



National Liaison Officer

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In reply please refer to: C7-RER-6.018-007 Dial directly
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2010-12-30

Subject: Invitation to a Regional Training Course on Dosimetry of Co-60 Beams and Quality Assurance
in Radiotherapy in Kharkiv, Ukraine, 6 - 10 April 2011

Dear National Liaison Officer,

I am pleased to invite you to send nominations of suitable candidates to participate in the above-mentioned training course under the framework of TC Project RER/6/018 - Strengthening Regional Capacity in Medical Radiation Physics (Phase II). The purpose of the training course and related information are outlined in the attached Prospectus.

For candidates that will be selected, the IAEA will cover the cost of return international travel from the home country to Kharkiv, Ukraine, and provide a stipend for the duration of the training course in line with Agency rules and procedures.

Please send duly completed Nomination Form for Training course (attached) by the latest 24 January 2011. Please note that nominations received after the closing date will not be considered.

The completed nomination forms should be sent to the Programme Management Officer for this project, Ms Sandra Steyskal, through IAEA Official Fax (+43-1-26007) or E-mail (Official.Mail@iaea.org).

Yours sincerely,

Manase Peter Salema
Director
Division for Europe
Department of Technical Cooperation

Enclosures: Prospectus
Nomination Form

International Atomic Energy Agency

Regional Training Course on Dosimetry of Co-60 Beams and Quality Assurance in Radiotherapy

PROSPECTUS

- Project Number & Title:** RER/6/018 - Strengthening Regional Capacity in Medical Radiation Physics, (Phase II)
- Place (City, Country):** Kharkiv, Ukraine
- Dates:** 6-10 April 2011
- Deadline for Nominations:** 24 January 2011
- Organizers:** The International Atomic Energy Agency (IAEA) in collaboration with the Government of Ukraine through the Grigorev Institute for Medical Radiology and the Kharkiv Regional Oncological Centre
- Host Country Organizer:** Prof Mykola Pylypenko
Grigorev Institute for Medical Radiology of the Academy of Medical Science
61024 Kharkiv
Pushkinskaya str. 82
Tel. +38 (057) 7000918, 7041068,
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e-mail: pilip_nichol@mail.ru; pilip_nichol@ukr.net
- Language:** Russian
- Purpose:** To provide training in clinical dosimetry of Co-60 units and related quality assurance to improve the quality of delivery of radiation therapy to cancer patients.
- Expected Output(s):** In-depth knowledge of the Co-60 dosimetry procedures as per IAEA TRS-398 code of practice and requirements of quality assurance (QA) for radiation therapy.
- Scope and Nature:** The training course will consist of deductive lectures and practical sessions by experts followed by discussions with the course participants. The course programme will include basic concepts of radiation therapy dosimetry and QA requirements as recommended by the IAEA:
- Basic radiation physics
 - Dosimetry principles, quantities and units
 - Radiation dosimeters
 - Radiation monitoring instruments

- Radiation treatment machines
- Photon beams
- Beam calibration
- Commissioning of Co-60 units
- Treatment time calculations
- Clinical treatment planning
- Quality Assurance of external radiotherapy
- Radiation protection and safety.

Practical sessions will include dosimetry measurements and calculation exercises such as the Co-60 beam calibration following the TRS-398 formalism, TLD irradiation for dosimetry audit, measurements needed for commissioning of Co-60 units and QA, as well as clinical treatment planning exercises and treatment time calculations.

The course will be conducted at two institutes. The lectures will be held at the Grigorev Institute for Medical Radiology during the first part of the week and thereafter the dosimetry exercises will be carried out at the Kharkiv Oncological Centre.

Background Information:

The main activity of the project RER/6/018 consists of supporting participation in regional training courses to train medical physicists from the European region and allow interaction and exchange of experience with other medical physicists on practices and lessons learned. Opportunities for training and ongoing professional growth can serve to increase motivation and professional qualification.

Participation:

The training course is open to 20 Russian speaking participants from all Member States participating in the Europe Technical Cooperation programme. In addition, the Host Country Organizer is entitled to nominate 20 participants from among its nationals to attend the course.

Participants' Qualifications:

The candidates should be clinical medical physicists working in a radiotherapy hospital equipped with Co-60 units. Fluency in written and spoken Russian is required.

Nomination Procedure:

Nominations should be submitted on the standard IAEA Application Form for Training Courses (available on the IAEA website: <http://www.iaea.org/>). Completed forms should be endorsed by relevant national authorities and returned to the Agency through the official channels, i.e. the designated National Liaison Office for IAEA Matters.

The completed nomination forms should be sent to the Programme Management Officer for this project, Ms. Sandra Steyskal, through IAEA Official Fax (+43-1-26007) or E-Mail (Official.Mail@iaea.org), not later than **24 January 2011**. Nominations received after this date or which have not been routed through the established official channels cannot be considered.

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 Kharkiv, Ukraine, and a stipend sufficient to cover the cost of their accommodation, food, and minor incidentals. Shipment of accumulated training course materials to the participants' home countries is not the responsibility of the IAEA.

The organizers of the training 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 training 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.