



COSPAR News

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Message from the Editors

As this year draws to an end, we're looking forward even more to the next COSPAR Scientific Assembly in the historic--and hot--capital city of Athens (and a few well-deserved days at the beach afterwards). As this issue of *COSPAR News* shows, COSPAR activity is intensifying and there will be new sessions at the Assembly to reflect this. A new Panel and Sub-group are up and running, and involvement with, and from, industry in the Committee on Industry Relations, is ongoing, resulting from the Strategic Action Plan set out in 2019.

We'd also like to introduce an old COSPAR friend and new occasional contributor: Facundo Albacete. He attended our very first [Capacity Building Workshop in 2001](#) as a PhD student and has been active in COSPAR ever since. In this issue he'll be sharing a few ideas for submitting an abstract to the 44th COSPAR Assembly which we hope you'll find helpful.

Don't forget: the deadline for abstract submission is 11 February 2022.

Meanwhile, all our warmest wishes for the end of year season. And please do continue taking all of the necessary measures to stay well.

Richard Harrison and Leigh Fergus

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Space Science Snapshot: Double Firsts

NASA's first planetary defence mission, *DART*, has been launched, carrying ASI's *Light Italian CubeSat for Imaging of Asteroids (LICIACube)*--the first Italian-built satellite to go into deep space. Read more about the DART mission in the [December issue of COSPAR's *Space Research Today*](#).



(Image credits: NASA/JPL-Caltech)



COSPAR Meetings

**44th COSPAR Scientific Assembly
Athens, Greece: 16-24 July 2022**

The deadline for abstract submissions for the 44th COSPAR Scientific Assembly is 11 February 2022. Please check the [COSPAR Assembly website](#) and www.cosparathens2022.org/ for details. The Assembly will be principally in-person, with virtual access for scientists unable to travel.

COSPAR Blog

Meet Our New Blogger

We introduce our new blogger, Juan Facundo Albacete Colombo, who has some handy hints to share on preparing your abstract for the COSPAR Assembly [here](#).



COSPAR Business



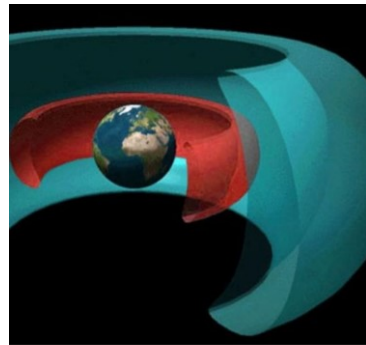
New Panel on Innovative Solutions (PoIS)

The Panel on Innovative Solutions (PoIS) was established in the fall of 2020. Its charter is ambitious and broad: to bring state-of-the-art (SOTA) technology to bear on the hardest problems facing COSPAR researchers. Find out more [here](#).

COSPAR Business

New Sub-group on Radiation Belts (SGRB)

A sub-group of TGCSS dealing with radiation belt measurements has just been set up. The Sub-Group on Radiation Belt (SGRB) is established and chaired by Ji Wu, member of TGCSS. Read more [here](#).



COSPAR Business

Task Group on Establishing an International Geospace Systems Program

The recently set up task group on establishing an International Geospace Systems Program (IGSP) has been meeting virtually bi-weekly. The group's objective is to produce a COSPAR Scientific Roadmap that argues for the need to study geospace as a "System of Systems". [Read more here](#).



COSPAR Business

COSPAR and Industry: a New Deal

Our Strategic Action Plan 2019-2023 calls for the COSPAR Associated Supporter Program to be reconstituted, and also stresses the opportunity to obtain meaningful support from those industries. These changes were incorporated into our bylaws last January. Moreover we have specifically chartered a Committee on Industry Relations (CIR).



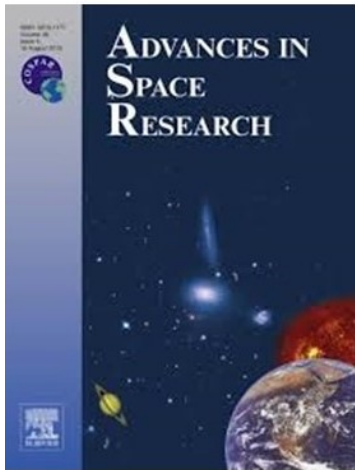
COSPAR Publications

ASR Special Issues

The following prefaces to recent Special Issues of *Advances in Space Research (ASR)* are now available free to read:

-International Reference Ionosphere - Progress and New Inputs, Edited by Dieter Bilitza and Bodo W. Reinisch, Volume 68, Issue 5, Pages 2057-2256 ,
1 September 2021

Details of other recent Special Issues.



COSPAR Publications

LSSR Free Access Articles

Courtesy of Elsevier, the following review article which appears in *LSSR*, Volume 31, is free to read until 1 November 2022:

Review of research into bioregenerative life support system(s) which can support humans living in space



Details of other articles available [here](#).

COSPAR Associated Supporter News: Airbus Selected for ESA's Ariel Mission

The European Space Agency (ESA) has signed a contract with Airbus to build the *Atmospheric Remote-sensing Infrared Exoplanet Large-survey (Ariel)* mission. *Ariel* is the fourth medium-class mission in ESA's Cosmic Vision programme.

The Airbus logo is displayed in a large, bold, blue sans-serif font. The letters are thick and closely spaced, set against a light blue rectangular background.

COSPAR Associated Supporter News: New Field of Research at ZARM

A new research group at ZARM, at the University of Bremen, "Photoelectrocatalysis for Terrestrial and Space Applications", is now led by Dr. Katharina Brinkert to investigate how oxygen and hydrogen can be produced in microgravity, as well as fuels and other chemicals. Dr. Brinkert is the 2020 recipient of the COSPAR/Russian Academy of Sciences Zeldovich Medal for Scientific Commission G.

CENTER OF
APPLIED SPACE TECHNOLOGY
AND MICROGRAVITY



News from Space Agencies NASA Selects New Mission to Study Storms

A new NASA Earth science mission to study the behaviour of tropical storms and thunder-storms and their impacts on weather and climate models is expected to launch in 2027. The collection of three



SmallSats is called Investigation of Convective Updrafts (INCUS).



News from Space Agencies

CNES Celebrates 60th Anniversary

The creation of the French space agency, CNES, was officially initiated 60 years ago this month. A commemorative stamp has been issued, showing French astronaut Thomas Pesquet in the foreground, and *Ariane 5* lifing off in the background.

On the Radar

Next Stop: Venus

The 2020s could be the Venus decade, with a growing number of missions to Earth's sister planet in preparation or proposed in the next ten years, including ISRO's Shukrayaan-1, ESA's EnVision, NASA's VERITAS and DAVINCI+, and Roscosmos' Venera-D missions (Image credit: NASA).



On the Radar

Ariane to Develop Re-Usable Launcher

ArianeGroup is to develop a re-usable mini-launcher, and is currently refurbishing the Diamant launch pad in Kourou, French Guiana, for Themis, the upper stage demonstrator of this project.

On the Radar

Solar Orbiter Makes Earth Flyby

Solar Orbiter has returned to Earth for a flyby before starting its main science mission to explore the Sun and its connection to space weather.



On the Radar

China Launches Satellite for UN SDGs

China has launched a scientific satellite, code-named "SDGSAT-1" to help nations meet the UN Sustainable Development Goals (SDGs).

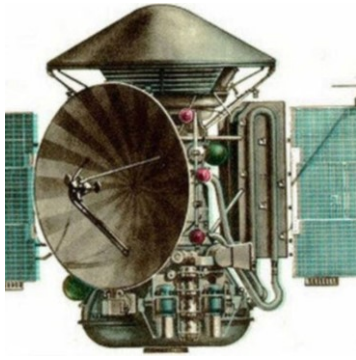
Employment / Internship Opportunities

The International Space Science Institute (ISSI) in Bern, Switzerland invites applications for the Johannes Geiss Fellowship (JGF). Deadline for applications: 31 January 2022.

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

Space Science Quote

"If you think this universe is bad, you should see some of the others." Philip K. Dick.



Space Science Highlights from the Past

50 years ago this month, the Soviet robotic space probe *Mars-3* made the first successful soft landing on Mars. Although it failed soon after, the orbiters *Mars-2* and *Mars-3* were able to send images for 8 months.

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

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