



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: **EVT2103802**
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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 Characterization and Monitoring to Support the Management of Radioactively Contaminated Land** (hereinafter referred to as "event") to be held at the IAEA's Headquarters in Vienna, Austria, from **10 to 14 October 2022**.

The purpose of the event is to increase Member States' technical understanding and knowledge of relevant techniques and technologies for the characterization and monitoring of contaminated land, and to promote good practices in this area.

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 participants 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 **12 August 2022** 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 Secretary of the event, Ms Kim Baines, Division of Nuclear Fuel Cycle and Waste Technology, Department of Nuclear Energy (Email: K.Baines@iaea.org), and to the Administrative Secretary, Ms Iris Kridtner (Email: I.Kridtner@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.

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.



2022-06-23

Enclosures: Information Sheet
 Participation Form (Form A)
 Grant Application Form (Form C)



IAEA

International Atomic Energy Agency

Atoms for Peace and Development

Workshop on Characterization and Monitoring to Support the Management of Radioactively Contaminated Land

**IAEA Headquarters,
Vienna, Austria**

10–14 October 2021

Ref. No.: EVT2103802

Information Sheet

Introduction

Contaminated sites and areas requiring environmental improvement exist across the world. Critical to ensuring their clean up and reuse is the ability to characterize and monitor the site before, during and after physical works.

Characterization and monitoring of contaminated land is a multi-disciplinary task requiring a range of expertise and technical backgrounds. It can include the use of in field instrumentation, sampling strategies and techniques, laboratory analysis and data assessment and visualization.

Before starting a characterization project or monitoring programme, it is essential to build an understanding of the potential contaminant sources, the receptors that maybe at risk and the migration pathways. This conceptual site model underpins the development of the characterization or monitoring strategy and all other tasks associated with the management of the radioactively contaminated land.

In general characterization is an iterative process underpinned by systematic planning approach; data maybe collected at different times and through different methods which are then combined to produce the overall status a site. For example, in situ survey techniques provide the opportunity to gain real-time information on the spatial distribution of radioactive contaminants and inform sample collection. Geo-statistics can then be used to integrate and evaluate the data sets to support further characterization, for use in safety assessment, to underpin waste management decisions and/or to inform remedial design.

This training workshop is part of an on-going series of activities organised by the International Atomic Energy Agency's (IAEA's) Decommissioning and Environmental Remediation Section to support Member States in the characterization of radioactively contaminated land.

Since characterization of contaminated land is a multi-disciplinary activity, this workshop is supported by experts from the IAEA's Terrestrial Environmental Laboratory and the Waste and Environmental Safety Section.

Objectives

The objective of the workshop is to increase the knowledge and skills of early career practitioners, scientists, and technicians regarding the key steps in the characterization of radioactively contaminated land.

The workshop will also enable Member States to share good practices and experience related to the methodologies and technologies used for the characterization of radioactively contaminated land.

Topics

This workshop is designed to provide overarching knowledge of the key technical aspects regarding the planning and implementing characterization of radioactively contaminated land. This workshop will comprise lectures, tutorial exercises and equipment demonstrations.

The following topics are expected to be included in the programme:

- Creating a conceptual site model
- Systematic planning for environmental characterisation
- Environmental monitoring with a focus on groundwater monitoring
- Designing and implementing soil and vegetation sampling plans
- Familiarisation, selection and use of in situ radiological survey equipment
- Data visualisation, spatial analysis and mapping using geostatistical techniques.

Target Audience

This an introductory training workshop and is intended for individuals involved the radiological characterization and remediation of radioactively contaminated land. The course is particularly applicable to early career practitioners, scientists and technicians carrying out radiological characterization and groundwater monitoring activities and trainees pursuing a career within the field of radioactive contaminated land management.

The course would also be relevant to project managers responsible for the implementation of radiological characterization programmes.

Working Language

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.

Nominations will not be considered unless a personal abstract is provided (see additional requirements section).

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 **12 August 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 the above deadline.

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

Additional Requirements

Participants should submit with their official designation a personal abstract describing their experience and interest in the topics of the workshop and their respective country's needs.

The personal abstract should include at least the following:

- Job title and description of duties
- Name and brief description of the contaminated site(s) where they are working on or have recently worked
- Specific contaminants and environmental media they are interested in
- Whether they have participated in other training events on characterization and/or monitoring radioactively contaminated land.

The selection of the participants will be based on the information provided in the personal abstract.

Prior to attending the workshop, participants must complete three IAEA e-learning modules on environmental remediation and in situ techniques for radiological characterization of sites. The e-learning will be assigned via the IAEA Learning Management System (CLP4NET) to track the completion of the e-learning.

Participants are also expected to be familiar with the following IAEA publications prior to attending the workshop:

- Remediation Strategy and Process for Areas Affected by Past Activities or Events, IAEA Safety Standard Series No. GSG-15, IAEA, final draft available. (Note, this Safety Standard replaces Remediation Process for Areas Affected by Past Activities and Accidents, IAEA Safety Standards Series No. WS-G-3.1, 2007).
- Guidelines on Soil and Vegetation Sampling for Radiological Monitoring, Technical Reports Series No. 486, IAEA, 2019.

- In Situ Analytical Characterization of Contaminated Sites Using Nuclear Spectrometry Techniques: Review of Methodologies and Measurements, IAEA/AQ/49, IAEA Analytical Quality in Nuclear Applications Series No. 49, IAEA, Vienna, 2017.
- Guidelines for radioelement mapping using gamma ray spectrometry data, IAEA-TECDOC-1363, IAEA, 2003.

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 management of radioactively contaminated land in his or her State's.

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 **12 August 2022**.

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.

IAEA Contacts

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1400 VIENNA
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Email: I.Kridtner@iaea.org

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.

Event Web Page

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

www.iaea.org/events/EVT2103802

Participation Form

Workshop on Characterization and Monitoring to Support the Management of Radioactively Contaminated Land

IAEA Headquarters, Vienna, Austria

10 to 14 October 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 or by fax to: +43 1 26007 (no hard copies needed). Please also send a copy by email to the Scientific Secretary, Ms Kim Baines, Division of Nuclear Fuel Cycle and Waste Technology, Department of Nuclear Energy (Email: K.Baines@iaea.org) and to the Administrative Secretary, Ms Iris Kridtner, (Email: I.Kridtner@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: 12 August 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	No
Would you prefer to present your paper as a poster?	Yes	No
Title:		

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. Further information can be found in the [Data Processing Notice](#) concerning IAEA InTouch+ platform.

Grant Application Form

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Deadline for receipt by IAEA through official channels: 12 August 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 (yyyy/mm/dd):	Nationality:	

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 attended	
			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**
