



Atoms for Peace

الوكالة الدولية للطاقة الذرية
国际原子能机构
International Atomic Energy Agency
Agence internationale de l'énergie atomique
Международное агентство по атомной энергии
Organismo Internacional de Energía Atómica

National Liaison Officers

Vienna International Centre, PO Box 100, 1400 Vienna, Austria
Phone: (+43 1) 2600 • Fax: (+43 1) 26007
Email: Official.Mail@iaea.org • Internet: <http://www.iaea.org>

In reply please refer to: C1-RER/9/133/9001/01
Dial directly to extension: (+43 1) 2600-22329

2016-05-24

Subject: Invitation to a Regional Workshop on Methods and Tools for Natural Hazard Assessment and Structural Analysis of Nuclear Facilities, Vienna, Austria, 27-29 July 2016

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/9/133 – Strengthening Capacity for Harmonized Risk Assessment of Nuclear Facilities and Natural Hazards. 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 Vienna, Austria 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, Alessia Rodriguez Y Baena (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 **13 June 2016**.

Yours sincerely,

Martin Krause
Director
Division for Europe
Department of Technical Cooperation

Enclosure: Prospectus

cc: Yoshimitsu Fukushima

International Atomic Energy Agency

Regional Workshop on Methods and Tools for Natural Hazard Assessment and Structural Analysis of Nuclear Facilities

PROSPECTUS

- Project Number & Title:** RER/9/133: Strengthening Capacity for Harmonized Risk Assessment of Nuclear Facilities and Natural Hazards
- Place (City, Country):** Vienna, Austria
- Dates:** 27 – 29 July 2016
- Deadline for Nominations:** 13 June 2016
- Organizers:** The International Atomic Energy Agency in cooperation with the Government of Austria.
- Host Country Organizer:** Mr Yoshimitsu Fukushima
International Seismic Safety Centre IAEA Division of Division Of Nuclear Installation Safety
Wagramerstrasse 5, P.O. Box 100
A-1400 Vienna, AUSTRIA
Tel: +43.1.2600. 22064; Fax: +43.1.26007
E-Mail: S.Y.Fukushima@iaea.org
- Language:** The Workshop will be held in English.
- Purpose:** The purpose of the Workshop to facilitate the exchange of information and technical knowledge regarding Hazard Assessment (HA) and Structural Analysis (SA) within professional community, and among specialists from the TC Europe Region.
- Expected Output(s):** The expected outputs of the Workshop are:
- Workshop report containing i) an overview of Member States Methods and Tools for Assessment of Natural Hazard for Nuclear Facilities; ii) State of practice regarding Structural Analysis of Nuclear Facilities including impact of natural hazards; iii) review of the existing national guides and standards covering natural hazards assessment and structural analysis for Nuclear Facilities.
 - Knowledge of participants exchanged as per modern approaches and tools for natural hazards assessment and structural analysis.

- Consolidated 2016-2017 work plan of project RER/9/133, based on the feedback of participants and with emphasis on planned regional training events.

Scope and Nature:

The Workshop will consist of presentations and group discussions covering topics related to the harmonization of approaches and tools for natural hazards assessment and structural analysis needed for safety assessment of Nuclear Facilities against natural hazards, and their subsequent implementation in participating Member States.

Participants are kindly requested to prepare 20 minutes PowerPoint presentations describing their own experience in hazards assessment, structural analysis and safety assessment of Nuclear Facilities against external natural hazards.

Background Information:

More attention needs to be given to the structural safety of currently existing nuclear facilities. There is a need for expertise to improve the resilience of nuclear facilities and critical infrastructure to multi-hazard phenomena, with a view to reducing physical vulnerabilities and social impacts. These require engineering and nonlinear analysis related to multi-hazard exposure. Recent disaster episodes, caused by natural hazards such as earthquakes affecting developed and developing countries alike, highlight the need for the scientific and technical community to develop new approaches and responses strategies to challenges they have not been previously exposed to, in order to improve the resilience of critical infrastructure and effectiveness of structural response. Highly trained professionals in the nuclear field, with specialized structural safety skills, need to assume challenging roles. Where there was no TC initiative for disaster risk assessment, management and mitigation, project RER/9/133 was designed to fill this gap and will help build capacity where needed, based on multidisciplinary synergies and exposure, and to facilitate bringing together civil engineering knowledge (structural, geotechnical, *etc.*) and statistical and probabilistic tools for understanding and managing extreme events. In terms of key partners, the project falls within the scope of the “Practical Arrangement” between IAEA and IUSS (Vienna, September 2013), which covers the establishment of education networks and encourages the development of a competent nuclear workforce. Within the aforementioned framework, and through this project, professionals from the TC Europe Region will have the opportunity to rely on the training expertise provided by the academia and applied research stakeholders, represented by Institute for Advanced Study (IUSS) Pavia and its Centre for Training and Research in Understanding and Managing Extremes (UME), as well as the EUCENTRE Foundation.

Specifically, this regional Workshop aims at facilitating the exchange of information and technical knowledge within the HA and SA professional community, and among specialists from the TC Europe Region.

Participation:

The Workshop is open to 25 participants from Member States in the TC Europe Region. Priority shall be given to qualified candidates from Member

States which have recently operated/are operating nuclear facilities or are actively planning to operate nuclear power plants and research reactors, namely: Armenia, Azerbaijan, Belarus, Bulgaria, Czech Republic, Hungary, Kazakhstan, Lithuania, Poland, Portugal, Romania, Russian Federation, Serbia, Slovakia, Slovenia, Turkey, Ukraine and Uzbekistan.

**Participants’
Qualifications:**

The participants should be professionals from utilities and regulatory bodies directly involved in activities related natural hazards assessment and safety evaluation of Nuclear Facilities against natural hazards in participating Member States.

**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, Ms Alessia Rodriguez y Baena (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 **13 June 2016**.

**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 Vienna, Austria, 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.