IAEA
International Atomic Energy Agency
Atoms for Peace and Development

Regional Training Course on Application of Radiotracer Methods applied in Metallurgical Processes for Delicit Metals Recovery Development of Specific Methods for Deficit Metals Recovery

Hosted by

The Government of Poland

through the

Institute of Nuclear Chemistry and Technology

Warsaw, Poland

7 to 11 July 2025

Ref. No.: TN-RER1023-2500909

Information Sheet

Purpose

The purpose of the event is to train participants on radiotracer methods applied in metallurgical processes to evaluate residence time distribution, including experiments and modelling with intercomparison tests, to demonstrate the importance and requirements of Quality Assurance/Quality Control used methods for deficit metals recovery.

Working Language

The working language of the event will be English.

Deadline for Nominations

Nominations received after **20 May 2025** will not be considered.

Project Background

To harmonise and strengthen Member States' capabilities for radiotracers and sealed source technologies as applied in the efficient and sustainable management of natural resources and environment preservation and remediation.

Scope and Nature

The course will increase the knowledge of both theoretical and practical ways of application of radiation technology in development of specific methods for deficit metals recovery, including radiotracers and nucleonic control system. Local and international experts will deliver lectures and present studies cases of the system (Data Acquisition System) used for determining the residence time distribution of the radiotracer in metallurgical process units and the leakages test method used for industrial expertise. The results will be presented, analysed and discussed during the workshop. A roundtable discussion will be organized to find the efficient way of strengthening the application of this technique among the RER1023 participating Member States.

The course will include:
- Lectures on radiotracer methods applied in metallurgical processes to evaluate residence time distribution;
- Demonstration of instruments for radiotracer applications including experiments and modelling in metallurgical processes and leakages testing methods;
- Intercomparison tests to demonstrate the importance and requirements of QA/QC used methods;
- Presentation of results and discussions of results.

Participation

The event is open to 20 participants of the Project RER1023 (including 5 local participants) from Member States. Each Member State may submit a maximum of 2 nominations.

Participants' Qualifications and Experience

Participants should be from national nuclear research institutions considered as users and/or potential users of the technique for industrial applications of radiation technology. They should have a university degree in physics, nuclear physics or in chemical, process, mechanical and metallurgical engineering.

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 (EVT2500909) 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 course, 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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