

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



20 - 24 August 2018
Trieste, Italy

Further information:
<http://indico.ictp.it/event/8324/>
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This is a comprehensive workshop reviewing state-of-the-art reactor design concepts, nuclear fuel cycle options including design and technological features of various innovative reactors. The unique course provides basic understanding of different innovative nuclear energy systems.

Directors:

Vladimir KRIVENTSEV (IAEA, Vienna, Austria)
Chirayu BATRA (IAEA, Vienna, Austria)

Description:

The participants will receive a theoretical foundation on the most important research and technology development areas of innovative nuclear energy systems and will become familiar with the modern physical models and simulation codes for the design and safety analysis of these systems. The workshop aims to engage and stimulate young scientists, researchers, and engineers currently involved in nuclear reactors research, as well as students interested in the field.

Active discussion, group activities, a poster session and various blended learning approaches will be used to enhance sharing of new ideas and emphasize the need of continued R&D and innovation in all areas of nuclear reactor and fuel cycle science and technology development.

Topics:

- Global scenario for nuclear energy;
- Innovative reactor concepts and fuel cycle options;
- Reactor physics of innovative nuclear energy systems;
- Thermal hydraulics of innovative nuclear energy systems;
- Status of advanced primary components and development and qualification of structural materials, coolants, and fuels;
- Passive safety systems and other safety technologies;
- Safety analysis including severe accident scenarios;
- Advanced reactor modelling and simulation; and
- Status of research and technology development in support of innovative reactor and fuel cycle technologies.

Local Organizer:

Sandro SCANDOLO (ICTP, Trieste, Italy)

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.

How to apply:

Online application:
<http://indico.ictp.it/event/8324/>

Female students and scientists are encouraged to apply.

Grants:

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.

Deadline:

20 May 2018

