



*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

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In reply please refer to: EVT2104152

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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 **Workshop on Innovative Accelerator Science and Technology Approaches to Sustainable Heritage Management** (hereinafter referred to as "event") to be held at the IAEA's Headquarters in Vienna, Austria, from **13 to 16 June 2022**.

In addition, the event will allow for virtual participation via Microsoft Teams.

The purpose of the event is to discuss recent developments in accelerator-based techniques and data science for sustainable heritage management.

The attached Information Sheet provides further details of the event.

The event will be held in English.

Member States are invited to designate 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(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 **7 April 2022** using the attached Participation Form (Form A). Completed and authorized Participation Forms should be sent either by email to: [Official.Mail@iaea.org](mailto:Official.Mail@iaea.org) or by fax to: +43 1 26007 (no hard copies needed). Copies should be sent by email to the Scientific Secretary of the event, Ms Aliz Simon, Division of Physical and Chemical Sciences, Department of Nuclear Sciences and Applications (Email: [Aliz.Simon@iaea.org](mailto:Aliz.Simon@iaea.org)), and to the Administrative Secretary, Mr Rubén Gómez Zaragoza (Email: [R.Gomez-Zaragoza@iaea.org](mailto:R.Gomez-Zaragoza@iaea.org)). The Scientific Secretary of the event will liaise with the participants directly concerning further arrangements, including travel details, as appropriate, once official designations have been received.

The IAEA takes no responsibility for, and the provider of the virtual meeting services has represented and warranted that the Services shall not contain, and that no end user shall receive from the software used to hold the virtual meeting, any virus, worm, trap door, back door, timer, clock, counter or other limiting routine, instruction or design, or other malicious, illicit or similar unrequested code, including surveillance software or routines which may, or is designed to, permit access by any person, or on its own, to erase, or otherwise harm or modify any data or any system, server, facility or other infrastructure of any end user (collectively, a “Disabling Code”).

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.



2022-02-04

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*

# **Workshop on Innovative Accelerator Science and Technology Approaches to Sustainable Heritage Management**

**IAEA Headquarters, Vienna, Austria**  
and virtual participation via Microsoft Teams

**13–16 June 2022**

**Ref. No.: EVT2104152**

## **Information Sheet**

### **Introduction**

The main idea of Heritage Management is embedded within the World Heritage Convention (1972). It states that it is our obligation, as humans, to promote the identification, protection, conservation, preservation, and transmission to future generations of the cultural and natural heritage. Sustainably pursuing such activities started to appear later, such as on the Budapest Declaration (2002), and has become a central notion on all human affairs. There should always be a balance on what is produced and what is preserved, on the new and the old, so that future generations can flourish knowing where its roots are.

The big breakthroughs which change our thinking and knowledge are expected to come at the intersection of the major disciplines. Increasingly apparent to scientists, science policy makers and governmental agencies is that an understanding of mankind's past and its impact on the environment is central to tackle the problems of global warming, biodiversity, landscape management and sustainability.

Analytical techniques using intense photon, electron and ion beams produced by particle accelerators, synchrotrons, microscopes and other sources are powerful tools to gain better insight into our tangible heritage. They indeed contribute to understand their structure, composition, age, manufacturing

technology and techniques applied, the source of materials used and understand their alteration and possible earlier conservation treatment. It is also possible to determine whether an artefact is original or fake by applying these techniques. Using ionizing radiation for the conservation of tangible cultural heritage is a very efficient method.

## **Objectives**

The overall objective of this Workshop is to provide a forum for nuclear scientists, conservators, curators, art historians, archaeologist and heritage science stakeholders including policy makers and funding agencies to present and discuss recent developments in accelerator-based techniques and data science as well as exchange ideas and build collaborations on innovative approaches of accelerator science and technology for cultural and natural heritage and its sustainable management.

## **Expected Outputs**

Through scientific presentations and discussions, this Workshop is aimed to deliver the following expected outputs:

- To identify the key infrastructures, research organisations, museums, curators, funding agencies and other actors of importance to the field to explore linkages and pursue international collaborations;
- To provide best practice on modalities on sustainable heritage management from various Member States;
- Through recent developments and case studies enhance the role and use of accelerator-based techniques for the characterisation and treatment of tangible heritage;
- To initiate and foster international collaborations and develop strategies for multi-national research projects.

## **Target Audience**

The event is intended both for young and experienced scientists, archaeologists, conservators, curators, art historians, and heritage science stakeholders including policy makers and funding agencies actively involved in the field of characterisation, treatment and management of cultural and natural heritage objects.

## Working Language

The official language of the meeting is English (no interpretation will be provided).

## Structure

The meeting will be held as a hybrid meeting, at the IAEA Headquarters, Vienna, and virtually via Microsoft Teams.

The meeting will have invited and contributed oral talks presented in sessions devoted to special topics mentioned below, with subsequent discussions. A poster session will be also organized. Panel discussions on specific topics are also planned. As part of the workshop, the participants will be involved in a roundtable discussion to provide recommendations that will help to explore key topics that are relevant to Member States, especially developing countries, that are considering establishing or developing their collaboration in the field of Heritage Science, Conservation Science and Heritage Management. The final session of the workshop will be dedicated to summarizing and reviewing activities and recommendations.

It is expected that the meeting will start at 10 a.m. on 13 June 2022 and finish by 3 p.m. on 16 June 2022 (Vienna time zone, UTC +1). A summary session will be held on 16 June 2022 to review the activities and conclusions drawn at the meeting that will be documented in a final report. Directions for future research will be also discussed and presented.

## Topics

The key topics of the workshop are:

- Application of accelerator science and technology for characterization and treatment of heritage objects and materials;
- Interpretation, presentation and dissemination of the scientific results: case studies and success stories;
- Safe analysis of heritage objects; Best practice and Irradiation Passport for Art;
- Detecting intellectual property crime as forgeries and fighting illicit trade of art objects with nuclear techniques;
- Access to research infrastructure, and international as well as regional collaborations and networks;
- Sustainable Heritage Management policies and modalities;
- Open Science and dissemination of knowledge;
- Research priorities, Resources, and funding structures for heritage science;
- How to make science tangible? - Public awareness of how science and heritage work together in a tangible way – novel methods in education and outreach;

## International Programme Advisory Committee (IPAC)

Name	Affiliation
Mr Loïc Bertrand	Université Paris-Saclay, ENS Paris-Saclay, France
Mr Douglas Galante	The Brazilian Synchrotron Light Laboratory (LNLS), The Brazilian Center for Research in Energy and Materials (CNPEM), Campinas (SP), Brazil
Ms Ineke Joosten	Cultural Heritage Agency of the Netherlands, Amersfoort, Netherlands.
Ms Polytimi Loukopoulou	Hellenic Ministry of Culture, Athens, Greece
Mr Francesco Taccetti	Istituto Nazionale di Fisica Nucleare, Florence, Italy
Mr Samuel M. Webb	Stanford Synchrotron Radiation Lightsource (SSRL), SLAC National Accelerator Laboratory, Menlo Park, USA

## 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 **7 April 2022**. 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 [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.

About 80-100 people from IAEA Member States and international organizations are expected to attend. Participants should be persons actively involved in the topics of the meeting like accelerator-scientists, physicists, material scientists, chemists, archaeologists, conservators, curators, art historians, policy makers, research fund agencies and Heritage Management Institutions.

## 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. Anyone presenting a contribution at the event is requested to submit an abstract of not more than 500 words through IAEA-INDICO platform by **7 April 2022**. Abstracts may contain figures and graphics and are to be uploaded as a PDF file. Instructions on how to upload the abstracts will be available on the IAEA-INDICO website (<https://conferences.iaea.org/event/291/>).

Authors are encouraged to flag their proposals as an oral or poster presentation. However, the International Programme Advisory Committee will evaluate all submissions and decide on the final presentation format.

Authors will be notified by email by **28 April 2022** of the acceptance of their proposed presentations.

### (1) IAEA Participation

A participant will be accepted only, if the Participation **Form A** is transmitted to the IAEA **through the appropriate Governmental representative authority** (e.g. Ministry of Foreign Affairs, National Atomic Energy Authority) by **7 April 2022**.

Those who would like to present their results either as an oral or poster contribution are requested to submit an **abstract** and **Form B** together with **Form A through the appropriate Governmental representative authority**.

### Additional Requirements

A questionnaire is part of the selection process and will be sent to participants who do not submit an abstract upon receipt of the endorsed forms.

### Publication

A Book of Abstracts will be compiled for free distribution during the meeting to every participant. A meeting report will be prepared during the meeting and distributed to each meeting participant.

### Expenditures and Financial Support

The costs for the organization of the meeting are borne by the IAEA.

No registration fee will be charged to participants attending the meeting.

As a general rule, the IAEA does not pay for participants' travel and living expenses. However, limited funds are available to help meet the cost of attendance of selected specialists, mainly from developing countries with low economic resources. Generally, not more than one travel grant may be awarded to any one country.

If Governments wish to apply for a grant on behalf of one of their specialists, they should address specific requests to the IAEA Scientific Secretary at the International Atomic Energy Agency to this effect. Governments should ensure that applications for grants:

- a) are received by the IAEA before 7 April 2022,
- b) are accompanied by a duly completed and signed Grant Form C,
- c) are accompanied by a duly completed and signed Form A, Form B and abstract fully relevant to the scope of the technical meeting.

Applications that do not comply with the conditions mentioned above cannot be considered.

Awards will be announced around 28 April 2022.

Required forms:

Participant wishes to present an oral or poster presentation	Form A, Form B and abstract with oral or poster presentation preference
Participant with no presentation	Form A and questionnaire
Participant wishes to apply for financial support	Form A, Form B, Form C and abstract with oral or poster presentation preference

## Venue and accommodation

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/guide-to-the-vic>

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

<b>7 April 2022</b>	Deadline for submission of abstracts through IAEA-INDICO for regular contributions
<b>7 April 2022</b>	Deadline for submission of Participation Form (Form A), Form for Submission of a Paper (Form B) and Grant Application Form (Form C) (if applicable) through the official channels
<b>28 April 2022</b>	Notification of acceptance of abstracts and of assigned awards
<b>16 May 2022</b>	Information on the meeting agenda, platform and remote connections are sent to the meeting participants
<b>13 June 2022</b>	Workshop begins
<b>16 June 2022</b>	Workshop ends

## IAEA Contacts

### Scientific Secretaries:

**Ms Aliz Simon**

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Department of Nuclear Sciences and Applications  
International Atomic Energy Agency  
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AUSTRIA

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**Ms Léna Bassel**

Division of Physical and Chemical Sciences  
Department of Nuclear Sciences and Applications  
International Atomic Energy Agency  
Vienna International Centre  
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Tel.: +43 69916-524666

Fax: +43 1 26007

Email: [L.Bassel@iaea.org](mailto:L.Bassel@iaea.org)

### Administrative Secretary:

**Mr Rubén Gómez Zaragoza**

Division of Physical and Chemical Sciences  
Department of Nuclear Sciences and Applications  
International Atomic Energy Agency  
Vienna International Centre  
P.O. Box 100  
1400 VIENNA  
AUSTRIA

Tel.: +43 1 2600 26393

Fax: +43 1 26007

Email: [R.Gomez-Zaragoza@iaea.org](mailto:R.Gomez-Zaragoza@iaea.org)

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.

## Workshop Web Pages

Participants are encouraged to visit these web pages regularly to check for new or updated information regarding the meeting:

Workshop webpage: <https://nucleus.iaea.org/sites/accelerators/Pages/Accelerators4Heritage.aspx>

IAEA-INDICO for abstract submission and programme: <https://conferences.iaea.org/event/291/>

# Participation Form

## Workshop on Innovative Accelerator Science and Technology Approaches to Sustainable Heritage Management

IAEA Headquarters, Vienna, Austria and virtual participation via Microsoft Teams

13–16 June 2022

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](mailto: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 [Aliz.Simon@iaea.org](mailto:Aliz.Simon@iaea.org) and to the Administrative Secretary [R.Gomez-Zaragoza@iaea.org](mailto:R.Gomez-Zaragoza@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: 7 April 2022**

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.



# 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.

**Deadline for receipt by IAEA through official channels: 7 April 2022**

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):

the copyright; or

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.).

**Please note:** If granting the licence mentioned above, please supply any copyright acknowledgement text required.

Furthermore, I herewith declare:

that the material submitted to the IAEA is original, except for such excerpts from copyrighted works as may be included with the permission of the copyright holders thereof, has been written by the stated authors, has not been published before, and is not under consideration for publication by another entity;

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

## Workshop on Innovative Accelerator Science and Technology Approaches to Sustainable Heritage Management

IAEA Headquarters, Vienna, Austria and virtual participation via Microsoft Teams

13–16 June 2022

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](mailto: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 [Aliz.Simon@iaea.org](mailto:Aliz.Simon@iaea.org) and to the Administrative Secretary [R.Gomez-Zaragoza@iaea.org](mailto:R.Gomez-Zaragoza@iaea.org).

**Deadline for receipt by IAEA through official channels: 7 April 2022**

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:

Date: Signature of applicant: \_\_\_\_\_

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