International Day of Medical Physics Celebration

Symposium on

“Radiation and Medical Physicist: Optimizing, Adapting and Personalizing Cancer Therapy”

Organized by Jaypee Hospital & Association of Medical Physicists of India (Northern Chapter)

Date: Saturday, 8 November, 2014
Venue: Auditorium, Jaypee Hospital, Noida
Welcome

International Organization for Medical Physics (IOMP) has announced 7th of November, birth anniversary of Marie Sklodowska Curie as International Day of Medical Physics (IDMP). We are pleased to announce that Department of Radiation Oncology in Jaypee Hospital, Noida in association with Association of Medical Physicists of India- Northern chapter (AMPI-NC) is celebrating International day of Medical Physics (IDMP) on 8th of November in order to commemorate birth anniversary of Madam Curie.

Medical Physics is the application of physics in medicine and being concerned with the use of physical principles and techniques in many aspects of the diagnosis and treatment of human disease. The year 1895 has regarded as a turning point in the medical history due to the physics discovery of X-rays by W.C.Roentgen and he is popularly known as Father of Radiology amongst the medical fraternity. Subsequently, Physics discoveries of radioactivity by Henri Becquerel in 1896 and Radium by Madam Curie in 1898, the use of radiation for human welfare has began about more than 100 years ago. Many of the greatest inventions in modern medicine were developed by physicists who imported technologies such as X-rays, CT, MRI, ultrasound, particle accelerators and radioisotopes into the medical domain. The medical physicists help translate the science of radiation physics into the clinical diagnosis and treatment. Although Medical physics is a mature profession, it is still an expanding profession and its advances into medical practice are quite phenomenal.

Cancer is one of the major health problems globally and leads to tremendous burden on patients, families and societies. Radiation therapy is one of the principal modality for the treatment of cancer. The success or failure of radiation treatment mainly depends on the accuracy of the delivered dose of radiation and medical physicist plays vital role in implementing this task.

Due to recent technical advancements, the radiotherapy has advanced from empirical to evidence based practice and introduction of advanced technologies and techniques such as Intensity Modulated Radiotherapy (IMRT), Image Guided Radiotherapy (IGRT), Volumetric Modulated Arc Therapy (VMAT), Stereotactic Body Radiation Therapy (SBRT), Four-Dimensional Radiation Therapy (4-D RT), Adaptive Radiotherapy (ART), Particle radiotherapy and Biologically Conformal Radiation Therapy (BCRT) are paving the way towards improving quality and effective treatment for cancer.

A one day scientific event is organized to celebrate this occasion with scientific presentations and panel discussions. The event will start with a lecture on Madam Curie followed by various eminent speakers from all over the country. Jaypee is a brand new 500 bedded hospital on Greater Noida Expressway equipped with advanced Radiation Oncology facilities like Truebeam STx, with 120 HDMLC, 6-DoF couch and Real-time Position Management system.

The purpose of the celebration is to promote the visibility of Medical Physicists and their role in medicine and also to raise awareness to others on Medical Physics profession. We request your presence as delegates and faculties to felicitate this event. We would like you to join hands in supporting this event so that it becomes huge success.

Dr. Vikram Singh                 Dr. Sandeep Jain                Dr. Vasu Ganesan
Patron                           Organizing Chairman            Organizing Secretary