



Regional Training Course on Isotopic and Nuclear Related Techniques for Carbon Sequestration and GHG Emission Assessment

Hosted by

The Government of Croatia

through the

University of Zagreb; Faculty of Agriculture

Zagreb, Croatia

5 to 9 October 2026

Ref. No.: TN-RER5030-2602326

Information Sheet

Purpose

The purpose of this event is to train the participants in isotopic, nuclear, and related techniques to assess carbon sequestration and monitor greenhouse gas emission in agricultural ecosystems.

Working Language(s)

The working language(s) of the event will be English.

Deadline for Nominations

Nominations received after **17 July 2026** will not be considered.

Project Background

This regional project is a coordinated effort to strengthen food security, agricultural sustainability, and climate resilience through the strategic use of nuclear and isotopic technologies. The project addresses key regional challenges such as climate change, soil degradation, and water scarcity by promoting science-based solutions.

Climate change is increasingly affecting agriculture across Europe, with reduced summer rainfall, rising temperatures, and more frequent extreme weather events. Uneven rainfall distribution contributes to soil erosion, land degradation, and declining soil fertility, often leading to greater reliance on fertilizers and pesticides and increased risk of water pollution.

Ensuring sustainable agriculture under these conditions is a growing challenge. Improved understanding of impacts on soil, water, and crop productivity is essential, along with enhanced monitoring and more efficient water use.

Isotopic and nuclear related techniques, when combined with other modern technologies and approaches, can help tailor agricultural practices to adapt to climate change. These techniques enable measurement of carbon and plant nutrient dynamics in soils, as well as monitoring soil moisture and soil water availability. By implementing such techniques, sustainable agricultural production can be promoted even under harsh climatic conditions while mitigating negative impacts on land and water quality.

Scope and Nature

This regional training course provides theoretical and practical knowledge on the use of isotopic, nuclear, and related techniques in assessing and monitoring carbon sequestration as well as emission of greenhouse gases from agricultural ecosystems. It addresses key challenges such as declining soil fertility and emission of greenhouse gases from agricultural soils, low crop productivity, and inefficient nutrient and water use, while offering theoretical overview and practical guidance on climate-resilient soil, nutrient, and water management.

Participation

The event is open to participants from the participating Member States of the regional project RER5030 with qualification/experience corresponding to the requirements described under “Participants’ Qualifications and Experience”.

Participants' Qualifications and Experience

The nominated participants should represent authorities and organisations in charge of agricultural or environmental research, and they should have education in earth sciences, agricultural sciences or life sciences related to agriculture.

Application Procedure

Candidates wishing to apply for this event should follow the steps below:

1. Access the InTouch+ home page (<https://intouchplus.iaea.org>) using the candidate's existing Nucleus username and password. If the candidate is not a registered Nucleus user, she/he must create a Nucleus account (<https://websso.iaea.org/IM/UserRegistrationPage.aspx>) before proceeding with the event application process below.
2. On the InTouch + platform, the candidate must:
 - a. Finalize or update her/his personal details, provide sufficient information to establish the required qualifications regarding education, language skills and work experience ('Profile' tab) and upload relevant supporting documents;
 - b. Download and complete the [Designation of Beneficiary and Emergency Contact Form](#), and upload to InTouch+ ('Profile' tab under the personal section) specifying the document name. If already provided, kindly discard this step; and
 - c. Search for the relevant technical cooperation event (EVT2602326) under the 'My Eligible Events' tab, answer the mandatory questions and lastly submit the application to the required authority.

NOTE: Completed applications need to be approved by the relevant national authority, i.e. the National Liaison Office, and submitted to the IAEA through the established official channels by the provided designation deadline.

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

Should online application submission not be possible, candidates may download the nomination form for the training course from the [IAEA website](#).

NOTE: A medical certificate signed by a registered medical practitioner dated not more than four months prior to starting date of the event must be submitted by candidates when applying for a) events with a duration exceeding one month, and/or b) all candidates over the age of 65 regardless of the event duration.

Administrative and Financial Arrangements

Nominating authorities will be informed in due course of the names of the candidates who have been selected, and will at that time be informed of the procedure to be followed with regard to administrative and financial matters.

Selected participants will receive an allowance from the IAEA sufficient to cover their costs of lodging, daily subsistence and miscellaneous expenses. They will also receive either a round-trip air ticket based on the most direct and economical route between the airport nearest their residence and the airport nearest the duty station through the IAEA's travel agency AX Travel Management, or a travel allowance, or they will be reimbursed travel by car/bus/train in accordance with IAEA rules for non-staff travel.

Disclaimer of Liability

The organizers of the event do not accept liability for the payment of any cost or compensation that may arise from damage to or loss of personal property, or from illness, injury, disability or death of a participant while he/she is travelling to and from or attending the event, and it is clearly understood that each Government, in approving his/her participation, undertakes responsibility for such coverage. Governments would be well advised to take out insurance against these risks.

Note for female participants

Any woman engaged by the IAEA for work or training should notify the IAEA on becoming aware that she is pregnant.

The Board of Governors of the IAEA approved new International Basic Safety Standards for Protection against Ionizing Radiation and for the Safety of Radiation Sources. The Standards deal specifically with the occupational exposure conditions of female workers by requiring, inter alia, that a female worker should, on becoming aware that she is pregnant, notify her employer in order that her working conditions may be modified, if necessary. This notification shall not be considered a reason to exclude her from work; however, her working conditions, with respect to occupational exposure shall be adapted with a view to ensuring that her embryo or foetus be afforded the same broad level of protection as required for members of the public.

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