

NATO Advanced Training Course

New Techniques for the Detection of Nuclear and Radioactive Agents

Mugla, Turkey
May 26-30, 2008

Dear Colleagues,

The NATO Advanced Training Course/Workshop with the theme of "**New Techniques for the Detection of Nuclear and Radioactive Agents**" will be held at Mugla-Turkey during May 26-30, 2008. The course/workshop will focus on the most important areas of recent research, development and advanced studies, and to have a discussion media about the **newest** techniques, methods, materials, procedures and results of monitoring, measuring and analyzing of radioactive agents. The aim of the course/workshop is to provide for exchange of ideas and authoritative views by leading scientists and relevant qualified experts. Outstanding keynote speakers and well-known leading scientists and experts will be expected to share their knowledge with us.

The program of the workshop will be a combination of specialists talk, presentations of participant's papers and discussions. To ensure a productive course, attendance will be limited to about 35 participants who are active in their fields. Each potential participant should submit a position paper and about 30 minute oral presentation (.ppt) including discussion that exposes new problems, advocates specific solutions, or reports on actual experience. Participants will be invited based on the originality, technical merit and topical relevance of their submissions. The participants are not preferred to submit abbreviated versions of journal or conference papers.

We would like to sincerely ask you to distribute this information to your colleagues or to who may be interested to attend the workshop-course. Topics of interest and required input from participants are denoted below.

The candidates have to send their CVs covering their experiences and publications in relevant topics until 13 February 2008 to nato.atc@mu.edu.tr. Applications will be considered by the Organizing Committee and only one or two participant from your country can be sponsored.

The Organizing Committee will be able to cover accommodation expenses and provide meals during the course/workshop. A limited amount of travel grants can be given to a limited number of participants from developing countries. The Organizing Committee informs all participants that NATO does not take out any health or accident insurance for their participation in the ATC; such insurance is an individual responsibility.

Director from NATO country

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Director from PARTNER country

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Topics of interest include:

- Improving the newest advanced ways of detecting (identification and characterization) of radioactive agents, ie; Radioactive materials, Nuclear materials, Devices.
"Radioactive material" means nuclear material and other radioactive substances which contain nuclides which undergo spontaneous disintegration (a process accompanied by emission of one or more types of ionizing radiation, such as alpha-, beta-, neutron particles and gamma rays) and which may, owing to their radiological or fissile properties, cause death, serious bodily injury or substantial damage to property or to the environment.
"Nuclear material" means plutonium, except that with isotopic concentration exceeding 80 per cent in plutonium-238; uranium-233; uranium enriched in the isotopes 235 or 233; uranium containing the mixture of isotopes as occurring in nature other than in the form of ore or ore residue; or any material containing one or more of the foregoing;
"Device" means; any nuclear explosive device or any radioactive material dispersal or radiation-emitting device which may, owing to its radiological properties, cause death, serious bodily injury or substantial damage to property or the environment.
- Monitoring of environmental radioactivity pollution by new techniques, methods, materials, procedures.
- Localization of radioactive sources; sampling, calibrations and analysis the data.
- Detection system, technology and response methodologies,
- Environmental problems caused by past or present military activities.
- Undisclosed radioactive materials, uranium (and daughters) measurements.
- Nuclear smuggling, smuggling of fissile and radioactive materials
- Radioactive and nuclear agents in the environment and smuggled radioactivity.
- Covert nuclear proliferation problems.
- Early Warning Environmental Radiation Monitoring System (EWERMS), recent developments and advanced computer technologies

The candidates are supposed to complete the following information and send to:

nato.atc@mu.edu.tr

Last and First Name	
Title	
Affiliation	
Address, City, Postal code, Country	
E-mail	
Phone	
Fax	
Participant Profile:	
Main area	
Experiences in relevant topics	
Publications in relevant topics	