



Regional Training Course on the Use of Fallout Radionuclides, Compound Specific Stable Isotope and Water Isotope Techniques for Erosion and Sedimentation Assessment in Watersheds and Water Reservoirs

Hosted by

The Government of Chile

through the

Universidad Austral de Chile and Laboratorio de Química Orgánica y Forénsica Ambiental

Valdivia, Chile

4 to 15 November 2019

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Information Sheet

Purpose

The purpose of the event is to train participants on isotopic techniques for better understanding of sediment dynamics and initiate the interpretation of the results obtained by national case studies.

Working Language(s)

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

Deadline for Nominations

Nominations received after 6 September 2019 will not be considered.

Project Background

The overall objective of project is to provide a technical framework for monitoring continental aquatic systems in Latin American and the Caribbean and to provide Government Authorities with an early warning tool for water resource management that will facilitate the visualization and utilization of the data generated from the project in decision making regarding soil and water resources (mainly surface runoff and soil erosion in watershed, pollution of water sources and sedimentation in water reservoirs) in each partner country.

Scope and Nature

The training programme has five main objectives:

- 1) Advanced training on the use of fallout radionuclides (Cs-137, Pb-210 and Be-7) for assessment of soil erosion with focus on its implementation in geographical conditions of Latin America (tropical, mountainous, semiarid and savanna and pampa).
- 2) Advanced training on the use of compound specific stable isotope (CSSI) technique for assessment of sediment sources in watershed focused to geographical conditions of Latin America and practical exercise of fatty acid extraction for CSSI analyses.
- 3) To provide advanced training on the use of water isotopes (O-18, H-2, H-3, noble gas isotopes) for assessment of water sources in the watersheds, their dynamics and impact on sedimentation and pollution in water reservoirs.
- 4) Review of the national case studies of project partners and preparing outlines for the interpretation of the collected data.
- 5) Preparing the outlines and reviewing the inputs for methodological guidelines on integrated use of nuclear techniques for soil and water management in watersheds and sedimentation in water reservoirs.

Participation

Participation will be open to two (2) participants from each participating country who meet the Participants Profile mentioned below. Please kindly inform of the order of priority of the nominations.

Participants' Qualifications and Experience

The participant should have university degree from earth sciences or agricultural sciences related to hydrological cycle in landscape with focus on soil and water management and conservation. Further they should be employees of scientific institutions such as universities and governmental research institutes (exceptionally private companies involved in management of water resources and hydropower are acceptable) and should have several years of experience in own research activities at the field of agricultural land management, forestry, soil science or hydrology and in use of nuclear techniques for environmental research. PhD degree, own publishing activities and experience with earlier IAEA activities are welcomed.

Application Procedure

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

1. Access the IAEA TALEO page (<https://iaea.taleo.net/careersection/ex/jobsearch.ftl>) and complete the Candidate Profile.
2. Be registered on the Nucleus page of the IAEA (<https://nucleus.iaea.org/>).
3. Through Nucleus, access the InTouch+ platform where the Profile is completed (My Profile tab) (<https://nucleus.iaea.org/Pages/InTouchPlus.aspx>).
NOTE: The email used for TALEO and Nucleus must be the same. If not, the candidate's profile will not appear complete.
4. On the InTouch + platform, under the 'My InTouch +' tab, the candidate needs to:
 - a. select the institute / organization that he/she works at / represents ('My Institute' section);
 - b. click on the link called '**Refresh Personal History Form**' to update the system, *otherwise the nominations submitted will have these fields empty and it will not be possible to evaluate them during the selection of candidates* ('IAEA Recruitment Platform' section).
NOTE: Once the above steps are finalized, the candidate's profile will appear as completed and he/she can apply for Technical Cooperation events.
5. In the InTouch+ platform (<https://intouchplus.iaea.org>), in the 'Applications' tab, search by the event number provided in the invitation.

The help for each step is located at the top of the page. For additional help on how to register, create a profile and apply for an event, please refer to the online guide and training videos available under the following links: [how-to guide](#) and [training videos](#). Any issues or queries related to the new system can be addressed to InTouchPlus.Contact-Point@iaea.org or TC-AIPS-PL4.Contact-point@iaea.org.

Should this not be possible, applicants may download the Nomination Form for the TN from the IAEA website <https://www.iaea.org/services/technical-cooperation-programme/how-to-participate>.

Applications should contain sufficient information to establish that the nominees have the required qualifications. Please note that the information regarding LANGUAGE SKILLS, EDUCATION AND WORK EXPERIENCE is exported from TALEO. If an applicant's profile in TALEO is not updated, the information in INTOUCH+ for these sections appears as empty and the candidates cannot be evaluated. Completed applications need to be endorsed by the relevant national authority, i.e. the National Liaison Office and submitted through the established official channels.

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.

IAEA Contacts

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