



The Abdus Salam
International Centre
for Theoretical Physics



4th Joint ICTP-IAEA Workshop on Physics and Technology of Innovative Nuclear Energy Systems

Description:

Since 2016, this workshop marks the fourth joint ICTP-IAEA event on innovative nuclear energy systems. We will review the latest advancements in nuclear reactor design and fuel cycle options, with a particular emphasis on the design and technological features of next generation reactors.

MORE DETAILS:

The program is designed to provide a foundational understanding of various nuclear reactor technologies and related fuel cycles. Through the program, participants will gain global scenarios for nuclear energy, including INPRO project studies, and a theoretical foundation in the most important research and development areas of innovative nuclear energy systems. This includes exposure to modern physical models and numerical simulation codes used for designing and analysing the safety of advanced nuclear reactors. The workshop targets young scientists, researchers, and engineers currently involved in nuclear reactor research, as well as students interested in the field. By using active discussions, group activities, poster sessions, and blended learning approaches, the program fosters the sharing of new ideas and emphasizes the need for continued R&D and innovation in all areas of nuclear reactor and fuel cycle science and technology.

TOPICS:

- Global scenarios for nuclear energy,
- Innovative reactor concepts and fuel cycle options,
- Status of research and technology development for innovative nuclear reactor and fuel cycle technologies,
- Reactor physics of innovative nuclear energy systems,
- Safety approaches, including passive safety systems and safety analysis, including severe accident scenarios, and
- Advanced modelling and simulation of nuclear reactors

CALL FOR CONTRIBUTED ABSTRACTS:

In the application form, all applicants are requested to submit a brief abstract for a poster presentation. A limited number of contributed abstracts will be selected for the poster session. The best poster will be awarded a certificate of appreciation.

SPEAKERS:

Vladimir KRIVENTSEV
IAEA, Austria
Chirayu BATRA
92 ventures, Denmark
Alexander BYCHKOV
Nuclear Expert, Austria
Rami EL-EMAM
Ontario Tech University, Canada

Amparo GONZALEZ
IAEA, Austria
Christian LATGE
CEA, France
Tanju SOFU
ANL, USA
Mariano TARANTINO
ENEA, Italy



11 - 15 November 2024



Trieste, Italy



Deadlines:

Requesting financial and/or visa support:

25 August 2024

For remote participation:

25 October 2024

DIRECTOR:

Vladimir KRIVENTSEV, IAEA, Austria

ICTP LOCAL ORGANISER:

Nicola SERIANI, ICTP, Italy

FURTHER INFORMATION:

E-mail: smr3985@ictp.it

Web: <http://indico.ictp.it/event/10524/>

Female scientists are encouraged to apply.



REGISTRATION:

A limited number of grants are available to support the attendance of selected participants, with priority given to participants from developing countries. There is no registration fee.

