

Átomos para la paz y el desarrollo

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

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In reply please refer to: EVT1905398 Dial directly to extension: (+43 1) 2600-28244

La Secretaría del Organismo Internacional de Energía Atómica (OIEA) saluda a los Estados Miembros del OIEA y tiene el honor de señalar a su atención la celebración del Taller de Capacitación sobre Técnicas Avanzadas de Rayos X para la Caracterización de Muestras y Objetos Valiosos (denominado en adelante el "evento"), que tendrá lugar de forma virtual a través de Microsoft Teams, del 6 al 10 de septiembre de 2021.

La finalidad del evento es impartir capacitación práctica en técnicas avanzadas de rayos X para la caracterización de muestras y objetos valiosos.

En la reseña informativa adjunta se ofrecen más detalles sobre el evento.

El evento se celebrará en inglés.

Se invita a los Estados Miembros a designar a una o más personas para que participen en este evento en representación de su Gobierno y se los alienta encarecidamente a que seleccionen con ese fin a mujeres cualificadas.

Las designaciones deben presentarse al OIEA por conducto de la autoridad nacional competente (el Ministerio de Relaciones Exteriores, la Misión Permanente ante el OIEA o la Autoridad Nacional de Energía Atómica), a más tardar el 23 de julio de 2021, por medio del formulario de participación adjunto (Formulario A). Los formularios de participación debidamente cumplimentados y autorizados deben enviarse por correo electrónico a la dirección Official.Mail@iaea.org o por fax al número: +43 1 26007 (no se precisan copias impresas). Asimismo, han de enviarse copias por correo electrónico al Secretario Científico del evento, Sr. Román Padilla Álvarez, División de Ciencias Físicas y Químicas, Departamento de Ciencias y Aplicaciones Nucleares (correo electrónico: R.Padilla-Alvarez@iaea.org), y a la Secretaria Administrativa, Sra. Ragdaa Attia (correo electrónico: R.Attia@iaea.org). Una vez recibidas las designaciones oficiales, el Secretario Científico del evento contactará directamente a los participantes en relación con otras cuestiones de organización, según proceda.

En caso de que los Gobiernos desearan, además, nombrar uno o más observadores para que prestasen asistencia y asesoramiento a los participantes designados, se les ruega que comuniquen al OIEA el nombre y las señas de esos observadores a más tardar en la fecha antes indicada.

El OIEA no se hace responsable de virus informáticos, gusanos, troyanos, puertas traseras, temporizadores, relojes, contadores o cualquier otra rutina, instrucción o diseño que limiten el funcionamiento, u otro código no solicitado malicioso, ilícito o similar, incluidos programas de vigilancia o rutinas que puedan permitir a cualquier persona, o por iniciativa propia, el acceso con el objetivo de borrar, o dañar o modificar de cualquier otro modo datos o sistemas, servidores, instalaciones u otra infraestructura del usuario final (colectivamente, "código inhabilitante"). Asimismo, el proveedor de los servicios para la reunión virtual ha asegurado y garantizado que los Servicios no contendrán, ni ningún usuario final recibirá del programa informático empleado para celebrar la reunión virtual, ninguno de estos códigos inhabilitantes.

La Secretaría del Organismo Internacional de Energía Atómica aprovecha esta oportunidad para reiterar a los Estados Miembros del OIEA el testimonio de su distinguida consideración.



24 de junio de 2021

Documentación adjunta (en inglés únicamente):

Reseña informativa

Formulario de participación (Formulario A)



Training Workshop on Advanced X-ray Techniques for Characterization of Valuable Samples and Objects

Virtual Event

6-10 September 2021

Ref. No.: EVT1905398

Information Sheet

Introduction

Over the last 20 years, the International Atomic Energy Agency's Nuclear Science and Instrumentation Laboratory (NSIL) has played a leading role worldwide in the effective use of nuclear instrumentation and nuclear spectrometry techniques, including the development of X-ray fluorescence techniques and portable systems and analytical methodologies for in situ radiological and materials characterization in Member States priority areas, such as on-site environmental assessment, mineral prospecting and the study of cultural heritage objects.

The NSIL also has access for IBA measurements at the Ruđer Bošković Institute (Zagreb, Croatia) and to end-stations at the Elettra Synchrotron beamlines (Trieste, Italy). The access of IAEA Member States' investigators to such facilities for experimental work and adaptive research is promoted and facilitated through different mechanisms.

In addition to these research activities, the NSIL has supported IAEA technical cooperation projects by providing training in nuclear instrumentation to hundreds of fellows and scientific visitors. The NSIL has extensive experience in providing training and recommendations for implementing nuclear spectrometry techniques.

Objectives

The objective of the workshop is to develop capabilities and skills of Member States to develop, maintain and operate advanced X-ray spectrometry instruments; to share knowledge on different X-ray based techniques for both bulk and spatially resolved measurements of unique and valuable objects; to nurture and further develop the community and network of scientists and technicians utilizing these techniques; and to strengthen the interactions of these providers of specialized services with stakeholders that can benefit from the application of these techniques. The following topics are expected to be included in the programme:

- i. Techniques for spatially resolved elemental analysis: SEM-EDS, Micro and Confocal XRF, Full Field XRF and micro-PIXE.
- ii. Synchrotron-based techniques for elemental analysis and speciation studies.
- iii. Addressing current needs of IAEA Member States for introducing and extending the use of x-ray techniques in support of advanced characterization of special materials, including cultural heritage objects,
- iv. Role of the IAEA in supporting the activities undertaken by developing Member States to achieve effective introduction of x-ray techniques.

Workshop format

The Workshop will be organised in virtual mode using as platform Microsoft Teams Meetings and will include lectures and video recorded practical demonstrations using the instrumentation available at NSIL and its collaborating centres. Lectures will be provided by selected experts and followed by the video recorded demonstrations.

Participants will be muted and not allowed to share their cameras as to keep the data traffic as low as possible, and to accommodate to the possible restrictions in bandwidth access of some countries. Only the contributors will be given role of presenter at their allocated time. Attendants will be able to post questions using the chat. At the end of each sessions, the questions will be asked to each of the presenters by the moderator.

The official language of the workshop is English. No interpretation will be provided. It is expected that the workshop will start at 14:00 (CET) on Monday, 6 September 2021 and conclude by 17:30 on Friday, 10 September 2021.

Target Audience

The workshop may be attended only upon official nomination. Participants should complete the attached Participation Form (Form A) and send it to the appropriate national authority (Ministry of Foreign Affairs, Permanent Mission to the IAEA or National Atomic Energy Authority) for subsequent transmission to the IAEA, not later than 23 July 2021. Nominations received after that date or applications sent directly by individuals or by private institutions cannot be considered. Nominating Governments will be informed in due course of the names of the selected candidates and at that time full details will be given on the procedures to be followed with regard to administrative and financial matters.

The workshop will be of interest to professionals involved in the field of x-ray spectrometry techniques for characterization of special objects, or who have been designated by their national authorities to provide an assessment of their country's needs in these fields. Professionals of organizations that can benefit from the application of these techniques, such as museum curators, archaeologists or analysts from criminal forensic laboratories are also welcomed.

Abstract submission:

The Workshop aims at training of participants, so no contribution nor papers are required from participants. However, to optimize the evaluation of applications, participants are invited to submit a short abstract describing: the nature of their work, their motivation to attend the workshop, the future activities planned in their home institution based on the workshop techniques.

The abstract must be sent, together with Form A, to the appropriate national authority, and also directly to the IAEA Scientific Secretary (R.Padilla-Alvarez@iaea.org), by 23 July 2021.

Working Language(s)

English

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 **23 July 2021**. 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 and technical matters.

Participants are hereby informed that the personal data they submit will be processed in line with the <u>Agency's Personal Data and Privacy Policy</u> and is collected solely for the purpose(s) of reviewing and assessing the application and to complete logistical arrangements where required. Further information can be found in the <u>Data Processing Notice</u> concerning IAEA InTouch+ platform.

IAEA Contacts

Scientific Secretary:

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Subsequent correspondence on scientific matters should be sent to the Scientific Secretary 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/EVT1905398



Participation Form

Training Workshop on Advanced X-ray Techniques for Characterization of Valuable Samples and Objects

Virtual Event

6–10 September 2021

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 Secretary R.Padilla-Alvarez@iaea.org and to the Administrative Secretary R.Attia@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: 23 July 2021

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 No				
Would you prefer to present	t your paper as a po	ster? Yes	No 🗌	
Title:				

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