IAEA
International Atomic Energy Agency
Atoms for Peace and Development

Regional Workshop on Radiometric Methods for the Evaluation of Sediment Dynamics

Hosted by

The Government of Greece

through the

Hellenic Centre for Marine Research

Athens, Greece

8 to 12 November 2021

Ref. No.: ME RER1020-2101772

Information Sheet

Purpose

The purpose of the event is to introduce and discuss gamma spectrometric mapping of natural radiation of beach sediments for sediment dynamics evaluation.

Working Language(s)

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

Deadline for Nominations

Nominations received after **10 September 2021** will not be considered.

Project Background

Radiotracers and sealed sources techniques have become an important non-destructive and non-invasive tool for diagnosis of process malfunctioning and efficiency optimization. The technologies have been developed and established in some European Member States (MSs). Tracers are used as a service activity in their local industries. The demand for the technology has found to be steadily increasing among the MSs with local capacity and capability. Radiotracer technology can play a cardinal role in assisting engineers in decision making. Although conventional methods are available, but radioisotope technology is more economically in such that measurements can be carried out in-situ without disruption of the process or sampling. Information of a process can be obtained in a relatively short period of time where after process engineer will be in the position to take action especially when data treatment and interpretation are pushed until Residence Time Distribution (RTD) modelling in order to be integrated with process engineering models. In this case tracer experiments will be able to provide very powerful information. Thus, data treatment, interpretation and modelling are of a very high importance to strengthen the development of the technology and to increase its use in various industries.

Scope and Nature

The workshop will provide the basic theory and practical field application of natural radioactivity of sediments as tracer for sediment dynamics evaluation in littoral. Local and international experts will deliver lectures and present case studies to introduce the basic theory and practical aspects of the methodology and technology. The related hardware and software will also be discussed. The technique will be demonstrated in mapping the natural gamma radiation of beach sediments in selected beach of coastal area of Greece. The results of field demonstrations will be analysed and discussed in detail. The roundtable discussion will be organized to find the efficient way of promoting the technique among RER1020 participating Member States.

Participation

This is open to up to 15 participants from member states participating in the project RER1020.

Participants' Qualifications and Experience

Participants should be from national nuclear or maritime research institutions considered as potential user of the technique for coastal area maintenance and protection. The participants should have a university degree in geophysics, geology, hydrology, physics, nuclear physics and 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. Search for the relevant technical cooperation event (EVT2101772) 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 meeting 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 American Express, or a travel grant, 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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