

International Atomic Energy Agency
Technical Cooperation Project
INT/4/142
“Promoting Technology Development and Application of
Future Nuclear Energy Systems in Developing Countries”

PROSPECTUS

- Title:** INPRO Dialogue Forum on Nuclear Energy Innovations
- Place:** Vienna International Center, Vienna, Austria
Boardroom A (M0237)
- Date:** 1– 4 February 2010
- Deadline for nominations:** 31 October 2009
- Organizers:** The International Atomic Energy Agency (IAEA)
- Languages:** English
- Target Countries:** Albania, Algeria, Angola, Argentina, Armenia, Australia, Azerbaijan, Bangladesh, Belarus, Belgium, Bolivia, Brazil, Bulgaria, Burkina Faso, Canada, Cameroon, Chile, China, Croatia, Czech Republic, Dominican Republic, Ecuador, Egypt, El Salvador, Estonia, Finland, France, Georgia, Germany, Ghana, Greece, Hungary, India, Indonesia, Israel, Italy, Japan, Jordan, Kazakhstan, Kenya, the Republic of Korea, Kuwait, Latvia, Libyan Arab Jamahiriya, Lithuania, Malaysia, Mexico, Mongolia, Morocco, Netherlands, Nigeria, Norway, Pakistan, Peru, Philippines, Poland, Qatar, Romania, Russian Federation, Saudi Arabia, Senegal, Slovakia, Slovenia, South Africa, Spain, Sudan, Sweden, Switzerland, Syrian Arab Republic, Tanzania, Thailand, Tunisia, Turkey, Uganda, Ukraine, United Arab Emirates, United Kingdom, United States of America, Uruguay, Venezuela, Vietnam, Yemen, and the European Commission
- Participation** Financial support for participants from developing countries will be limited to **one participant per Member State**. The participants from developed countries and from the countries which are not recipients of the IAEA Technical Cooperation (TC) assistance are kindly requested to attend the workshop on cost-free basis to the IAEA.
- Background:** Through the Technical Cooperation (TC) Programme and the International Project on Innovative Nuclear Reactors and Fuel Cycles (INPRO), the Agency seeks to bring together technology holders and technology users to discuss, debate and share information not only on desirable innovations, both technical and institutional, but also on national long-term nuclear planning strategies and approaches and, on the highest level, the global nuclear energy system.
- In an initial project on ‘Common User Considerations’ in a two-year activity (2007-2008) first insights have been gained, and the dialogue was deemed to be most valuable by all participants.
- A more structured dialogue on desirable nuclear innovations is to be established to maximise benefit for all stakeholders.
- The INPRO Dialogue Forum is a continuation, but in a broadened form, of the common user considerations activity. Its main value lies in the opportunity to discuss and *share information*, not in necessarily reaching consensus or adopting joint policies. Correspondingly, the main product of the INPRO Dialogue Forum will be *proceedings* that document positions, questions, progress in discussions.

Purpose: The purpose of the workshop is to address a first set of topical issues under the Dialogue Forum, namely:

1. Socio- and macroeconomic factors that influence decisions regarding deployment of nuclear systems (including, for example: impact on environment/climate, the behaviour of the national or local economy as a whole, psychological and 'quality of life' issues, perceptions, state-public relationships, and national economic development at large.)
2. Proven technology: technology which is provided in an innovative NPP system should be "proven" or "mature" before it is included in a proposed design. Normally, for technology to be considered mature, it must have been applied in a prototype article (a system, subsystem, or component), tested in a relevant or operational environment, and found to have performed adequately for the intended application for a reasonable length of time, or be fully licensed and operated by a host country before export to another country. This implies a need for a way to measure or evaluate maturity and for a process to ensure that only sufficiently mature technology is included by the technology holders in proposed plant designs.
3. Safety Approach(es) for Innovative Nuclear Systems: safety is an essential consideration for the overall assessment of a given INS. This initial discussion will focus on "generic" regional approaches to safety that could be the first step in the establishment of the following:
 - a) A process to assist technology users to perform independent assessments of the safety of innovative nuclear systems based on IAEA Safety Standards.
 - b) Approaches to national and/or regional arrangements to assist in the approach to safety guidelines and assessments for future reactor systems while taking full advantage of the experiences of technology holders and their extensive safety analysis database.

The workshop will be conducted in a cooperation between INPRO, the Planning and Economic Studies Section of the Department of Nuclear Energy (PESS), and the Division of Nuclear Installation Safety of the Department of Nuclear Safety and Security.

Participants' Qualifications and experience: The workshop is targeted to senior officials engaged or interested in establishing and conducting a dialogue between nuclear technology holders and users as part of the international discussion on nuclear issues, including planning for future nuclear energy systems.

The **Description of work** part of the nomination form should contain the justification of the role of the nominated participant in the country's envisaged engagement in the Dialogue Forum as part of the national strategy for nuclear energy.

Nature of the workshop: The workshop will provide an opportunity for enhanced communication between technology holders and users and will initiate discussions on three key topics.

Consensus is not expected but stated positions from all stakeholders will be documented as proceedings.

**IAEA Responsible
Officers:**

Workshop Directors:

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**Application
Procedure:**

Nominations should be submitted on the standard IAEA application form for meetings and workshops. The applications should be endorsed by the official channels (the Ministry of Foreign Affairs, the National Atomic Energy Authority or the office of the United Nations Development Programme). The completed application form should be returned through established official channel between the corresponding Member State and IAEA. Applications must be received by the International Atomic Energy Agency, Wagramer Strasse, 5, P.O. Box 100, A 1400, Vienna, not later than **31 October 2009**. Nominations received after that date or applications which have not been routed through one of the aforementioned cannot be considered. Advanced nominations by facsimile (+43-1-26007) or email to (Official.Mail@iaea.org) are welcome. The facsimile/e-mail should contain the following basic information about the candidate(s): name, age, sex, academic qualifications, and present position including exact nature of duties carried out, proficiency in English, and full working address (including telephone and fax numbers, and e-mail) to enable the IAEA to make preliminary evaluation and to correspond with the candidates.

**Administrative
and financial
arrangements:**

Nominating Governments will be informed in due course on the names of the selected candidates and at that time full details will be given on the procedures to be followed with regard to administrative and financial matters. During their attendance at the Workshop participants from developing countries, eligible to receive technical assistance, will be provided by the IAEA with a stipend sufficient to cover the cost of their accommodation, food, and minor incidental expenses. The IAEA will also provide the participants with a round-trip air ticket, economy/excursion class, from their home countries to Vienna, Austria and return. 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.