



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

Prof. John Damilakis, Chair

Report on Activities from September 2019 till August 2020 and planned activities until October 2021

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 (2020) the theme is 'Medical Physicist as a Health Professional'. 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. The IDMP 2021 theme has not been decided yet.
- 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. Recent activities: a) a manual and application forms for accreditation of residency programs in Medical Physics was prepared by the IOMP accreditation board, b) accreditation of ICTP, Trieste was renewed for the Master in Medical Physics program. Moreover, the IOMP received an application from the Christian Medical College (CMC), Vellore, India for accreditation of its Masters in Medical Physics Programm. The IOMP accreditation board is currently assessing this application.

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 was organized at the ICMP 2019 in Santiago, Chile. During the last months, the IOMP School has organized webinars on a wide range of Medical Physics topics. Recorded webinars have been uploaded on IOMP’s website. More information can be found at <https://www.iomp.org/iomp-school-on-impw-2020-program/> and at <https://www.iomp.org/iomp-webinars-impw-2020-recordings/>. The IOMP School is planning to continue this important activity in 2021 by providing webinars not only in English but also in other languages. A short questionnaire has been sent to IOMP ExBoard members to provide their feedback about the webinars that have already been organized, suggestions for improvement, and their opinion for future webinars by answering relevant questions (provide suggestions for topics of IOMP webinars for 2021, if they think that webinars in Spanish language will be useful, suggestions for eminent speakers etc).

- 3. 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. In November 2019, IUPAP supported the International Conference on Medical Physics (Santiago, Chile). An application has been submitted for the support of the World Congress of 2021 and especially the IOMP School activities that will be organized during the congress. The ‘World Congress on Medical Physics and Biomedical Engineering’ is a triennial event co-organized by the IOMP and the ‘International Federation of Medical and Biological Engineering’ (IFMBE). The World Congress 2018 was organized in Prague (<http://www.iupesm2018.org/>). The World Congress 2021 (<https://wc2021.org/>) will be held in Singapore. For the first time, this very important event will be held in South East Asia. Typically, the World Congresses are attended by 2000-3000 participants from all over the world. The IOMP is planning to organize several scientific sessions through the ‘IOMP School’.
- 4. IUPAP Young Scientist Medal 2016:** The IUPAP Young Scientist awardee for 2020 (Jaydev K. Dave) has been recently selected by the Awards and Honors Committee of the IOMP. For 2018 and 2019, K. Men and M. Nakamura received their award 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).

September 3, 2020

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