



Atoms for Peace and Development

الوكالة الدولية للطاقة الذرية

国际原子能机构

International Atomic Energy Agency

Agence internationale de l'énergie atomique

Международное агентство по атомной энергии

Organismo Internacional de Energía Atómica

Vienna International Centre, PO Box 100, 1400 Vienna, Austria

Phone: (+43 1) 2600 • Fax: (+43 1) 26007

Email: Official.Mail@iaea.org • Internet: <https://www.iaea.org>

In reply please refer to: EVT2103278

Dial directly to extension: (+43 1) 2600-22818

The Secretariat of the International Atomic Energy Agency (IAEA) presents its compliments to the IAEA's Member States and has the honour to draw their attention to the **20th INPRO Dialogue Forum on Challenges and Issues in Capacity Building for Ensuring Nuclear Energy Sustainable Development** (hereinafter referred to as "event") to be held at **Oak Ridge National Laboratory Oak Ridge, Tennessee, USA from 27 - 31 March 2023**.

The purpose of the event is to create an opportunity for Member States to exchange information on topics for immediate interest related to sustainable development of nuclear systems, including related cooperation between countries and their technology developers, suppliers and customers.

The attached Information Sheet provides further details of the event.

The event will be held in English.

Member States are invited to designate one participant or one or more participants to represent the Government at this event. Member States are strongly encouraged to identify suitable women 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 at the time of designating the participant or participant(s) using the attached Grant Application Form (Form C).

It should be noted that compensation is not payable by the IAEA for any damage to or loss of personal property. The IAEA also does not provide health insurance coverage for participants in IAEA events. Arrangements for private insurance coverage on an individual basis should therefore be made. The IAEA will, however, provide insurance coverage for accidents and illnesses that clearly result from any work performed for the IAEA.

Designations should be submitted to the IAEA through the competent national authority (Ministry of Foreign Affairs, Permanent Mission to the IAEA or National Atomic Energy Authority) not later than **6 January 2023** using the attached Participation Form (Form A). Completed and authorized Participation Forms should be sent either by email to: Official.Mail@iaea.org or by fax to: +43 1 26007 (no hard copies needed). Copies should be sent by email to the Scientific Secretaries of the event, Mr Wonho Choi, Mr Maxim Gladyshev, Division of Nuclear Power, Mr John Roberts; Division of Planning, Information and Knowledge Management, Department of Nuclear Energy (Email: W.Choi@iaea.org; M.Gladyshev@iaea.org; J.W.Roberts@iaea.org) and to the Administrative Secretary, Ms Lorena Tagani (Email: L.Tagani@iaea.org). The Scientific Secretaries of the event will liaise with the participants directly concerning further arrangements, including travel details, as appropriate, once the official designations have been received.

Should Governments wish, in addition, to appoint one or more observers to assist and advise the designated participants, they are kindly requested to inform the IAEA of the names and contact details of any such observers by the above date. In accordance with the established rules, Governments are expected to bear the cost of attendance of any observers they may send to IAEA events. Compensation is not payable by the IAEA for any damage to or loss of observers' personal property or for illness, injury or death occurring while travelling to or in connection with their attendance at IAEA events.

The Secretariat of the International Atomic Energy Agency avails itself of this opportunity to renew to the IAEA's Member States the assurances of its highest consideration.



2022-11-11

Enclosures: Information Sheet

Participation Form (Form A)

Form for Submission of a Paper (Form B)

Grant Application Form (Form C)



IAEA

International Atomic Energy Agency

Atoms for Peace and Development

20th INPRO Dialogue Forum on Challenges and Issues in Capacity Building for Ensuring Nuclear Energy Sustainable Development

**Hosted by the
Government of the USA**

**through the
Oak Ridge National Laboratory**

Oak Ridge, Tennessee, USA

27 - 31 March 2023

Ref. No.: EVT2103278

Information Sheet

Introduction

The International Project on Innovative Nuclear Reactors and Fuel Cycles (INPRO) was launched in 2000, in accordance with resolution GC(44)/RES/21, adopted in that year by the General Conference of the International Atomic Energy Agency (IAEA). The project's objectives are to help ensure that nuclear energy remains available in the 21st century and is developed in a sustainable manner. Moreover, INPRO seeks to bring together all interested Member States, including technology holders and users, so that they can jointly consider the actions necessary to achieve desired innovations in nuclear energy. The current membership of INPRO comprises 43 IAEA Member States and the European Commission.

The INPRO Dialogue Forums offer a platform for technology holders, technology users and other stakeholders to share information, perspectives and knowledge on issues related to sustainable nuclear energy development. The Dialogue Forums focus not only on technology, but also institutional aspects, such as market resources, effects of regulation, public acceptance and contribution to sustainable development.

Nuclear power plants have been one of the major sources of electricity and have made certain contributions to sustainable development by improving energy security and mitigating climate change. Currently, 32 member states are already operating 441 nuclear reactors with a net electrical capacity of 393,853 MW, and 17 member states are actively engaged in the active construction of 53 reactors with a net electrical capacity of 54,517 MW. In addition, 48 member states are considering, planning or actively working to include nuclear in their energy mix. Whether in the decision making, planning, purchasing, designing or operating phase of a nuclear program, a highly trained and specialized workforce to support these phases is a key element to a successful and sustainable nuclear energy programme.

Following a period of flat growth, the nuclear energy sector is again expanding, leading to an increasing demand placed on the pool of highly trained technical professionals world-wide. The previous period of flat growth has precipitated fewer graduates entering nuclear education programmes, as well as fewer experienced staff available to share their experience and knowledge as part of an on-going skills training pipeline. This has resulted in the need for greater capacity building in the nuclear sector, be that the establishment of new nuclear engineering programmes, development of a regulatory body, development of research expertise or experienced operators and maintenance expertise.

It is worth noting that in the IAEA definition (Building Capacity for Nuclear Security, 2018), capacity building includes several key elements such as education, training, exercises, awareness raising, workforce management, knowledge management and knowledge networks. Capacity building programmes require the active involvement of government, regulatory bodies, industry, academia, research and development organizations and technical and scientific support organizations. The specific competency needs of Member States will vary depending on the phase of their nuclear programme. Therefore, it is essential to disseminate good practices and lessons learned with respect to capacity building among academia, policy makers, owner/operators, industry, regulatory bodies, etc from Member States in their diverse phases.

The INPRO Steering Committee Meeting (SC) noted the importance of capacity building for the sustainable development of nuclear energy and, at its 30th meeting, endorsed the organization of the 20th INPRO Dialogue Forum in the USA with the focus on discussion of the “Challenges and Issues in Capacity Building for Ensuring Nuclear Energy Sustainable Development”.

The event will mainly consist of two parts: (i) the Dialogue Forum itself and (ii) technical tours to local nuclear industries and nuclear power plants. The Dialogue Forum includes keynote speeches by invited speakers, presentations by participants from Member States, and discussions among participants representing interested Member States and international organizations.

Objectives

The objectives of the 20th INPRO Dialogue Forum are to:

- Discuss each of the major elements of capacity building necessary for a safe, secure, reliable and sustainable nuclear energy programme;
- Discuss the national, regional and global level challenges, opportunities and issues in capacity building programmes that impact the sustainability of nuclear energy development;
- Present and discuss the competencies necessary throughout the lifecycle of nuclear energy systems from policy, through construction, operation and decommissioning;
- Identify the mechanisms that can be utilized to achieve the necessary capacity building e.g., university education programmes, training programmes from specialists, staff exchanges, international collaborations, etc.;
- Exchange information, experiences and best practices from related programmes and share lessons learned from different approaches;

- Discuss the timescales and levels of resources necessary to train and deploy a sustainable, trained and experienced workforce.

Target Audience

The INPRO Dialogue Forum is primarily open to participants from the INPRO Member States. It is also open to other interested IAEA Member States and international organizations.

Working Language(s)

The working language of the event will be English with no interpretation provided. All communications, abstracts and papers must be submitted to the IAEA in English.

Topics

The event will consist of several sessions, and all contributions, presentations, and discussions will be categorized as follows:

- Mechanisms for successful capacity building;
- The national, regional and global opportunities and challenges in capacity building for sustainable development of nuclear energy;
- Capacity building in different phases and life cycles of nuclear energy systems;
- Capacity building from different perspectives; and
- Timescales and levels of resources necessary to train and deploy a sustainable, trained and experienced workforce.

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, participants are requested to send the **Participation Form (Form A)** to their competent national authority (e.g., Ministry of Foreign Affairs, Permanent Mission to the IAEA or National Atomic Energy Authority) for further transmission to the IAEA **by 6 January 2023**. Participants who are members of an organization invited to attend are requested to send the **Participation Form (Form A)** through their organization to the IAEA by above deadline.

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

Completed and authorized Participation Forms should be sent either by email to: or by fax to: +43 1 26007 (no hard copies needed). Copies should be sent by email to the Scientific Secretaries of the event, Mr Wonho Choi (Email: W.Choi@iaea.org) and Mr Maxim Gladyshev (Email: M.Gladyshev@iaea.org) both of the Division of Nuclear Power, Mr John Roberts (Email: J.W.Roberts@iaea.org) Division of Planning, Information and Knowledge Management, and to the Administrative Secretary, Ms Lorena Tagani (Email: L.Tagani@iaea.org).

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 together with the **Participation Form (Form A)** and the attached **Form for Submission of a Presentation (Form B)** to their competent national authority (e.g., Ministry of Foreign Affairs, Permanent Mission to the IAEA or National Atomic Energy Authority) or their organization for onward transmission to the IAEA not later than **10 February 2023**.

The abstract will be reviewed as part of the selection process for presentations. The abstract should be provided in A4 page format, should extend to no more than 2 pages (including figures and tables) and should not exceed 700 words. It should be sent electronically to Mr Wonho Choi, the Scientific Secretary of the event (see contact details below), not later than **10 February 2023**. Authors will be notified of the acceptance of their proposed presentations by **28 February 2023**.

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 using the **Grant Application Form (Form C)** which has to be stamped, signed and submitted by the competent national authority to the IAEA together with the **Participation Form (Form A)** by **6 January 2023**.

Venue

The Dialogue Forum will commence at 9.30 a.m. on Monday, 14 November 2022, Oak Ridge National Laboratory, Oak Ridge, Tennessee, USA (Building 5200, 1 Bethel Valley Road, Oak Ridge TN 37831, USA, Tel: +1 865 576 7658).

Visas

Participants who need a visa for entering USA should submit the necessary application to the nearest diplomatic or consular representative of USA as early as possible, along with the invitation letter from the Agency.

Additional Information

This Dialogue Forum will be organized by the IAEA in collaboration with the Government of USA through the Oak Ridge National Laboratory (ORNL).

In order to be provided access to the Oak Ridge National Laboratory site, participants will have to complete an online security form that will be sent to participants directly by ORNL. It is imperative that this is completed within the timescales requested by ORNL. Without timely approvals, participants will not be allowed access to the site. It is therefore recommended that interested persons take the necessary steps to obtain their official designation as early as possible.

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

The organizer intends that the meeting will be held in person at Oak Ridge National Laboratory, Tennessee, USA. However, considering the COVID19 pandemic situation, its format may be adapted into a virtual or hybrid. Selected participants will be informed in due course on the procedures to be followed regarding the changes inevitable due to COVID19 pandemic situation.

IAEA Contacts

Scientific Secretary:

Mr Wonho Choi

Division of Nuclear Power
Department of Nuclear Energy
International Atomic Energy Agency
Tel.: +43 1 2600 22818
Fax: +43 1 26007 29598
Email: W.Choi@iaea.org

Postal address:

Vienna International Centre
PO Box 100
1400 VIENNA
AUSTRIA

Co-Scientific Secretaries:

Mr Maxim Gladyshev

Division of Nuclear Power
Department of Nuclear Energy
International Atomic Energy Agency
Tel.: +43 1 2600 22809
Fax: +43 1 26007 29598
Email: M.Gladyshev@iaea.org

Mr John Roberts

Division of Planning, Information and
Knowledge Management
Department of Nuclear Energy
International Atomic Energy Agency
Tel. : +43 1 2600 26730
Email : J.W.Roberts@iaea.org

Local Event Coordinator:

Mr Andrew Worrall

Nuclear Energy and Fuel Cycle Division
Oak Ridge National Laboratory
1 Bethel Valley Road
PO BOX 2008, MS-6170
Oak Ridge TN 37830-6170
UNITED STATES OF AMERICA
Tel. : +1 865 576 9369
Email : worralla@ornl.gov

Administrative Secretary:

Ms Lorena Tagani

Division of Nuclear Power
Department of Nuclear Energy
International Atomic Energy Agency
Tel.: +43 1 2600 22885
Fax: +43 1 26007 29598
Email: L.Tagani@iaea.org

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

Event Web Page

Please visit the following IAEA web page regularly for new information regarding this event:

Enclosure: Form for Submission of a Paper (Form B)

Participation Form

20th INPRO Dialogue Forum on Challenges and Issues in Capacity Building for Ensuring Nuclear Energy Sustainable Development

Oak Ridge National Laboratory, Oak Ridge, Tennessee, USA

27-31 March 2023

To be completed by the participant and sent to the competent national authority (e.g. Ministry of Foreign Affairs, Permanent Mission to the IAEA, or National Atomic Energy Authority) of his/her country for subsequent transmission to the International Atomic Energy Agency (IAEA) either by email to: Official.Mail@iaea.org or by fax to: +43 1 26007 (no hard copies needed). Please also send a copy by email to the Scientific Secretaries W.Choi@iaea.org, M.Gladyshev@iaea.org, J.W.Roberts@iaea.org, and to the Administrative Secretary L.Tagani@iaea.org.

Participants who are members of an invited organization can submit this form to their organization for subsequent transmission to the IAEA.

Deadline for receipt by IAEA through official channels: 6 January 2023

Family name(s): (same as in passport)	First name(s): (same as in passport)	Mr/Ms
Institution:		
Full address:		
Tel. (Fax):		
Email:		
Nationality:	Representing following Member State/non-Member State/entity or invited organization:	
If/as applicable:		
Do you intend to submit a paper?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Would you prefer to present your paper as a poster?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Title:		
I plan to attend virtually:	Yes <input type="checkbox"/>	No <input type="checkbox"/>

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.

Form for Submission of a Paper

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Deadline for receipt by IAEA through official channels: 10 February 2023

Title of the paper:		
If applicable: Abstract ID in IAEA-INDICO:		
Family name(s) and first name(s) of all author(s) (same as in passport(s):	Scientific establishment(s) in which the work has been carried out	City/Country
1.		
2.		
3.		
Family name(s) and first name(s) of author presenting the paper (same as in passport):	Mr/Ms:	
Mailing address:		
Tel. (Fax):		

Email:

I plan to attend virtually:

Yes No

I hereby agree to assign to the International Atomic Energy Agency (IAEA):

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- the non-exclusive, worldwide, free-of-charge licence (this option is only for those authors whose parent institution does not allow them to transfer the copyright for work carried out in that institution) granting the IAEA world rights for the use of the aforementioned material in this and any future editions of the publication, in all languages, and in all formats available now, or to be developed in the future (digital formats, hard copy etc.).

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Furthermore, I herewith declare:

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- that any permissions and rights to publish required for third-party content, including but not limited to figures and tables, have been obtained, that all published material is correctly referenced; and
- that the material submitted to the IAEA does not contain any libellous or other unlawful statements and does not contain any materials that violate any personal or proprietary rights of any person or entity.

Date:

Signature of main author:

Grant Application Form

20th INPRO Dialogue Forum on Challenges and Issues in Capacity Building for Ensuring Nuclear Energy Sustainable Development

Oak Ridge National Laboratory, Oak Ridge, Tennessee, USA

27-31 March 2023

To be completed by the applicant and sent to the competent national authority (e.g. Ministry of Foreign Affairs, Permanent Mission to the IAEA, or National Atomic Energy Authority) of his/her country for subsequent transmission to the International Atomic Energy Agency (IAEA) either by email to: Official.Mail@iaea.org or by fax to: +43 1 26007 (no hard copies needed). Please also send a copy by email to the Scientific Secretaries W.Choi@iaea.org, M.Gladyshev@iaea.org, J.W.Roberts@iaea.org and to the Administrative Secretary L.Tagani@iaea.org.

Deadline for receipt by IAEA through official channels: 6 January 2023

Family name(s): (same as in passport)	First name(s): (same as in passport)	Mr/Ms:
Mailing address:	Tel.:	
	Fax:	
	Email:	
Date of birth (yy/mm/dd):	Nationality:	
I plan to attend virtually:	Yes <input type="checkbox"/> No <input type="checkbox"/>	

1. Education (post-secondary):

Name and place of institution	Field of study	Diploma or Degree	Years attended from to	

2. Recent employment record (starting with your present post):

Name and place of employer/ organization	Title of your position	Type of work	Years worked from to	

3. Description of work performed over the last three years:

4. Institute's/Member State's programme in field of event:

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Date: **Signature of applicant:** _____

Date: **Name, signature and stamp of Ministry of Foreign Affairs, Permanent Mission
to the IAEA or National Atomic Energy Authority** _____