

Second International Conference on Applications of Radiation Science and Technology (ICARST-2022)

Monday, August 22, 2022 - Friday, August 26, 2022

IAEA Headquarters

Scientific Program

SCOPE AND TOPICS

A series of plenary sessions will address the topics listed below in the tracks, and the conference programme will include invited keynote speakers from academia and industry, giving oral presentations and participating in panel discussions. In addition, poster sessions will be organized to allow ample time for discussion and interaction among participants. Finally, a closing round table session will review the main conclusions drawn in the plenary sessions and will summarize recommendations for the future development of radiation sciences and technologies.

TARGET AUDIENCE

This conference will focus on 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. Accordingly, the target audience for this conference comprises, but is not limited to:

- Radiation technologists;
- Entrepreneurs or stakeholders involved in applications of radiation technologies;
- Research scientists engaged in nuclear and radiation research;
- Policy makers and regulators.

Track 1: Advanced radiation chemistry and trends in radiation science and technology

Track 2: Emerging roles of radiation sciences and technology in environmental monitoring and protection

Track 3: Dosimetry, standards and quality management of irradiation facilities

Track 4: Advanced materials: from fundamentals to applications

**Track 5: New generation of radiation sources:
gamma ray, electron beam, and X-ray**

**Track 6: Alternative radiation sources based on
accelerator technologies**

**Track 7: Radiation sterilization and microbiological
qualification**

**Track 8: Radiation & nuclear technologies for
characterization, imaging, and preservation of
cultural heritage**

**Track 9: Tracers and radiotracers applications for
studying industrial and environmental processes
and flow visualisation**

**Track 10: Sealed sources nucleonic control and
measurement systems and imaging technologies**

**Track 11: Computational fluid dynamic (CFD) and
numerical Residence Time Distribution (RTD)
modelling**

**Track 12: Recent radiation processing applications
in food and agriculture**

Track 13: Radiation technologies in tissue banking and tissue engineering

Track 14: Education and training in radiation science and technology

Track 15: Radiation sciences & technology success stories in support of attaining UN-SDGs