COLLEGE ON MEDICAL PHYSICS

30 August - 22 September 2004

(Miramare - Trieste, Italy)

The Abdus Salam International Centre for Theoretical Physics (ICTP) will conduct a College on Medical Physics from 30 August (Monday) to 22 September (Wednesday), 2004. It will be directed by **Anna BENINI** (University Hospital of Copenhagen-Heart Center, Copenhagen, Denmark), **Perry SPRAWLS** (Emory University, Atlanta, U.S.A.) and **Slavik TABAKOV** (Kings College, London, U.K.). **Luciano BERTOCCHI** (University of Trieste & the Abdus Salam ICTP, Trieste, Italy) will act as Local Co-ordinator. The College will be followed by a Workshop on Medical Applications of Synchrotron Radiation, 23 to 25 September (Thursday to Saturday).

OBJECTIVE OF THE COLLEGE ON MEDICAL PHYSICS

The objective of the College on Medical Physics is to contribute to the development of competent medical physicists who can make direct contributions to the improvement of health care in their countries through better medical imaging diagnosis, and who can lead in the proper and safe applications of radiation for diagnostic imaging purposes. The emphasis of the College will be on developing the medical physicist as an *effective educator and trainer*. This is because the greatest impact and contribution to world health is achieved by developing a complete medical staff with the appropriate knowledge to effectively utilize medical imaging technology. The medical physicist, as an educator, is the key to this achievement.

PARTICIPATION

Physicists and scientists with significant responsibility for medical physics education and training from all countries that are members of the UN, UNESCO or IAEA can attend the College on Medical Physics. Participants should hold a university degree in physics, engineering, medical physics or related subjects and have several years of professional experience related to medical physics and/or clinical medical imaging. They are expected to apply acquired knowledge through education and training programme development, teaching and working to improve medical imaging in their home countries. The main purpose of the Centre is to help experienced scientists from developing countries through a programme of training activities within a framework of international cooperation. As this activity will be conducted in English, participants should have an adequate working knowledge of that language.

As a rule, travel and subsistence expenses of the participants should be borne by the home institutions. Limited funds are available for some scientists from developing countries. As scarcity of funds allows travel to be granted only in a few exceptional cases, every effort should be made by candidates to secure support for their fare (or at least half-fare) from their home country. It is stressed that participants whose travel expenses are paid by the ICTP are required to attend the entire College and the subsequent Workshop. There is no registration fee for this activity. A separate announcement will be issued for the Workshop

The closing date for requesting participation is **15 APRIL 2004.** The request for participation form, to be found at the back of the Bulletin, (also obtainable from the ICTP WWW Server: http://agenda.ictp.trieste.it/smr.php?1577), should be completed, signed and sent to:

the Abdus Salam ICTP
(SMR.1577)
Strada Costiera 11
I-34014 Trieste, Italy

If sending your applications by e-mail, please save and send file attachments in RFT format to:
smr1577@ictp.trieste.it

The decision of the Organizers will be communicated to all candidates as soon as possible.

Telephone: +39 040 2240541
E-mail: smr1577@ictp.trieste.it
Telefax: +39 040 2240531
www.server: http://www.ictp.trieste.it/

The Programme of the College will consist of lectures, simulations,and practical experiences on the imaging modalities of:

- ***Radiography***
- ***Mammography***
- ***Fluoroscopy***
- ***Computed Tomography***
- ***Ultrasound***
- ***Magnetic Resonance Imaging***
- ***Radionuclide Imaging***

For each of these modalities, there will be educational activities covering:

- ***Characteristics of images***
- ***Physics of image formation***
- ***Imaging equipment and technology***
- ***Evaluation of image quality and equipment performance***
- ***Optimization of imaging procedures***
- ***Radiation exposure and dose management***

DEADLINE:

15 APRIL 2004