IAEA
International Atomic Energy Agency
Atoms for Peace and Development

Technical Meeting on Computer Based Simulators for Capacity Building in Nuclear Power Programmes

IAEA Headquarters, Vienna, Austria

Room MOE75 & virtual participation via Microsoft Teams

24-27 November 2026
Ref. No.: EVT2503642

Information Sheet

Introduction

The International Atomic Energy Agency (IAEA) statutory functions include "*to encourage the exchange and training of scientists and experts in the field of peaceful uses of atomic energy*".

The IAEA 69th General Conference, resolution GC(69)/RES/9 "*encourages the Secretariat to strengthen its efforts on distance training on development and evaluation of innovative nuclear technology for qualified professionals and students, and to further develop tools that support effective and efficient delivery of services to Member States and welcomes the Agency's e-learning modules on advanced reactor concepts and part-tasks simulators on nuclear renewable energy systems*". Through this resolution the Member States (MS) requested IAEA support in training and development of qualified professionals and students in nuclear technology.

Since 1997, the IAEA Nuclear Power Technology Development Section develops and maintains extensive training programmes based on its library of personal computer (PC) based basic principle simulators in support of human capacity building in MSs.

The IAEA Nuclear Knowledge Management Section provides support to MSs on Nuclear Education, Training and Qualification methodologies in capacity building for nuclear power programmes.

The use of the IAEA PC based basic principle simulators in education and training aims at enhancing understanding of nuclear technologies through 'learning-by-doing'. The simulators for education and training classification, selection, and use are important step prior being introduced to national nuclear power programmes (outlined in IAEA-TECDOC-1887).

On the other hand, high-fidelity full scope simulators available at nuclear power plants (NPP) provide the training environment for initial and continuous training and qualification of operators to develop and reinforce knowledge of plant systems and their relationships; to increase the ability to apply plant procedures; to advance practical skills in operating the plant in normal, abnormal and emergency conditions; and to build supervisory skills and teamwork (IAEA-TECDOC-1963).

To enhance the IAEA significant experience in organizing and delivering training courses worldwide using PC based basic principle simulators this meeting will focus on information exchange regarding the use of simulators for development of nuclear workforce.

Objectives

The purpose of this meeting is to exchange information and lessons learned on the use of PC based basic principle simulators in education and training as well as innovations in the NPP training.

The specific objectives of the meeting are to:

- Promote the exchange of information relevant to the use of PC based basic principle simulators in education and training in different organizations (universities, institutes, government organizations),
- Contribute to the upgrading of the IAEA library of PC based basic principle simulators with new simulators,
- Highlight computer-based innovations to support NPP training,
- Provide recommendations to the IAEA for future activities on PC based basic principle simulators,
- Prepare an IAEA publication summarizing the works presented by participants and
- Offer technology and simulators' developers a place for presenting and discussing their innovations.

The meeting programme will include discussion and writing sessions to enable participants to contribute to the summary and highlights of the meeting, and to make recommendations to the IAEA on future activities in this area.

Target Audience

The meeting is open to all Member States involved or interested in the development and use of IAEA PC based basic principle simulators for education and training as well as innovations in the field of NPP training, including government organizations (regulators and R&D agencies) and industry stakeholders (universities, vendors, engineering companies, plant operators and technology developers).

Working Language(s)

The working language of this meeting will be English with no interpretation provided. All communications, abstracts and papers must be submitted in that language.

Expected Outputs

The expected output of this meeting will contribute to the enhancement of the IAEA library of PC based basic principle simulators. Contributions, presentations and discussions, examples of innovations in the NPP training and recommendations on future activities in the field will be considered for update of the IAEA publications IAEA-TECDOC-1887 and IAEA-TECDOC-1963.

Topics

The event will consist of keynote speeches, general sessions and technical sessions. All contributions, presentations and discussions will be categorized based on the following topics:

- **Topic 1:** PC based basic principle simulators integration in teaching and training on various reactor technologies.
- **Topic 2:** Part task simulators, concept simulators, and special purpose simulators and their place in education and training programme.
- **Topic 3:** PC based basic principle simulators in support to conventional and near-term deployable advanced reactor technologies.
- **Topic 4:** Benchmark examples and validation of the PC based basic principle simulators on the basis of real-life plant data of interest to education and training.
- **Topic 5:** Computer-based innovations to support NPP training.

Participation and Registration

All persons wishing to participate in the event have to be designated by an IAEA Member State or should be members of organizations that have been invited to attend.

In order to be designated by an IAEA Member State or invited organization, participants are requested to submit their application via the InTouch+ platform (https://intouchplus.iaea.org) to the competent national authority (Ministry of Foreign Affairs, Permanent Mission to the IAEA or National Atomic Energy Authority) or organization for onward transmission to the IAEA by **07 September 2026**, following the registration procedure in InTouch+:

1. Access the InTouch+ platform (https://intouchplus.iaea.org):
    - Persons with an existing NUCLEUS account can sign in to the platform with their username and password;
    - Persons without an existing NUCLEUS account can register here.
2. Once signed in, prospective participants can use the InTouch+ platform to:
    - Complete or update their personal details under 'Complete Profile' and upload the relevant supporting documents;
    - Search for the relevant event under the 'My Eligible Events' tab;
    - Select the Member State or invited organization they want to represent from the drop-down menu entitled 'Designating Authority' (if an invited organization is not listed, please contact InTouchPlus.Contact-Point@iaea.org);
    - If applicable, indicate whether a paper is being submitted and complete the relevant information;
    - If applicable, indicate whether financial support is requested and complete the relevant information (this is not applicable to participants from invited organizations);
    - Based on the data input, the InTouch+ platform will automatically generate the Participation Form (Form A) and/or the Grant Application Form (Form C);
    - Submit their application.

Once submitted through the InTouch+ platform, the application, together with the auto-generated form(s), will be transmitted automatically to the required authority for approval. If approved, the application, together with the applicable form(s), will automatically be sent to the IAEA through the online platform.

NOTE: The application for financial support should be made, together with the submission of the application, by **07 September 2026**.

For additional information on how to apply for an event, please refer to the InTouch+ Help page. Any other issues or queries related to InTouch+ can be sent to InTouchPlus.Contact-Point@iaea.org.

Selected participants will be informed in due course on the procedures to be followed with regard to administrative and financial matters.

Participants are hereby informed that the personal data they submit will be processed in line with the Agency's Personal Data and Privacy Policy and is collected solely for the purpose(s) of reviewing and assessing the application and to complete logistical arrangements where required. The IAEA may also use the contact details of Applicants to inform them of the IAEA's scientific and technical publications, or the latest employment opportunities and current open vacancies at the IAEA. These secondary purposes are consistent with the IAEA's mandate. Further information can be found in the Data Processing Notice concerning IAEA InTouch+ platform.

Papers and Presentations

The IAEA encourages participants to give presentations on the work of their respective institutions that falls under the topics listed above.

Participants who wish to give presentations are requested to submit an abstract of their work. The abstract will be reviewed as part of the selection process for presentations. The abstract should be in A4 page format (2 pages) and should extend to no more than four pages (including figures and tables). It should contain title, contributing author(s) names and affiliation, must be written in English, and provide sufficient

information on the contents of the proposed paper for evaluation. The MS Word template is available at (https://conferences.iaea.org/event/493). The abstract will be reviewed as part of the selection process for presentations. The abstract should be in Microsoft Word format and should not exceed four pages. It should be uploaded to INDICO website (https://conferences.iaea.org/event/493), not later than **07 September 2026**. Authors will be notified of the acceptance of their proposed presentations by **09 October 2026** and provided with peer-review feedback. The authors will then be requested to submit a revised extended abstract by **23 October 2026**.

Expenditures and Grants

No registration fee is charged to participants.

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. Upon specific request, such assistance may be offered to normally one participant per country, provided that, in the IAEA's view, the participant will make an important contribution to the event.

The application for financial support should be made, together with the submission of the application, by **07 September 2026**.

Venue

The event will be held at the Vienna International Centre (VIC), where the IAEA's Headquarters are located. Participants must make their own travel and accommodation arrangements.

General information on the VIC and other practical details, such as a list of hotels offering a reduced rate for IAEA participants, are listed on the following IAEA web page:

www.iaea.org/events.

Participants are advised to arrive at Checkpoint 1/Gate 1 of the VIC one hour before the start of the event on the first day in order to allow for timely registration. Participants will need to present an official photo identification document in order to be admitted to the VIC premises.

Visas

Participants who require a visa to enter Austria should submit the necessary application to the nearest diplomatic or consular representative of Austria at least four weeks before they travel to Austria. Since Austria is a Schengen State, persons requiring a visa will have to apply for a Schengen visa. In States where Austria has no diplomatic mission, visas can be obtained from the consular authority of a Schengen Partner State representing Austria in the country in question.

Key Deadlines and Dates

Action	Date
Submission of application via the InTouch+ platform (https://intouchplus.iaea.org, search event number EVT2503642)	07 September 2026
Abstract submission deadline to INDICO website (https://conferences.iaea.org/event/493)	07 September 2026
Notification of acceptance of abstract by the IAEA	09 October 2026
Review comments submitted to authors	09 October 2026
Revised abstract submission deadline	23 October 2026
Technical Meeting in Vienna	24-27 November 2026

Event Web Page

Please visit the following IAEA web page regularly for new information regarding this event: https://conferences.iaea.org/event/493

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Subsequent correspondence on scientific matters should be sent to the Scientific Secretary/Secretaries and correspondence on other matters related to the event to the Administrative Secretary.