



# **Training Course on Nitrate Isotope Analysis by Laser Spectroscopy and Isotope Ratio Mass Spectroscopy: Part 1**

**Virtual Event**

**24 - 28 March 2025**

**Ref. No.: EVT2404646**

## **Information Sheet**

### **Introduction**

Part 1 of the Training Course on Nitrate Isotope Analysis by Laser Spectroscopy and Isotope Ratio Mass Spectroscopy will provide participants with an understanding of how nitrogen and oxygen isotopes of nitrate, hence referred to as nitrate isotopes, can be used in isotope hydrology. Participants will learn about sample collection, preservation, and shipping, as well as the various methods available for nitrate isotopic analysis. Note, Part 1 is a pre-requisite to participation in Part 2, which will be held in-person in Vienna.

### **Objectives**

To provide participants with a comprehensive understanding of how nitrate isotopes can be utilized in isotope hydrology studies. To equip participants with the knowledge and skills required for proper sample collection, preservation, and shipping. To introduce participants to various laboratory techniques for measuring nitrate concentration and preparing samples for isotopic analysis via isotope ratio mass spectrometry and laser spectroscopy.

## Target Audience

Selection priority is given to technical staff of Member States who are currently conducting nitrate isotope analyses and those interested in developing this application. The course is open to counterparts of IAEA Technical Cooperation projects and Coordinated Research Projects. External participants are accepted based on space availability and at their own cost. Participants should have a background in stable isotope analysis, isotope hydrology, or a related field and who have an interest in developing nitrate isotope techniques for hydrological applications. As the training course is conducted in English, participants should have sufficient proficiency to follow lectures and express themselves in the English language without difficulty.

## 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 **16 January 2025**, 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](mailto:InTouchPlus.Contact-Point@iaea.org));
  - If applicable, indicate whether financial support is requested and complete the relevant information (this is not applicable to participants from invited organizations);
  - 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 **16 January 2025**.

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](mailto: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.

## Organization

### Scientific Secretary

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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.