Corp.: "How Can Next-gen Microsatellites Contribute to Space Science and Technology?"
Mengu Cho, Florence Tan and Shufan Wu will be giving plenary talks also. Details of all these lectures, and more, can be found at this link.

Back to top

5th COSPAR Symposium

Singapore: 16-21 April 2023

Don't miss the Roundtable of Space Agency Leaders on 17 April at 14h00 where you can hear:

- Rune Floberghagen, Head of Science, Applications & Climate Dept., Earth Observation Programmes Directorate, ESA
- Hitoshi Kuninaka, Director General, ISAS, JAXA
- Mioara Mandea, Head of Science Coordination Dept., Strategy Directorate, CNES
- K. Rajeev, Director, Space Physics Lab., ISRO

- In-Soo Yuk, Vice-President, KASI

More information is available here.

(*Image credit: Nanosatellite Angels/CNES/P57764CNE /ill /DUCROS David, 2018*)

Back to top

IDEA Session at 5th Symposium

COSPAR's Inclusion, Diversity, Equity and Accessibility is organising a session on the "Promotion of Women in Engineering, Research, and Science (POWERS): Addressing Challenges for Girls in STEM through Mentoring" on 19 April during the 5th COSPAR Symposium in Singapore. Full details and Panel members can be found here.

Back to top

45th COSPAR Scientific Assembly

Busan, South Korea: 13-21 July 2024

Save the Date—and posters to download and display here.

Back to top

COSPAR CBW: Did you know...?

...there's a dedicated Facebook account for participants of our Capacity Building Workshops (CBW)? Go to I was in a COSPAR Capacity Building Workshop to keep in touch with your colleagues on the course, to share photos and more.

Back to top

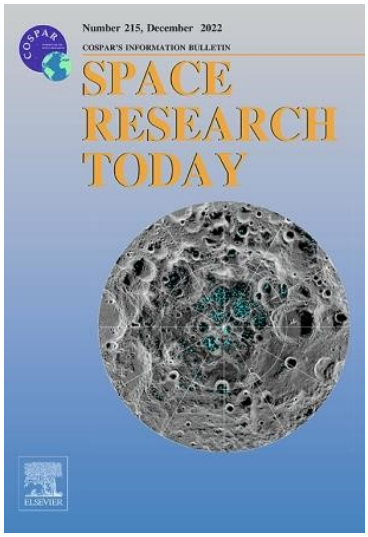
PoIS Calling

The Panel on Innovative Solutions (PoIS) is calling for participants. To find out more about this COSPAR Panel at the cutting edge of new technologies, watch this video and get in touch with Eric Smith. And don't forget to subscribe to our YouTube channel!

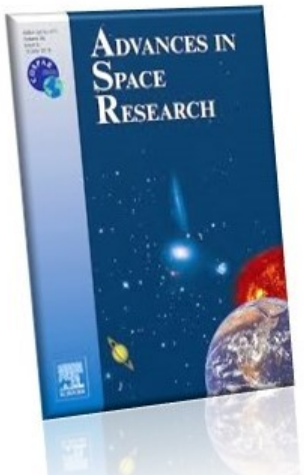
Back to top

SRT to Go Online

The last paper issue of COSPAR's official information bulletin, *Space Research Today* (*SRT*), was published in December. As of the first quarter of 2023 *SRT* will be freely accessible online, embedded on our website. Meanwhile, read a leading article from the last printed issue 2015: "The Three Laws of Space Exploration", free access, courtesy of Elsevier, until 19 June 2023.



Back to top



ASR Special Issues

Click here to find out more about recently published Special Issues of *Advances in Space Research (ASR)*.

Also, all articles of the first issue of the year of *ASR* (71/01) are OpenAccess for one complete year, courtesy of Elsevier. These 80 peer-reviewed articles (1,215 pages) can be downloaded at this link without a paid subscription to the journal.

Back to top

Italy National Report

Research by the Italian space science community is undertaken in all eight fields of COSPAR Scientific Commissions, but it is particularly active in the fields covered by SC B and E, leading, for example, the development of the Gravitational Reference Sensors for ESA's Laser Interferometer Space Antenna (LISA). Read about Italy's involvement in the beautifully presented Italian 2022 report, accessible on the COSPAR website.

Back to top

COSPAR Member News

Brazil

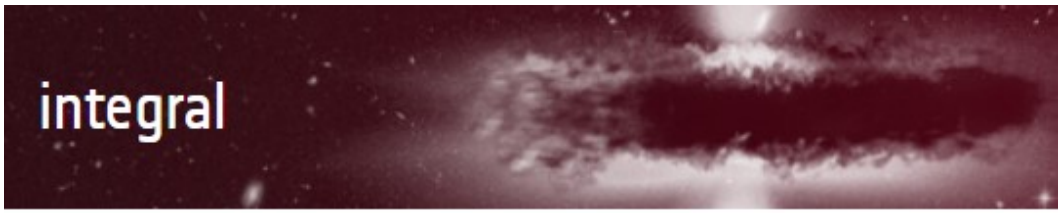
The Brazilian Space Agency (AEB), in partnership with the Center for Advanced Studies in Government and Public Administration at the University of Brasília (CEAG/UnB), has set out its Strategic Planning for the period 2023 to 2026.

Back to top

On the Radar

INTEGRAL

Scientists interested in supporting the extension of INTEGRAL can support the community petition by adding their signature to the top of the list at this link.



Back to top

News from Space Agencies

Mexico

The Mexican Space Agency (AEM), an agency of the Ministry of Infrastructure, Communications and Transport (SICT), and the Autonomous University of the State of Mexico (UAEMéx), are calling for young people to be trained in the first satellite support programme for agricultural productivity (Precision Agriculture) of its kind in Mexico.

AEM

AGENCIA ESPACIAL MEXICANA

Back to top

On the Radar

UK's First Satellite Launch

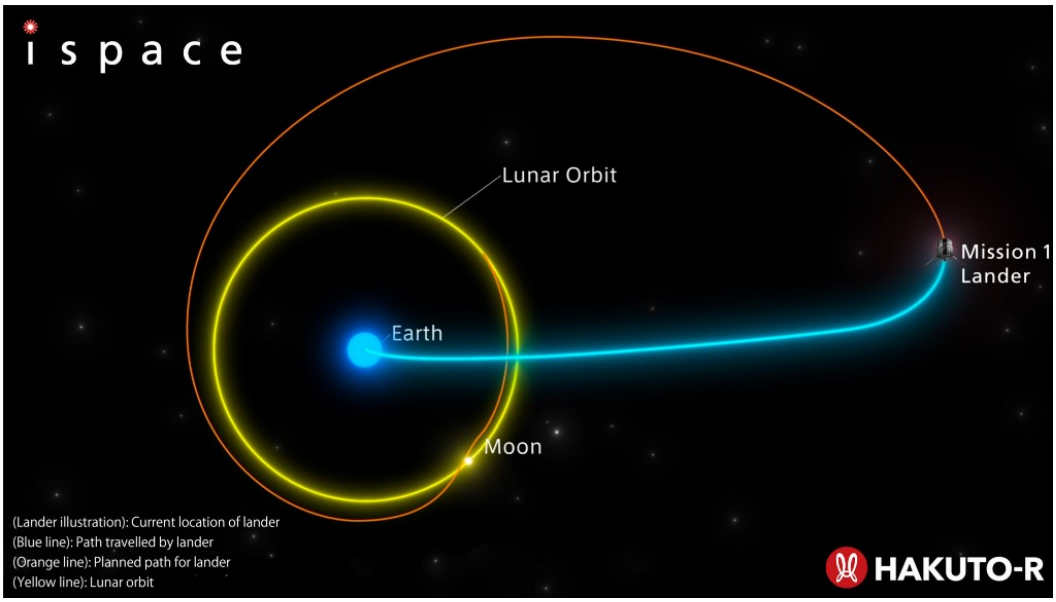
The first rocket launch from the UK took place earlier this month at Cornwall Airport Newquay. Spaceport Cornwall used an existing airport runway and a modified Virgin Orbit Boeing 747 to fly the rocket to altitude and deploy it mid-air. Thousands gathered to watch the launch. The 747 flight, rocket release and initial rocket flight went well, but, unfortunately, the second stage of the rocket failed to deliver the payload to the required orbit.

Back to top

On the Radar

Private Japanese Mission to Moon Launched

HAKUTO-R Mission 1 lunar lander has successfully accomplished Step 5 of its Mission 1 Milestones by completing a month-long stable navigation and nominal cruise in deep space. ispace, inc., a Japanese lunar exploration company, founded in 2010, launched the mission using a SpaceX Falcon 9 rocket from Cape Canaveral on 11 December 2022.



Back to top

Employment / Internship Opportunities

The International Space Science Institute (ISSI) in Bern and ISSI-Beijing have announced a joint Call for Proposals 2023 for International Teams in Space & Earth Sciences. Submission deadline: 16 March 2023.

The International Science Council is seeking a Science Director, for its Paris

headquarters. Details on the ISC website, deadline for applications: 31 March 2023.

See the Employment / Internship / Opportunities on the COSPAR website under the Latest News menu for details. Associates are kindly invited to forward similar announcements to cosparcom@cosparhq.cnes.fr

Back to top

Space Science Quote

"When we look out into space, we're looking back in time; the light from a galaxy a billion light-years away, for instance, will take a billion years to reach us. It's an amazing thing. The history is there for us to see. It's not mushed up like the geologic record of Earth. You can just see it exactly as it was."
Margaret Geller.

Back to top

Space Science Highlights from the Past

Launched in January 1978, the International Ultraviolet Explorer (IUE or Explorer 57) was the first space observatory primarily designed to take ultraviolet (UV) electromagnetic spectrum.

Back to top

Contribute to COSPAR News!

If you have an announcement or item of news for the COSPAR—and wider space—community, please send it to leigh.fergus@cosparhq.cnes.fr

Our mailing address is:
COSPAR, c/o CNES, 2 pl. Maurice Quentin
75039 Paris cedex 01, France