2nd IAEA International Conference on

22 – 26 June 2026

Vienna, Austria

ACCELERATORS

for Research and Innovation

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#ACCELERATORS2026

BACKGROUND

The International Atomic Energy Agency (IAEA) is organizing the Second International Conference on Accelerators for Research and Innovation. The first Conference in the series was conducted in 2022 and addressed many important needs in our high-tech oriented society, where particle accelerators have become indispensable. The second Conference aims to build on the success of the first one, striving to surpass it while reinforcing the series' significance in driving innovation, fostering collaboration, and advancing societal benefits through accelerator technologies and further alignment with major IAEA flagship initiatives.

Tens of thousands of particle accelerators operating worldwide today are dedicated machines used for commercial applications, either in the medical (radiotherapy treatments) or industrial sectors (materials modification); while a few hundred accelerators are used for scientific research. The knowledge and technological spin-offs gained from these research accelerators drive the development of commercial applications and supports the research and development needs of a diverse range of fields, including fundamental and applied science. The main demand from researchers is for high quality X-ray, neutron, and ion beams to engage in cutting-edge research in energy, food and agriculture, environment, biology, medicine, forensics, cultural heritage, materials science, and many other areas. Accelerators also play a key role in capacity building, provide education and training both in academia and industry, contributing to the solution of problems of modern society and to increased competitiveness of local economies. Numerous innovations and accomplishments in the field of accelerator-based development and applications have been already acknowledged, however it is now time to take a comprehensive look at their socioeconomic impact, assess their sustainability and ability to meet future challenges.

The IAEA has been implementing programmatic activities that provide interested Member States with platforms to collaborate in various research fields to create new knowledge and exchange information on new trends and applications in accelerator-based nuclear science and technology. The IAEA implements programmes with direct relevance to use of particle accelerators such as Nuclear Science, Radioisotope Production and Radiation Technology, Human Health and Environment. In addition, direct support and assistance to the Member States in accelerator-based research and applications is also provided through the IAEA Technical Cooperation Programme.

MAIN TOPICS TO BE COVERED

The IAEA welcomes contributions in all fields of accelerator technology, accelerator-based research and applications. The scope of the conference is meant to cover, but is not limited to, the following topical areas, under two main themes/tracks:

Accelerator technology innovation and best practices in sustainable facility management:

- Novel accelerator technologies (including compact accelerators)
- Facility infrastructure (including diagnostics and instrumentation, data acquisition systems, etc.)
- Establishment of new facilities, strategic planning and sustainable facility operation
- Sharing best practices on open science approaches and data management
- User programmes and regional/interregional networking
- Knowledge management and capacity building

Cutting-edge methods, scientific results, case studies and success stories demonstrating technical advancement and socioeconomic impact:

- Environmental applications
- Food safety, security and nutrition
- Medical applications
- Biology, radiobiology, biophysics
- Cultural and natural heritage
- Engineering and energy applications
- Space applications
- Materials research
- Forensics and security applications
- Nuclear data and modelling
- AI, machine learning and software development
- Radioactive ion beams
- Nuclear astrophysics
- Particle physics

REGISTRATION

No registration fee is charged. The IAEA is generally not in a position to bear the travel and other costs of participants in the event. The IAEA has, however, limited funds at its disposal to help meet the cost of attendance of certain participants.

AUDIENCE

This conference will focus on applications of accelerator science and technology, which is a multidisciplinary area covering many branches including accelerator and nuclear physics, materials science, biology, engineering and industrial applications. Accordingly, the target audience for this conference comprises, but is not limited to: research scientists and end-users engaged in accelerator-based research and applications; accelerator facility managers, operators and users; industry and other stakeholders involved in development of accelerator technologies and associated instrumentation; policy makers, regulators, and members of relevant intergovernmental and non-governmental organisations (IGOs and NGOs).

KEY DEADLINES

10 November 2025	Submission of Synopses through IAEA-INDICO Submission of Form B (together with Form A) through the InTouch+ platform
10 November 2025	Submission of Form C (together with Form A) through the InTouch+ platform
31 January 2026	Notification of acceptance of synopses
14 June 2026	Submission of Form A only (no paper submission, no grant request) through the InTouch+ platform
22 June 2026	Submission of full paper

LANGUAGE

The conference will be held in English.

EXHIBITION

A limited amount of space will be available for commercial vendors' displays/exhibits during the conference. Interested parties should contact the Scientific Secretariat by email **AccConf2026@iaea.org** by 10 November 2025.

IAEA CONTACTS

Scientific matters:

Ms Aliz Simon
Division of Chemical and Physical Sciences
Department of Nuclear Science and Applications
Tel.: +43 1 2600 21706

Ms Azillah Binti Othman
Division of Chemical and Physical Sciences
Department of Nuclear Science and Applications
Tel.: +43 1 2600 24577

Mr Danas Ridikas
Division of Chemical and Physical Sciences
Department of Nuclear Science and Applications
Tel.: +43 1 2600 21751

Ms Celina Horak
Division of Chemical and Physical Sciences
Department of Nuclear Science and Applications
Tel.: +43 1 2600 21744

Scientific Secretariat email address:
AccConf2026@iaea.org

Participation, grant application and administrative matters:

Ms Julie Zellinger
Division of Conference and Document Services
Tel.: +43 1 2600 21321
Email: **Conference.Contact-Point@iaea.org**

Please include reference number **IAEA-CN-344** in all communications

CONFERENCE WEB PAGE

Please visit the IAEA conference web page regularly for new information regarding this conference:
https://www.iaea.org/events/accconf2026

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