





X-ray Emission Techniques for Forensic Applications

28 May - 1 June 2007

ICTP, Miramare – Trieste, Italy

The Abdus Salam International Centre for Theoretical Physics (ICTP, Trieste, Italy), in cooperation with the International Atomic Energy Agency (IAEA, Vienna, Austria) is organizing a workshop on "X-ray Emission Techniques for Forensic Applications" to be held at ICTP in Trieste from 28 May to 1 June 2007.

The workshop constitutes a unique opportunity for scientists to acquire up-to-date knowledge and experience on forensic applications of X-ray emission techniques such as XRF, PIXE, SEM, and EPMA. Recently introduced X-ray micro-beam and micro-tomography techniques extend considerably applicability range and provide comprehensive characterization of the objects relevant to forensic science. The Workshop will cover current status and progress in instrumentation and analytical methodologies for forensic applications including integration of various techniques and Quality Assurance aspects. As a spin off for the recent developments in this area, the new applications in other fields such as environmental pollution monitoring and in-situ characterization of various materials are also possible. *Training Sessions* will be organized at the ICTP Mlab with state of the art x-ray instrumentation provided by the IAEA Laboratories.

Scientists from all countries that are members of the United Nations, UNESCO or IAEA may attend the Workshop. They should hold an advanced degree in nuclear physics, analytical chemistry or related subjects, and preferably possess several years' professional experience in nuclear analytical techniques with a special emphasis on X-ray emission techniques. Students will also be given the opportunity to give a short presentation of their own technical work at the workshop. Although the main purpose of ICTP and IAEA is to help scientists from developing nations through a programme of training activities within a framework of international cooperation, applicants from developed countries are also welcome to attend. As this activity will be conducted in English, participants must have an adequate working knowledge of this language.

As a rule, travel and subsistence expenses for participants should be borne by their home institutions. However, limited funds will be available to support **some** participants from developing countries. Such financial support will be available only to those who attend the entire activity. Thus, every effort should be made by candidates to secure support for their fare from their home countries. No registration fee is associated with attendance at the Workshop.

Application forms for the Workshop can be found on the Web server of ICTP at: http://cdsagenda5.ictp.trieste.it/full_display.php?smr=0&ida=a06198

Background information on the IAEA Department of Sciences and Applications is available from: http://www-naweb.iaea.org/na/index.html

The closing date for receipt of applications for participation is 12 February 2007.

Those wishing to participate should <u>fully complete and sign</u> the "Request for Participation" form available from the ICTP WWW server and send by post or fax to:

X-ray Emission Techniques for Forensic Applications

(c/o Elizabeth Brancaccio) the Abdus Salam International Centre for Theoretical Physics Strada Costiera 11 34014 Trieste, Italy

If sending an application by e-mail: smr1843@ictp.it (please save and send file attachments in PDF or RTF format)



in cooperation with

International Atomic Energy Agency

and

Sincrotrone Trieste

DIRECTORS

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Application deadline

12 February 2007

