

KEY DEADLINES

- 1 November 2021** Submission of abstracts (including Forms A and B) through the InTouch+ platform
- 1 November 2021** Submission of grant applications (Form C) through the InTouch+ platform
- 14 January 2022** Notification of acceptance of abstracts
- 1 June 2022** Submission of full papers
- No deadline** Registration only (submission of Form A) through the InTouch+ platform

CONFERENCE WEB PAGE

Detailed information on administrative matters including registration, paper submission and grants is provided on the conference web site: <https://www.iaea.org/events/AccConf22>

EXHIBITION

Space will be available for commercial vendors' displays and exhibits during the conference. Interested parties should contact the Scientific Secretariat by 1 December 2021.

REGISTRATION

No registration fee is charged. Limited funds are available to assist certain participants usually covering only part of the cost of attendance.

LANGUAGE

The conference will be held in English.

Please include reference numbers IAEA-CN-301 and EVT2005408 in all communications.

IAEA CONTACTS

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#Accelerators2022

CN-301

International Conference on Accelerators for Research and Sustainable Development: From Good Practices Towards Socioeconomic Impact



23–27 May 2022

IAEA Headquarters, Vienna, Austria



IAEA

International Atomic Energy Agency
Atoms for Peace and Development

BACKGROUND

The International Atomic Energy Agency (IAEA) is organizing the first International Conference on Accelerators for Research and Development: From Good Practices Towards Socioeconomic Impact. Such a conference was long awaited by the Member States to address important needs in our high-tech oriented society, where particle accelerators have become indispensable.

Nowadays, more than 20,000 particle accelerators operating world-wide are used for commercial applications in both the medical and the industrial sectors. Although only a few hundred accelerators are used for scientific research, the knowledge and technological spin-offs gained from these facilities drive the development of commercial applications and support the research and development needs of a diverse range of fields. The main demand currently exists 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, contributing to the solution of problems of modern society and to increased competitiveness of national economies.

The IAEA has been implementing programmatic activities that provide interested Member States with platforms to exchange information on new trends and applications in accelerator-based nuclear science and technology. The IAEA successfully implements a few programmes with high relevance to the use of particle accelerators. In addition, direct support and assistance to the Member States in the area of accelerator-based research and applications is also provided through the IAEA Technical Cooperation Programme.

AUDIENCE

The target audience for this conference comprises but is not limited to: research scientists engaged in accelerator-based research and applications; accelerator operators and users; entrepreneurs or stakeholders involved in applications of accelerator technologies; policy makers and regulators. The IAEA welcomes and encourages the participation of individuals from developing countries, women, and early career professionals, including students.

MAIN TOPICS TO BE COVERED

The IAEA welcomes high-quality, well-structured abstracts and papers in all fields of accelerator-based research and applications which will be grouped under three main themes/tracks:

- A. Cutting-edge scientific results and innovation in applications
- B. Success stories and case studies demonstrating socioeconomic impact
- C. Best practices in effective management, safe operation, and sustainability of accelerator facilities, including establishment of new facilities

The scope of the conference is meant to cover, but is not limited to, the following topical areas:

- Biology and biophysics
- Cultural heritage
- Engineering applications (including energy sector)
- Environmental applications (including geosciences and climate change)
- Food and agriculture
- Forensics and security applications
- Information and quantum technologies
- Materials research (including materials damage studies)
- Medical applications (including radioisotope production and Boron Neutron Capture Therapy)
- Nuclear data and modelling benchmarks
- Radioactive beam applications
- R&D on new accelerator and alternative technologies (including Compact Accelerator based Neutron Sources)
- Best practices in and lessons learned from:
 - Education and training with accelerators
 - Establishment of new facilities
 - Facility management and user programmes
 - Facility operations and maintenance
 - Outreach, knowledge preservation and management
 - User access programmes and regional/interregional networking
 - Strategic considerations for sustainability and self-reliance

