



INTERNATIONAL ATOMIC ENERGY AGENCY

TECHNICAL COOPERATION DEPARTMENT

Project INT/4/141: Status and Prospects of Development for and Applications
of Innovative Reactor Concepts for Developing Countries

PROSPECTUS FOR AN
INTERREGIONAL TRAINING COURSE ON

Physics and Applications of High Temperature Gas Cooled Reactors

3-7 July 2006

hosted by the
Abdus Salam International Centre for Theoretical Physics (ICTP)
Trieste, Italy

International Atomic Energy Agency
Technical Cooperation Interregional Project
INT/4/141
Status and Prospects of Development for and Applications of
Innovative Reactor Concepts for Developing Countries

PROSPECTUS

- TITLE:** Interregional Training Course on Physics and Applications of High Temperature Gas Cooled Reactors
- VENUE:** Abdus Salam International Centre for Theoretical Physics (ICTP), Trieste, Italy (Giambiagi Lecture Hall - Adriatico Guest House)
- DATES:** 3-7 July 2006
- ORGANIZERS:** Organized by the International Atomic Energy Agency in cooperation with ICTP
- DEADLINE FOR NOMINATIONS:** **21 April 2006**
- TARGET COUNTRIES:** Algeria, Argentina, Brazil, Chile, Egypt, India, Iran, Libya, Mexico, Morocco, Pakistan, Poland, Syria, Tunisia, Ukraine, and Vietnam
- PARTICIPATION:** The training course is open to a total of **30 participants** from developing countries eligible for receipt of assistance under the IAEA's programme of technical cooperation.
- LANGUAGE OF THE COURSE:** The training course will be held in English.
- PURPOSE OF THE COURSE:** The purpose of the training course is to review the status of High Temperature Gas Cooled Reactors (HTGRs). The following topics will be discussed:
1. Fundamentals of HTGR plant design
 2. Core physics and thermal-hydraulics
 3. Fuel design and qualification
 4. Safety analysis
 5. Process heat and waste transmutation applications
- QUALIFICATIONS:** Priority will be given to nuclear scientists, engineers and managers who show demonstrated activities in innovative nuclear power and or nuclear process heat applications and who have research interests in high temperature gas cooled reactor technology.

NATURE OF
THE COURSE:

The training course will consist of presentations provided by international experts, as well as discussions on the status of HTGR technology.

APPLICATION
PROCEDURE:

Nominations should be submitted on the standard IAEA application form for Training Course. Completed forms should be endorsed by and returned through the established official channels (the Ministry of Foreign Affairs, the National Atomic Energy Authority or the office of the United Nations Development Programme). They must be received by the International Atomic Energy Agency, P.O. Box 100, A-1400, Vienna, not later than **21 April 2006**. Nominations received after that date or applications, which have not been routed through one of the aforementioned channels, will not be considered.

Advance nominations by facsimile (+43-1-2600-29634) or e-mail (C.Potsch@iaea.org) are welcomed. The facsimile/e-mail should contain the following basic information about the candidate(s): name, age, sex, academic qualifications, 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 of the candidates.

ADMINISTRATIVE
AND FINANCIAL
ARRANGEMENTS:

Nominating Governments will be informed in due course of the names of the selected candidates and will at that time be given full details on the procedures to be followed with regard to administrative and financial matters.

During their attendance at the course, participants from countries eligible to receive technical assistance will be provided by the IAEA with a stipend sufficient to cover the cost of their accommodation, meals, 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 Trieste, Italy, and return. Shipment of accumulated course materials to the participants' home countries is not the responsibility of the IAEA.

The organizers of the course 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 nominating participants, undertakes responsibility for such coverage. Governments would be well advised to take out insurance against these risks.