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International Atomic Energy Agency

Agence internationale de l'énergie atomique

Международное агентство по атомной энергии

Organismo Internacional de Energía Atómica

National Liaison Officer

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In reply please refer to: C1-RER/9/121/9013

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2015-02-13

Subject: Invitation to a Regional Workshop on Groundwater Hydrology and Remediation, Osh, Kyrgyzstan, 11-15 May 2015

Dear National Liaison Officer,

I am pleased to invite you to send nominations of suitable candidates to participate in the above-mentioned workshop under the framework of TC Project RER/9/121 – Supporting Environmental Remediation Programmes. The purpose of the workshop and related information are outlined in the attached Prospectus.

For candidates who are selected by the IAEA, the IAEA will cover the cost of return international travel from the home country to Osh, Kyrgyzstan and provide Daily Subsistence Allowance (DSA) for the duration of the workshop in line with IAEA rules and procedures.

Please submit nominations to the IAEA online through the Technical Cooperation Department's InTouch system (<http://intouch.iaea.org>). Only if this is not possible, nominations may be submitted on the Nomination Form for Meeting/Workshop available on the IAEA website: <http://www.iaea.org/technicalcooperation/How-to-take-part/In-meetings-WS/index.html>. Completed forms should be endorsed by relevant national authorities and sent to the Programme Management Officer for this project, Mr Andrei Chupov (IAEA Official Fax: +43-1-26007 or E-Mail Official.Mail@iaea.org), through the official channels, i.e. the designated National Liaison Office for IAEA matters, not later than 20 March 2015.

Yours sincerely,

Manase Peter Salema

Director

Division for Europe

Department of Technical Cooperation

Enclosure: Prospectus

International Atomic Energy Agency

Regional Workshop on Groundwater Hydrology and Remediation

PROSPECTUS

- Project Number & Title:** RER9121 - "Supporting Environmental Remediation Programmes"
- Place (City, Country):** Osh, Kyrgyzstan
- Dates:** 11 to 15 May 2015
- Deadline for Nominations:** **20 March 2015**
- Organizers:** The International Atomic Energy Agency (IAEA) in collaboration with the Government of the Kyrgyzstan through the Agency for Managing Tailing under the Ministry of Emergency Situation of the Kyrgyz Republic
- Host Country Organizer:** Mr Kanybek Kydyrov,
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- Language:** English/Russian
- Purpose:** The purpose of this workshop includes exposing participants to the most relevant methodologies used in the remediation of groundwater contaminated by radioactive species, teaching them how to collect hydrogeochemical data and select and design remediation systems based on hydrogeological, geochemical and biological effects. In addition, participants will be able to see the use of computers in the simulation of remediation hydrology, groundwater pathways, capture zones, mass transport, natural attenuation, and alternative remediation designs.
- Expected Output(s):** The workshop is intended to allow participants to acquire a comprehensive working knowledge of the concepts, principles and professional practices underlying groundwater remediation.
- Scope and Nature:** The workshop scope will cover practical remediation strategies and options, the geological and hydrochemical factors applicable to remedial designs for cleaning up groundwater, field methods to fully characterize aquifers, source zones and plumes to allow selection and design of effective remedial measures and set achievable clean-up levels, selection of remediation systems based on variable hydrogeology, life cycle design, and monitored natural attenuation for dissolved phase and strategic approach to cost effective remedial. Hands-on exercises with computer simulations of flow and mass transport for applications in remediation strategies, design and field investigations will also be covered.

Background Information: A large number of radiologically contaminated sites exist in Europe, which could impact the health of the people and environment. As noted at the IAEA conference on remediation (Astana, 2009), many Member States have an urgent need to receive adequate support (e.g., workshop/training) in various remediation aspects.

IAEA technical cooperation project RER/9/121 “Supporting Remediation in European Member States” consists of a series of interconnected workshop/training events, which will progressively lead the Member States’ participants to develop/increase their knowledge of remediation elements. Each workshop/training event will build on the previous one, leading to a holistic view of remediation. With the present workshop the participants are expected to gain the necessary insight on the elements that make part of a remediation plan.

Groundwater contamination is an issue of immense relevance. In some countries strict regulations to protect groundwater quality and to clean up currently polluted aquifers have been passed. Contamination of groundwater by radioactive species can derive from different nuclear activities (from defence and commercial programmes nature), uranium production and operation of NORM industries. Waste disposed in the past in the sub-surface without proper precautions can also be included in the potential sources of groundwater contamination. The magnitude and extent of the problem in some of the IAEA Member States is huge and costs associated with the remediation of these sites can be extremely high.

Participation: The workshop is open to 25 participants from the IAEA Member States participating in the technical cooperation project RER/9/121, in particular: Azerbaijan, Belarus, Bulgaria, Croatia, Greece, Hungary, Kazakhstan, Kyrgyzstan, Latvia, Lithuania, The Former Yugoslav Republic of Macedonia, Poland, Romania, Russian Federation, Serbia, Slovakia, Tajikistan, Ukraine and Uzbekistan.

Participants will be selected based upon their qualifications and using a competitive selection basis.

The participants should be regulators, project managers, planners and other staff involved in planning and managing decision-making in organizations working on, or eventually to be designated as responsible for, remediation projects (e.g., state or national resource management agencies, operators of facilities or sites needing or undergoing large scale clean-up actions, regulatory bodies and national research organizations).

Participants’ Qualifications: Participants should have the appropriate scientific and/or technical background that will allow them to follow and absorb the various elements that compose the workshop.

Participants shall be nominated by the competent national authority of the Member State and, most specifically, by the Member States’ official counterpart for the project.

Nomination Procedure: Please submit nominations to the IAEA online through the Technical Cooperation Department’s InTouch system (<http://intouch.iaea.org>). Only if this is not possible, nominations may be submitted on the Nomination Form for Meeting/Workshop available on the IAEA website: <http://www.iaea.org/technicalcooperation/How-to-take-part/In-meetings-WS/index.html>. Completed forms should be endorsed by relevant national authorities and sent to the Programme Management Officer for this project, Mr Andrei Chupov (IAEA Official Fax: +43-1-26007 or E-Mail Official.Mail@iaea.org), through the official channels, i.e. the designated National Liaison Office for IAEA matters, not later than **20 March 2015**.

Administrative and Financial Arrangements: Nominating Governments will be informed in due course of the names of the candidates who have been selected and will, at that time, be given full details of the procedures to be followed with regard to administrative and financial matters.

Selected participants from countries eligible to receive technical assistance will be provided with a round trip economy class air ticket from their home countries to Osh, Kyrgyzstan and a Daily Subsistence Allowance (DSA) at the prevailing UN Rate. Shipment of accumulated workshop materials to the participants' home countries is not the responsibility of the IAEA.

The organizers of the workshop 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 workshop, and it is clearly understood that each Government, in nominating participants, undertakes responsibility for such coverage. Governments would be well advised to take out insurance against these risks.