



# ICTP Regional College on Medical Physics - 2007

Radiological Physics & Advisory Division  
Bhabha Atomic Research Centre,  
CT&CRS, Anushaktinagar, Mumbai - 400 094, India

12 - 23 November 2007



Association of Medical  
Physicists of India



American Association of  
Physicists in Medicine

[www.cmpindia2007.org](http://www.cmpindia2007.org)

## College on Medical Physics

It is our great pleasure to announce the organization of the ICTP Regional College on Medical Physics-2007 at BARC, Mumbai, India in association with AAPM and AMPI during Nov. 12 - 23, 2007.

The field of medical imaging and radiotherapy has witnessed a rapid development and increasing use of technology in recent years for the diagnosis and treatment of diseases, especially cancer. The effective use of modern medical technology for diagnostic and therapeutic purposes requires the availability of well educated, trained and experienced medical physicists. Updating the knowledge and skill of trained medical physicists is an important requirement for the optimum and safe use of the newer technologies.

The ICTP Regional College is being organized with the objective to update and refresh the knowledge and skill of qualified medical physicists who can make direct contributions to the improvement of health care in their institutions through optimized medical imaging diagnosis and radiation therapy procedures. This will be achieved by providing participants with education, training, and resources to enhance their effectiveness as medical physics educators as well as a clinical medical physicist. The college will consist of lectures and interactive discussions among the faculties and participants to have better understanding of the subject.

Bhabha Atomic Research Centre, the host institute, is a premier multi-disciplinary Nuclear Research Centre of India having excellent infrastructure for advanced Research and Development with expertise covering the entire spectrum of Nuclear Science and Engineering and related areas including medical physics. Mumbai is the commercial capital and heritage of Indian culture. The weather in Mumbai is normally pleasant in the month of November and participants would enjoy visiting this great city.

We invite eligible candidates to send applications to participate in this college and get benefited in terms of quality and quantity of knowledge to be applied in day to day application of medical physics and technology.

(H. S. Kushwaha)  
General Director

(S. Kannan)  
Organizing Director

(S. D. Sharma)  
Academic Director

## COURSE TOPICS AND FACULTY

<b>The Physics and Technology of Medical Imaging</b>  November 12 -16, 2007	<b>The Physics and Technology of Radiation Therapy</b>  November 19 - 23, 2007
<ul style="list-style-type: none"> <li>• General Imaging Physics Review</li> <li>• Radiography and Mammography</li> <li>• Fluoroscopy</li> <li>• Computed Tomography</li> <li>• Ultrasound</li> <li>• Magnetic Resonance Imaging</li> <li>• Radionuclide Imaging (Nuclear Medicine)</li> <li>• Role of imaging equipment in radiotherapy treatment planning</li> </ul>	<ul style="list-style-type: none"> <li>• Construction and working of various beam and brachytherapy equipment</li> <li>• Dosimetry methods used in beam therapy and brachytherapy</li> <li>• Data acquisition and commissioning of radiotherapy equipments</li> <li>• Physics and dosimetry of 3-D Conformal Radiotherapy, Intensity Modulated Radiotherapy and Image Guided Radiotherapy</li> <li>• Stereotactic Radiosurgery and Stereotactic Radiotherapy</li> <li>• Total and hemi-body irradiation</li> <li>• Physics and dosimetry of interstitial implants and ocular brachy therapy</li> </ul>
<b>Faculty</b>  Prof. Perry Sprawls, USA  Dr. Pratik Kumar, AIIMS, India  Dr. Beth A. Schueler, USA  Prof G. S. Pant, AIIMS, India,  Dr. Shobha Jayaprakash, India  Dr. Pankaj Tandon, BARC, India	<b>Faculty</b>  Dr. S. D. Sharma, BARC, India  Dr. Howard Ira Amols, USA  Prof. Michael C. Schell, USA  Prof. Indra Das, USA  Prof. P. S. Negi, RGCI, India  Dr. D. D. Deshpande, TMH, India  Dr. B. Paul Ravindran, CMC, India  Shri A. M. Pendse, Mumbai, India

## Advisory Committee

Dr. Srikumar Banerjee, Director, BARC, Mumbai, India  
Prof. K. R. Srinivasan, Director, ICTP, Italy  
Shri S. K. Sharma, Chairman, AERB, Mumbai, India  
Shri H. S. Kushwaha, Director, HS&EG, BARC, Mumbai, India  
Prof. Ananthanarayanan, Deputy Director, DGHS, New Delhi, India  
Dr. (Ms) K. A. Dinshaw, Director, TMC, Mumbai, India  
Dr. A. K. Kohli, Chief Executive, BRIT, Mumbai, India  
Shri S. Kannan, Head, RPAD, BARC, Mumbai, India  
Shri S. P. Agarwal, Head, RSD, AERB, Mumbai, India  
Dr. P. G. G. Kurup, President, AMPI, Chennai, India

## Organizing Committee

General Director	:	Shri H. S. Kushwaha, Mumbai
Organizing Director	:	Shri S. Kannan, BARC, Mumbai
Academic Director - Imaging	:	Prof. Perry Sprawls, Atlanta, USA
Academic Co-Director - Imaging	:	Dr. Pratik Kumar, AIIMS, New Delhi
Academic Director - Therapy	:	Dr. S. D. Sharma, BARC, Mumbai
Academic Co-Director - Therapy	:	Dr. Howard Amols, NY, USA

## Local Arrangement Committee

Dr. S.D. Sharma	Dr. T. Palani Selvam	Dr. Pankaj Tandon
Shri Rajesh Kumar	Smt. Vandana S.	Dr. (Smt.) Biju K.
Smt. Mahua Banerjee	Shri Sridhar Sahoo	Shri R. S. Vishwakarma
Smt. Philomina Akhilesh	Shri Neeraj Dixit	Shri Ravi Chilkulwar
	Smt. Reena Sharma	

## Contact Information

### College on Medical Physics - 2007

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Anushaktinagar, Mumbai - 400094, India

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sdsbarac@gmail.com

## EXPECTED PARTICIPATION

30 qualified participants from India and 20 from neighbouring countries of India such as Bangladesh, Brunei, Indonesia, Iran, Kuwait, Malaysia, Myanmar, Nepal, Oman, Pakistan, Qatar, Saudi Arabia, Singapore, Sri Lanka, Thailand, UAE, Vietnam, Yemen, etc.

## GUIDELINES FOR REQUESTING PARTICIPATION

- Medical physics educators and clinical medical physicists of countries mentioned above may attend the College on Medical Physics.
- Participants should hold a university degree in physics, medical physics, or related subjects and have at least five years (3 years for Indian participants) of professional experience related to medical physics. They are expected to apply acquired knowledge through teaching and working to improve medical imaging/therapy in their home countries/ institutions.
- The main purpose of the program is to help experienced medical physicists from developing countries through a program 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.

**Application form is available at [www.cmpindia2007.org](http://www.cmpindia2007.org)**

## FINANCIAL SUPPORT

All participants will receive financial support to attend the college. Participants of countries other than India will get full financial support. Pre-paid apex economy class air tickets from the nearest airport at their place of residence to course venue will be provided. However, Indian participants may receive either full or partial financial support depending upon the availability of funds.

The host institution will provide local hospitality to all the participants.

## VISA & OTHER INFORMATION

Information on Visa for attending the college can be obtained from following website:

<http://meaindia.nic.in/index.htm>

Information about Mumbai City, its geographical location and climatic conditions, etc can be obtained from:

<http://www.mumbainet.com>

The closing date for requesting participation is **16th August 2007**. The completed application form should be sent at the following address. To avoid the late receipt, an advance copy of the completed application can also be sent through email attachment to **sdsharma\_barac@rediffmail.com; sdsbarac@gmail.com** .

### **ICTP Regional College on Medical Physics - 2007**

C/o Dr. Sunil Dutt Sharma  
Scientific officer (E)  
RP&AD, BARC  
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Mumbai - 400094, India

## SUMMARY OF IMPORTANT INFORMATION

College duration : 12 - 23 November 2007

Last date for receipt of application : 16 August 2007

Eligibility criteria for participants : 5 years experience in Medical Physics teaching or clinical practice (3 years for Indian participants).

College website : [www.cmpindia2007.org](http://www.cmpindia2007.org)