



Third Technical Meeting on Radiation Detection Instruments for Nuclear Security: Trends, Challenges and Opportunities

**IAEA Headquarters
Vienna, Austria**

14 - 18 August 2023

Ref. No.: EVT2206704

Information Sheet

Introduction

In accordance with the IAEA's Nuclear Security Plan 2022-2025 (GC65/24) and Nuclear Security Resolutions (GC (66)/Res/7), the Member States have encouraged the IAEA to enhance its technical capabilities and keep abreast of scientific, technological, and engineering innovations to develop guidance and facilitate training that will support Member States in implementing measures that will effectively confront current and evolving challenges, risks, and threats to nuclear security. Additionally, the Agency will undertake efforts to inform Member States of nuclear and radiation technology options which are technically feasible, economically viable, and sustainable.

The Third Technical Meeting on Radiation Detection Instruments for Nuclear Security: Trends, Challenges, and Opportunities will provide an opportunity for experts from Member States, such as front-line users, regulatory authorities, expert support members, and researchers to identify best practices, technology advancements, needs, and opportunities regarding technologies of radiation detection instruments. The technologies discussed will include both passive detection and active interrogation systems. Through presentations, breakout sessions, and discussions, Member State experts will be able to (1) identify existing solutions and potential opportunities to address detection challenges; (2) identify opportunities for collaboration with other Member States; and (3) develop sustainable solutions to challenges and build expert capacity within their own State.

Objectives

The purpose of the meeting is to bring together experts in, and users of, radiation detection instruments and active interrogation systems with the manufacturers of such equipment in order to identify:

- Functional and technical capabilities needed and desired to achieve more effective use of instruments deployed for the detection of nuclear and other radioactive material out of regulatory control;
- Specifications and testing requirements to ensure instrument capabilities meet needs;
- Requirements for networking of detection instruments and secure communications;
- Tools available or needed to transform detection instrument data into information; and
- Challenges and opportunities presented by emerging threats and technologies.

Target Audience

Experts in the development, use, specification, testing, maintenance, calibration, and sustainment of radiation detection instruments and active interrogation systems used for nuclear security purposes.

Working Language(s)

The working language of the event will be English. All communication and papers must be sent to the IAEA in English. No simultaneous interpretation will be provided.

Topics

The meeting will cover the following topics:

- National and international experiences with the detection of nuclear and other radioactive material out of regulatory control or during the response to nuclear security events;
- Current status of radiation detection instruments;
- Challenges and opportunities presented by emerging threats and technologies;
- Active interrogation systems;
- Tools for data analysis and display;
- Technical and functional specifications for radiation detection equipment;
- Network and communication systems for radiation detection instruments; and
- Research and development (R&D) of radiation detection systems.

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 onward transmission to the IAEA by **9 June 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 the above deadline.

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.

Papers and Presentations

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

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, should extend to no more than 1 page (including figures and tables) and should not exceed 500 words in electronic format through the conference's web browser-based file submission system (INDICO). Paper copies cannot be accepted.

Abstracts must be submitted to INDICO at the web address included below, no later than not later than **9 June 2023**. Authors will be notified of the acceptance of their proposed presentations by **23 June 2023**.

INDICO web address: <https://conferences.iaea.org/event/342/>

In addition, participants have to submit the abstract together with the **Participation Form (Form A)** and the attached **Form for Submission of a Paper (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 **9 June 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 **9 June 2023**.

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:

<https://www.iaea.org/events>.

[hotels.pdf \(iaea.org\)](#)

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.

Organization

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

Event Web Page

Please visit the following IAEA web page regularly for new information regarding this event:
www.iaea.org/events/EVT2206704.

Enclosure:
Participation Form (Form A); Grant Application Form (Form C) and Form for Submission of a Paper (Form B) if Abstract/Paper submission requested.

Participation Form

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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 Conference email address (3RDTM_RDE@iaea.org) and to the Administrative Secretary (M.Tonnellier@iaea.org).

[If applicable: 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: 09 June 2023

| | | |
|---|--------------------------------------|--------|
| Representing following Member-State/ non-Member State/entity or invited organization: | | |
| Family name(s): (same as in passport) | First name(s): (same as in passport) | Mr/Ms: |
| Name of Institute/Affiliation: | | |
| Address of Institute/Affiliation: | | |
| Tel. (Fax) Office/Mobile: | | |
| Email: | | |
| Date of birth (YYYY-MM-DD): | Place of birth: | |
| Nationality: | Passport number: | |
| Date/Place of issue of passport: | Passport valid until: | |

1. Education (post-secondary):

| Name and place of institution | Field of study | Diploma or Degree | Years attended | |
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2. Recent employment record (starting with your present post):

| Name and place of employer/ organization | Title of your position | Type of work | Years worked | |
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3. Description of work performed over the last three years:

4. Relevance of the event:

How do you envisage applying the knowledge and/or experience gained from the event to your current work role?

5. Language skills:

Enter your languages and your proficiency per Description

| Mother tongue: | | Proficiency Description: |
|----------------|--------------|---|
| Language: | Proficiency: | |
| | | FLUENT (F): Speak, read and write nearly as well as mother tongue |
| | | WORKING KNOWLEDGE (W): Speak, read and write nearly as well as mother tongue Engage freely in discussions, read and write more complex material |
| | | LIMITED (L): Limited conversation, reading of newspapers, routine correspondence |

6. Medical Status

Both the designating authority and the applicant acknowledge that the applicant shall be solely responsible for his or her fitness to travel, as well as for any medical requirements or precautions in connection with traveling to the event, including vaccinations or immunizations.

Yes

Date: _____ **Signature of applicant:** _____

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

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Form for Submission of a Paper

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

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

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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

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| | | |
|---------------------------------------|--------------------------------------|--------|
| Family name(s): (same as in passport) | First name(s): (same as in passport) | Mr/Ms: |
| Mailing address: | Tel.: | |
| | Fax: | |
| | Email: | |
| Date of birth (yyyy/mm/dd): | Nationality: | |

1. Education (post-secondary):

| Name and place of institution | Field of study | Diploma or Degree | Years attended | |
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2. Recent employment record (starting with your present post):

| Name and place of employer/ organization | Title of your position | Type of work | Years attended | |
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3. Description of work performed over the last three years:

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

Date: _____ **Signature of applicant:** _____

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