



CALL FOR ABSTRACTS AND PAPERS

Advanced Nuclear Technologies in Space (ANTS) 2026

23–24 November 2026, Prague, Czech Republic

ANTS 2026 will be the **first European conference dedicated to space nuclear technologies**, bringing together leading experts from across the global space and nuclear communities. The ANTS conference was established to provide a consistent platform linking Europe’s expanding nuclear and space sectors, as no regular forum currently exists to connect these two rapidly evolving communities.

The conference is organized by an **international Scientific Programme Committee composed of renowned experts from leading European research institutions, space agencies, industry leaders, and nuclear organizations**. Their collective expertise ensures **a high-quality technical programme** addressing the most important scientific, technological, and strategic developments in the field.

Held in **Prague, Czech Republic**, ANTS 2026 will take place as a **two-day conference complemented by optional technical tours**, providing participants with valuable opportunities for in-depth discussions, networking, and collaboration.

While ANTS aims to attract a **broad international audience**, it will also provide a **unique opportunity for the rapidly growing European community in space nuclear technologies** to meet, exchange ideas, and strengthen collaboration with partners from around the world.

CONFERENCE TOPICS

The Programme Committee invites both oral and poster contributions on, but not limited to, the following topics:

- **Technology Research and Development:** This track covers the research and development of space nuclear technologies, including:
 - Fission Power Systems
 - Nuclear Propulsion
 - Radioisotope Power Systems

It also encompasses fuels development, energy conversion, heat rejection, cryogenics, autonomy and control systems, as well as modelling and simulation.

- **Testing, evaluation, and production supply chain:** This track covers isotope production and processing, fuel testing, irradiation experiments, post-irradiation examination, component and system testing, high-temperature and specialty materials, advanced manufacturing, supply chain aspects, ground operations and integration, and test facilities.



- **Architectures, Missions, and Use Cases:** This track includes civil, commercial, and defence applications. It covers programmatic overviews and updates, lessons learned from past programmes, nuclear vs conventional trade studies, compatibility with space launch vehicles and complexes, space science and exploration, resource recovery and utilization, and payload concepts.
- **Policy, Regulations, Safety, and Security:** This track addresses challenges and gaps for commercial nuclear systems, including fission systems, as well as existing regulatory frameworks and approaches, safety approaches and best practices, consensus standards, export control, safeguards, non-proliferation, and international engagement

INSTRUCTIONS AND DEADLINES

Authors should submit their abstract through the ENS Abstract Submission System.

Deadline for abstract submission: 15.7. 2026

Notification of acceptance to authors: 11. 9. 2026

Deadline for submission of the extended abstract: 23.10. 2026

Deadline for submission of PowerPoint presentations: 13.11 2026

Conference dates: 23 - 24. 11. 2026

CONFERENCE SECRETARIAT:

Additional information, including registration details, accommodation options, and updates on technical tours, will be available on the conference website: [Visit ANTS 2026](#)

CONTACT

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