



2023 INTERNATIONAL SYMPOSIUM
ON THE PEACEFUL USE OF
SPACE TECHNOLOGY – HEALTH
November 18 - 20, 2023

Call for Papers

The IPSPACE Organizing Committee invites academicians to attend and speak at the IPSPACE 2023. Papers are solicited in the areas listed below for the 2023 International Symposium on the Peaceful Use of space technology - Health (IPSPACE 2023), co-hosted by the International Academy of Astronautics (IAA), the International Astronautical Federation (IAF), the Association of Space Explorers (ASE), Space Foundation, Rice University's Baker Institute's International Space Medicine Summit (RICE ISMS), the International Space University (ISU), the George H. W. Bush Foundation for U.S.-China Relations, hosted by the International Peace Alliance (Space) (IPA), the Chinese Society of Astronautics (CSA), China High-Tech Industrialization Association (CHIA), China Association for Remote Sensing Applications (CARSA), China Electronics Chamber of Commerce (CECC). IPSPACE is organized by the International Peace Alliance (Space) (IPA) and the State-Guest Entrepreneur Club (SGEC). Strategic partners are China Communications Industry Association, GNSS & LBS Association of China, and China Chamber of Commerce for Import and Export of Machinery and Electronic Products (CCCME).

Similarly, to what was done in the previous symposiums, the program will focus on global peace, collaboration, and innovation. IPSPACE will be an online and in-person hybrid event in multiple locations around the world with 1 plenary session and 10 breakout sessions.

A broad theme of IPSPACE 2023 is peaceful use of space technology on human health with the slogan "One Space, One Home" will gather scientists, entrepreneurs, educators, scholars, and professionals in health, spatial IT, education, finance, insurance, energy and more. On 18 November 2023 the opening Ceremony will be followed by a plenary session and 10 breakout sessions. On 18-20 November 2023 topic areas for papers include:

Plenary Session

The Plenary Session discusses peaceful applications and conversion of space technologies, innovation, talents, and other topics.

Session: Spatial IT and Applications

Mankind faces major challenges such as environmental degradation, climate change, food security and public security. This session is expected to enhance global communication and cooperation to promote and deepen the application of spatial IT in major fields like resource management, environmental monitoring, disaster prevention and mitigation, thus, to further promote the peaceful use of space science and technology and make benefits for the well-being of mankind.

Session: Space Technology and Human Health

This session will explore the intersection between space technology and human health. Topics of interest include space medicine, biotechnology, and bioengineering, as well as the use of space technology to monitor and improve human health on Earth.

Session: Space Power and Terrestrial Energy

It is crucial to identify research, develop and deploy affordable and sustainable new energy sources. This need is driven by a demand for energy to enable economic growth for a still-increasing global population. It is also driven by concerns regarding the long-term accumulation in Earth's atmosphere of fossil fuel-derived greenhouse gases, and the prospect that annual production of petroleum will begin to decline. The challenge to transition current terrestrial energy systems into more environmentally friendly, sustainable ones is engaged. The whole range of power generation, conversion and storage will be discussed as well as the prospects for using space-based power plants to provide energy remotely to the Earth.

Session: Spatial IT for a Shared Future

This session will explore the investment opportunities in the space industry and the potential for economic growth.

Session: Space Education, Skills, and Talents

This session will introduce programs and discuss space education from a K12 student's perspective. Experienced educators will share their insights on how to make space education attractive and inspirational.

Session: Green Space Propulsion

This Session will introduce distinctive environmental challenges for sub-orbital, Earth to orbit and in-space propulsion; Greener space propulsion in chemical and non-chemical rocket, liquid, solid and hybrid rocket systems; Promising green space propellants for various space missions; Advanced green propulsion systems for ramjet, scramjet, air-breathing, nuclear, electric, solar, and other advanced rocket systems.

Session: Moon Protection

The Moon Farside is the only place free from radio transmissions and noises produced by ground-based And Earth-orbiting instruments. The spherical body of the Moon blocks them, acting like a shield. Thus, The Legal Protection of the Moon Farside from all kinds of non-scientific future exploitations (real estate, Industry, and military) has long been a concern for many scientists. This session advocates the support To the Moon Farside Protection by all scientists working in four different areas of science: Cosmology, Astrobiology, SETI, and Planetary Defense.

Session: Space Law (planned to be held on Nov. 11)

This session will examine the legal, ethical, and policy implications of space activities. It will explore the governance frameworks for space activities, including international treaties, laws, and industry standards.

Session: Commercial Space Development

This session will focus on the latest developments in commercial spaceflight, space tourism, space mining, space manufacturing, and other commercial related topics.

ABSTRACT SUBMITTAL:

Technical paper abstracts (250 to 500 words in length) in the areas described above or related to planetary defense will be accepted electronically through the conference email conference@iaaemail.org beginning June 30, 2023. Please be sure to designate the topic area your paper addresses (see topics listed above). The deadline for receipt of abstracts is **October 31, 2023**.

PAPERS:

Full-length manuscripts or two-page extended abstracts are due by close of business on October 20, 2023. Revisions and corrections will be accepted within two weeks after the end of the conference. The format for papers is specified on the conference website. Accepted papers (including two-page extended abstracts and poster papers) will be published on the official conference proceedings. Full-length manuscripts may be considered for publication in a special edition of *Acta Astronautica*.

KEY DATES:

June 30, 2023:	Call for Papers
September 29, 2023:	Abstract submission deadline
October 31, 2023:	Final abstracts selected and invitations extended
November 5, 2023:	Preliminary program available
November 17, 2023:	Sign-in
November 18-20, 2023:	Symposium

ORGANIZATIONAL STRUCTURE**Hosts**

Chinese Society of Astronautics (CSA)
China Electronics Chamber of Commerce (CECC)
China High-Tech Industrialization Association (CHIA)
China Association of Remote Sensing Application (CARSA)
Aircraft Owners and Pilots Association (AOPA)
International Peace Alliance (Space) (IPA)

Co-hosts

International Academy of Astronautics (IAA)
International Astronautical Federation (IAF)
Space Foundation
Association of Space Explorers (ASE)
International Space University (ISU)
Rice University's Baker Institute's International Space Medicine Summit (ISMS)
George H.W. Bush Foundation for U.S.-China Relations (Bush China Foundation)

Organizer

International Peace Alliance (Space) (IPA)
State-Guest Entrepreneurs' Club (SGEC)

Strategic Partners

China Communications Industry Association (CCIA)
GNSS & LBS Association of China (GLAC)
China Chamber of Commerce for Import & Export of Machinery & Electronic Products (CCCME)

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For more detailed information, please visit the IAA official website at <https://iaaspace.org/ipospace>

**IPSPACE Secretariat
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