



International Union of Pure and Applied Physics (IUPAP) Affiliated Commission AC4: Medical Physics

Prof. John Damilakis, Chair

Report on Activities from September 2018 till July 2019

Background

Objectives of AC4:

- (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 IUPAP commissions
- (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.

Short Report´

- 1. International Day of Medical Physics (IDMP):** This year (2019) the theme is ‘It’s a Medical Physics World!’. IOMP announces all festivities related to IDMP at its specially made web site: [https:// www.iomp.org/idmp/](https://www.iomp.org/idmp/) Moreover, the IOMP has established the IDMP Award since 2017. This award recognises excellence in Medical Physics with a particular view of promoting medical physics to a larger audience and highlighting the contributions medical physicists make for patient care. The IDMP Award is linked to the International Day of Medical Physics (IDMP) from which it takes its name.
- 2. Education and Training of Medical Physicists:** The IOMP Education and Training Committee (ETC) has established the IOMP Accreditation Board to evaluate and accredit Medical Physics education and training events. Latest activity in this field was the accreditation of 3 Korean medical physics postgraduate courses organized by the Catholic University, KAIST and Yonsei University. IOMP accreditation team (Virginia Tsapaki, Arun Chougule and John Damilakis) reviewed submitted application forms, asked questions and missing information was received. On site visit was conducted in July 2019 to verify information provided in the application forms and assess parameters that cannot be adequately described in written form.

During the last years, the ETC offered several courses in connection with conferences and represented IOMP in many scientific meetings. A new activity ‘IOMP School’ was launched at the International Conference of Medical Physics in Bangkok (2016) and the 2nd edition was organized at AOCMP-AMPICON in Jaipur (2017). The 3rd edition of the ‘IOMP School’ was organized at the World Congress on Medical Physics and Biomedical Engineering in Prague (2018). The 4th edition is organized at the ICMP 2019 in Santiago, Chile. It has been decided that independent Schools (outside Conferences or Congresses), satellite courses, winter/summer schools will be organized in the future.

3. International Conference on Medical Physics (ICMP) 2019

The ICMP 2019 will be organized in Santiago, Chile, September 8-11. This scientific event and associated exhibition will be the foremost event showcasing developments in Medical Physics in 2019. The preliminary scientific program and other information has been uploaded on ICMP’s website <https://www.icmp2019.org>

4. **Important meetings:** An important meeting was organized by the WHO on non-ionizing radiation in Geneva in May 27-29, 2019. Meeting agenda included sessions on optical radiation, electromagnetic fields, medical exposures, risk communication etc. A session focused on medical exposures was organized on May 28. This part of the meeting included ‘setting the scene’ presentations and panel discussion. The IOMP participated in that session to discuss topics related to non-ionizing medical radiation protection and safety. The key messages of IOMP statements were organized around the following topics:

- 1) Short description of IOMP (membership, role, objectives, mission, vision)
- 2) IOMP’s expectations from the non-ionizing radiation BSS
- 3) Medical physicists’ role in the field of non-ionizing medical radiation protection and safety
- 4) IOMP’s role regarding non-ionizing BSS development and implementation

5. **IUPAP Congress Sponsoring Program:** The IUPAP funding has been used to organize a series of Conferences and Workshops on Medical Physics in developing countries, at the IOMP World Congresses and International Conferences on Medical Physics. This year, IUPAP supports the International Conference on Medical Physics (Santiago, Chile).

6. **IUPAP Young Scientist Medal 2016:** The IUPAP Young Scientist awardees for 2018 and 2019 (K. Men and M. Nakamura respectively) have been selected and will be presented at the 2019 ICMP in Santiago, Chile. Previous winners of this award have been G. Massillon, Mexico (2015), F. Hasford, Ghana (2016) and A. Nashirudeen Mumuni , Ghana (2017).

August 2019

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