



Training Course on the Use of the Noble Gases in Hydrological Studies: Part 1

Virtual Event

9 - 12 June 2026

Ref. No.: EVT2503838

Information Sheet

Introduction

Groundwater is a vital freshwater resource that supports drinking water supply, agriculture, and ecosystems in many regions of the world. Understanding the origin, residence time, and flow dynamics of groundwater is therefore essential for sustainable water resource management. Noble gas isotopes provide powerful tools for investigating groundwater systems, as they allow researchers to estimate groundwater ages, reconstruct recharge conditions, and improve the understanding of subsurface flow processes. In recent years, the application of noble gas isotopes has become increasingly important in hydrological research, particularly when combined with other environmental tracers and modelling approaches.

Objectives

The purpose of the course is to provide (a) knowledge on the role of noble gas isotopes in hydrological research, (b) knowledge on the principles of groundwater dating using noble gas isotopes, and (c) comprehensive hands-on training in the handling and interpretation of noble gas isotope data from groundwater samples. The training course will comprise lectures covering the theoretical concepts of noble gas isotope applications in environmental studies, followed by practical exercises as well as isotope data post-processing and interpretation.

Target Audience

The training course is open up to 20 participants. Selection priority is given to technical staff of counterparts of IAEA Technical Cooperation projects and Coordinated Research Projects currently conducting noble gas isotope analysis for groundwater dating purposes. External participants are accepted based on space availability and at their own cost. Completion of this online course is a prerequisite for participation in the in-person training normally held in Vienna in the autumn.

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 or invited organization, participants are requested to submit their application via the InTouch+ platform (<https://intouchplus.iaea.org>) to the competent national authority (Ministry of Foreign Affairs, Permanent Mission to the IAEA or National Atomic Energy Authority) or organization for onward transmission to the IAEA by **8 May 2026**, following the registration procedure in InTouch+:

1. Access the InTouch+ platform (<https://intouchplus.iaea.org>):
 - Persons with an existing NUCLEUS account can sign in to the platform with their username and password;
 - Persons without an existing NUCLEUS account can register [here](#).
2. Once signed in, prospective participants can use the InTouch+ platform to:
 - Complete or update their personal details under ‘Complete Profile’ and upload the relevant supporting documents;
 - Search for the relevant event under the ‘My Eligible Events’ tab;
 - Select the Member State or invited organization they want to represent from the drop-down menu entitled ‘Designating Authority’ (if an invited organization is not listed, please contact InTouchPlus.Contact-Point@iaea.org);
 - Based on the data input, the InTouch+ platform will automatically generate the Participation Form (Form A) and/or the Grant Application Form (Form C);
 - Submit their application.

Once submitted through the InTouch+ platform, the application, together with the auto-generated form(s), will be transmitted automatically to the required authority for approval. If approved, the application, together with the applicable form(s), will automatically be sent to the IAEA through the online platform.

NOTE: The application for financial support should be made, together with the submission of the application, by **08 May 2026**.

For additional information on how to apply for an event, please refer to the [InTouch+ Help](#) page. Any other issues or queries related to InTouch+ can be sent to InTouchPlus.Contact-Point@iaea.org.

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

In addition to the registration already submitted through the InTouch+ platform, participants have to submit the abstract, together with the Form for Submission of a Paper (Form B), to the competent national authority (e.g. Ministry of Foreign Affairs, Permanent Mission to the IAEA or National Atomic Energy Authority) or organization for onward transmission to the IAEA not later than .

Submission of a paper should be confirmed, together with the submission of the main application via the InTouch+ platform, by .

Organization

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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.