3rd International Conference on

Applications of Radiation Science and Technology

BACKGROUND
The International Atomic Energy Agency (IAEA) is organizing the Third International Conference on Applications of Radiation Science and Technology (ICARST-2025), following the success of the first ICARST in 2017 and second ICARST in 2022.

Innovations in the field of radiation sciences have contributed significantly to industrial growth and economic development by providing versatile tools and processes to produce high quality products in a clean and efficient manner. These advances have resulted in economic growth and have significantly improved the quality of life in many Member States. With the focus now shifting to the development of sustainable technologies to help achieve the United Nations Sustainable Development Goals (UN SDGs), it is now time to revisit the current status of radiation technology programmes in academia and industry to prepare for meeting future challenges.

PURPOSE AND OBJECTIVES
The purpose of ICARST-2025 is to provide a comprehensive review of significant developments in applications of radiation science and technology, as well as the state of the art in the field; assess national, regional, and global initiatives for implementing proven industrial applications of radiation science and technology; provide a composite platform where representatives from industry and academia can develop new initiatives; and chart a clear-cut pathway for the adoption of radiation technologies to achieve specific SDGs.

It will aim to provide a unique opportunity to achieve the following objectives:

- Review key developments;
- Assessing Initiatives;
- Fostering New Initiatives;
- Identifying implementation strategies;

AUDIENCE
This conference will focus on the applications of radiation science and technology, which is a multidisciplinary area covering many branches including radiation-related physics, chemistry, materials science, biology, engineering, and industrial applications. The target audience for this conference comprises, but is not limited to:

- Radiation technologists in areas of chemistry, physics, microbiology, material science;
- Food technologists;
- Cultural heritage conservators and preservators;
- High dose radiation dosimetry experts;
- Environment engineers and scientists;
- Radiation facility operators;
- Quality assurance specialists for radiation facilities;
- Radiation safety experts;
- Process engineers;
- Entrepreneurs involved in applications of radiation technologies;
- Manufacturers of radiation sources and equipment suppliers;
- Research scientists and students engaged in radiation technologies;
- Policy makers and regulators; and
- Other stakeholders.
MAIN TOPICS
The scope of the conference will cover, but is not limited to, the following topical areas:

• Advances in radiation chemistry, radiation science and technology;
• Radiation modified advanced materials: from fundamentals to applications;
• Radiation and nuclear technology for imaging and preservation of cultural heritage;
• Radiation processing applications in medical sterilization, tissue banking, food and agriculture;
• Dosimetry, standards and quality management of irradiation facilities;
• New generation of radiation sources: gamma rays, electron beam and X-ray;
• Production and application of radionuclides and tracers for studying industrial and environmental processes and flow visualisation;
• Nucleonic control and measurement systems and imaging technologies;
• Non-destructive Testing (NDT) applications for civil engineering, including artificial intelligence, neutron and muon radiography;
• Computational fluid dynamic (CFD) and numerical Residence Time Distribution (RTD) modelling;
• Radiation sciences and technology in environmental monitoring, protection, remediation and post natural disaster management;
• Education, training and certification in radiation science and technology; and
• Radiation sciences & technology success stories in line with the UN SDGs (https://www.undp.org/content/undp/en/home/sustainable-development-goals.html).

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.

LANGUAGE
The working language of the conference will be English.

IAEA CONTACTS:
Scientific Secretaries of the Conference
Ms Celina Horak
Division of Physical and Chemical Sciences
Department of Nuclear Sciences and Applications
Tel.: +43 1 2600 21744

Ms Hannh Affum
Division of Physical and Chemical Sciences
Department of Nuclear Sciences and Applications
Tel.: +43 1 2600 21745

Scientific Secretariat email address: ICARST-2025@iaea.org

Administration and Organization
Ms Julie Zellinger
Division of Conference and Document Services
Department of Management
IAEA-CN-332, EVT2306594
Tel.: +43 1 2600 21314 Fax: +43 1 2600
Email: Conference.Contact-Point@iaea.org

CONFERENCE WEB PAGE
Detailed information on administrative matters including registration, paper submission and grants is provided on:
https://www.iaea.org/events/icarst-2025

Please include reference number IAEA-CN-332 in all communications.

KEY DEADLINES

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