
PROFESSIONAL ACTIVITIES

“2ND INTERNATIONAL CONFERENCE ON MEDICAL PHYSICS IN RADIATION ONCOLOGY AND IMAGING (ICMPROI-2014)” IN DHAKA, BANGLADESH

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Abstract – Review of the 2nd International Conference on Medical Physics in Radiation Oncology and Imaging (ICMPROI-2014) in Dhaka, Bangladesh

Keywords – ICMPROI-2014, International conference; Dhaka, Bangladesh

I. INTRODUCTION

Medical Physics is still a new subject in Bangladesh. The importance of Medical Physics in Bangladesh is gaining day by day as cancer treatment is entering a new era from conventional therapy to conformal therapy. *Bangladesh Medical Physics Society (BMPS)* is a non-profit, non-trade registered organization primarily engaged in professional, educational and research activities, public awareness throughout Bangladesh in the field of medical physics including biomedical engineering, especially the application of physics in medical sciences. Also it organizes and or cooperates national, regional and international conferences, meetings or courses.

With that aim, after the 1st International Conference on Medical Physics in Radiation Oncology and Imaging (ICMPROI-2011) in 2011, BMPS has now organized the 2nd International Conference on Medical Physics in Radiation Oncology & Imaging (ICMPROI-2014) jointly with the Association of Medical Physicists of India (*AMPI*) and Nepalese Association of Medical Physicists (*NAMP*) from 20 to 22 August 2014 at the premier Postgraduate Medical Institution of the country Bangabandhu Sheikh Mujib Medical University

(BSMMU), Dhaka. The ICMPROI-2014 was supported this time by Asia-Oceania Federation of Organizations for Medical Physics (*AFOMP*), Middle East Federation of Organizations of Medical Physics (*MEFOMP*) and The Abdus Salam International Center for Theoretical Physics (*ICTP*). Prof. Dr. Golam Abu Zakaria, Chairmann and Chief Medical Physicist of Gummersbach Hospital, Academic Teaching Hospital of the University of Cologne, Germany and Dr. Hasin Anupama Azhari, Chairman Department of Medical Physics and Biomedical Engineering of Gono University, Bangladesh & Founder President of Bangladesh Medical Physics Society (BMPS) were the Organizing Chairperson and Organizing Secretary of this conference respectively.

II. PARTICIPANTS

During this conference more than 300 participants (40 foreign participants) including many eminent scientists, young researchers from universities, hospitals and industries of 24 countries (Algeria, Arab Emirates, Australia, Bangladesh, Belgium, Canada, China, Germany, India, Iran, Italy, Japan, Lebanon, Mexico, Nepal, Oman, Pakistan, Poland, Srilanka, South Korea, Sweden, Switzerland, United Kingdom, USA) exchange their knowledge, experience and buildup a network.

We were honoured to have with us President, Asia-Oceania Federation of Organizations for Medical Physics (*AFOMP*), *Prof. Dr. Yimin Hu*, President of Middle East Federation of Organizations of Medical Physics (*MEFOMP*), *Dr. Ibrahim Duhaini*, President of Polish Society of Medical Physics (*PSMP*), *Prof. Pawel*

Kokolowicz, President of Pakistan Organization of Medical Physics (**POMP**) Syed Mansoor Naqvi,



Fig: 1 Some of the Distinguished guests, ICMPROI 2104.

President of Nepalese Association of Medical Physicists (**NAMP**), *Mr. P. P. Chaurasia*, Secretary of Association of Medical Physicists of India (**AMPI**), *Dr. Challapalli Srinivas*, President of Bangladesh Medical Society (**BMPS**), *Mr. Kumaresh Chandra Paul* and International Atomic Energy Agency (**IAEA**) representative *Dr. Ahmed Meghzifene*.

III. SCIENTIFIC SESSIONS

According to the tradition of the previous ICMPROI meeting the scientific program of the ICMPROI-2014 was composed of Plenary Sessions, Invited Lectures, Oral, Poster and Vendor Presentations which have covered a wide range of issues related to Dosimetry, External Beam Therapy, Brachytherapy, Treatment Planning, Diagnostic Imaging, Nuclear Medicine, Quality Assurance, Radiobiology, Radiation Oncology, Radiation Safety, Biomedical Engineering and also on Education. 105 papers were presented in the different 18 scientific sessions. *On the 1st day* of the conference the Inaugural Ceremony was followed by scientific sessions, a cultural evening and grand dinner. *On the second day*, a special session and a workshop has included in the scientific sessions. *On the third day*, there were scientific sessions, poster sessions, award ceremony and finally the closing session.

IV. INAUGURAL CEREMONY

The inaugural ceremony of ICMPROI-2014 was held on Wednesday, 20 August 2014 in the Milon Hall of Bangabandhu Sheikh Mujib Medical University (BSMMU). *Hon'ble Minister, Ministry of Foreign Affairs*, Mr. Abul Hassan Mahmood Ali, M.P, was present to grace the occasion as the Chief Guest. *The Charge d' Affaires, German Embassy to Bangladesh*, Dr. Ferdinand von Weyhe and *Director General, Directorate General of Health Services (DGHS)* Prof. Deen Mohd. Noorul Huq were present in this occasion as Special Guests. *President, Asia-Oceania Federation of Organizations for Medical Physics (AFOMP)*, Prof. Dr. Yimin Hu and *President,*

Bangladesh Academy of Science & Vice-Chancellor, Gono Bishwabidyalay (University) Prof. Mesbahuddin Ahmad were present in the occasion as Guests of Honour and Prof. Dr. Golam Abu Zakaria was present as *Organizing Chairperson* of the conference. The session was presided over by *Vice Chancellor of BSMMU* and Patron of the Organizing Committee, ICMPROI-2014 Prof. Dr. Pran Gopal Datta (Fig:2).



Fig: 2 Inaugural Ceremony ICMPROI 2104.

V. CULTURAL EVENING (DAY-1):

A beautiful cultural evening was presented followed by Gala Dinner with Bangladeshi food and sweets. The cultural programme has represented the culture & custom of Bengali Nations by classical and traditional dances (Fig: 3).



Fig: 3 Cultural Evening ICMPROI 2104.

VI. SPECIAL SESSION (DAY-2):

In a special video session entitled 'Interdisciplinary workshop on treatment planning and dose delivery for radiation oncologists and medical physicists', the whole chain of the treatment planning and delivery for cancer patients was discussed with experts (Radio-oncologists and Medical Physicists) from different countries.

VII. POSTER SESSION (DAY-3):

33 posters were displayed. The committee of judges for poster session selected three posters for first, second and third prizes.

The First, Second and Third posters were “*Ranking of 3D Treatment Plan Variants Considering Physical and Biological Parameters in External Beam Therapy*” from **Bangladesh** by Kausar A., Azhari H.A., Chaudhuri S., Bhuiyan M.A., Zakaria G.A., “*Flexible Film Haptic Actuator Made with Cellulose Derivative for Surgical Simulation*” from **South Korea** by Mohiuddin M., Kafy A., Akhter A., Kim Huan-Chan, Jaehwan K. and “*Application of Diamond Detector in Radiation Beam Measurements in High Energy Linear Accelerator*” from **Oman** by Ravichandran R., Binukumar J.P., Al Amri I., Davis C.A. respectively.

VIII. WORKSHOP (DAY-2):

A workshop entitled ‘Advanced Dosimetry and Treatment Planning’ followed by a dinner was held at the evening of second day of the conference at Clinical Oncology Department in the Ahsania Mission Cancer and General Hospital (AMGCH).

IX. CLOSING AND AWARD CEREMONY (DAY-3):

Closing speech (Fig:4) was delivered by the Presidents and the Secretaries of different societies/organizations (AFOMP, MEFOMP, PSMP POMP, NAMP, AMPI, BMPS).



Fig: 4 Closing Ceremony ICMPROI-2014

In the award ceremony BMPS has recognized *Prof. Dr. Golam Abu Zakaria* as the founder of Medical Physics in Bangladesh and honored him as “Honorary Member” for his extraordinary contribution for the education and development of medical physics in Bangladesh. We have also honored Prof. Dr. Guenther Hartmann as “Honorary Member” for his great contribution for the medical physics education in Bangladesh (Fig:5).



Fig: 5 Award giving to Prof Zakaria from BMPS President and Prof Hartmann from BMPS Secretary.

Hopefully we expect more contributions and advise from international organizations like IAEA, IOMP, IFOMP, DGMP, AAPM and others for the coming 3rd ICMPROI-2017 in 2017.

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