

Affiliated Commission AC-4: Medical Physics [International Commission on Medical Physics Committee, IComMP]

Fridtjof Nüsslin, Chair

Report on Activities from Sept-2012 to Oct-2013

Background

The International Organization for Medical Physics (IOMP) represents over 18,000 medical physicists worldwide and has 83 national member organizations. The mission of IOMP is to advance medical physics practice worldwide by disseminating scientific and technical information, fostering the educational and professional development of medical physics and promoting the highest quality medical services for patients. Medical Physics is a branch of Applied Physics that applies scientific principles, methods and techniques in practice and research for the prevention, diagnosis and treatment of human diseases with the specific goal of improving human health and well-being. The profession Medical Physicist has been recognized by the International Labor Organization (ILO) in 2010 as a professional group listed in the ILO classification system ISCO-08 under '*Physicists and Astronomers*'. To strengthen Medical Physics science within IOMP and to link IOMP to IUPAP the International Commission on Medical Physics (IComMP) has been established which has been approved as IUPAP Affiliated Commission AC-4.

Membership of AC-4

IOMP Officers:

Kin Yin Cheung (President IOMP)
Slavik Tabakov (Vice-President)
Fridtjof Nüsslin (Past-President IOMP, IComMP/AC-4 Chair)
Madan Rehani (Secretary General IOMP)
Anchali Krisanachinda (Treasurer)

IOMP Committee Chairs

William Hendee (Science, SC)
John Damilakis (Education & Training, ETC)
Raymond Wu (Professional, PRC)
Tae Suk Suh (Publication, PC)

Associate Members from IUPAP Commissions:

Kenichi Yoshikawa (Chair C6, Biological Physics)
Paulo Murilo de Castro Oliveira (C13, Physics for Development)
Robert Lambourne (C14, Physics Education)

3 external scientists co-opted by IComMP:

to be elected at the AC 4 meeting 1st Sept 2013 in Brighton / UK

Activities

1. Mission and Objectives revised:

Objectives of AC 4:

- (1) to promote medical physics in its scientific and professional aspects in the physics community by interaction with the IUPAP commissions,
- (2) to specifically link to the C6 commission "Biological Physics",
- (3) to apply for support of the ICMP congress series,
- (4) to participate in the IUPAP Young Scientist Award program

Mission of AC 4:

The mission of IOMP is to advance medical physics practice worldwide by disseminating scientific and technical information, fostering the educational and professional development of medical physicists, and promoting the highest quality medical services for patients.

2. International Conference on Medical Physics (ICMP13):

This year the IOMP is celebrating its 50th anniversary. Therefore the ICMP is to be held close to its birth place Harrogate in the UK, from 1st – 4th Sept 2013 in Brighton (<http://www.icmp2013.org/>). The theme of the conference is NEW HORIZONS – GLOBAL AND SCIENTIFIC. The program covers the whole spectrum of subjects medical physicists and engineers are engaged in, it is a showcase of the innovative power of the medical physics community.

3. AC 4 meeting in Brighton:

The opportunity of the ICMP13 which is attended by a majority of commission members is used to hold a business meeting.

4. Joint Symposium AC 4 & C 6 in Brighton:

Incorporated in the program of the ICMP13 is a symposium “From Molecules to Life – Approaches of Biological Physics and Medical Physics in Cancer” which is jointly organized by the AC-4 (F.Nüsslin) and the C6 (Biological Physics, Chair Kenichi Yoshikawa). The objectives of the symposium are to understand the cross linking of biological & medical physics concepts applied in the diagnosis and treatment of cancer, and to explore perspectives of joint research activities in biological physics and medical physics.

5. Young Scientists Award 2012 & 2013

The winners of the IUPAP Young Scientist Award have been selected according to the rules of the IOMP Awards & Honors Committee (Chair Tomas Kron). The awardees are: Magdalena Stoeva (2012) and Ferdinand Schweser (2013). The citation for the certificate reads:

Dr. Magdalena Stoeva, Associate Professor in the Medical University, Plovdiv, Bulgaria, is awarded the IUPAP Young Scientist Medal for her significant contributions to international Medical Physics journals and Medical Physics e-Learning.

Dr. Ferdinand Schweser, Research Associate in the Medical Physics Group at the Friedrich Schiller University, Jena, Germany, is awarded the IUPAP Young Scientist Medal for his significant contributions to medical physics research into Magnetic Resonance Imaging.

6. International Day of Medical Physics:

With the intention to promote the medical physics in the public the *International Day of Medical Physics* has been created as an annual event which in remembrance of the birthday of Marie Sklodowska Curie (7.11.1867) is to be celebrated every year at the 7th November. The national and regional organizations of the IOMP are challenged to organize events, lectures, symposia mainly aiming to attract the science community at large and the public.

7. Medical Physics International – New web IOMP Journal:

IOMP is very pleased to announce release of the First issue of *Medical Physics International*, the official Journal of IOMP. This journal is web based and readers are referred to http://mpijournal.org/content_currentissue.aspx

Munich August 16, 2013
Fridtjof Nüsslin
Chair AC-4
Past-President IOMP