

May 16, 2022

Subject: AAPM Report to the International Organization for Medical Physics (IOMP) Council

1. While AAPM meetings have been virtual the last 2 years, all the meetings in 2022 are in-person. The 2022 AAPM Annual Meeting will be held in Washington, DC from July 10-14. The theme of the meeting is, *"Celebrating Medical Physics: Transforming Human Health"*. The title of Dr. J. Daniel Bourland's Presidential Symposium is *"Important Conversations: Alzheimer's Epidemic - Listening to Patients - ARPA-H/Moonshot."* Medical physics colleagues from all over the world are cordially invited to attend. There is a remote option available and a reduced rate of \$100 available to residents of Low to Middle Income Countries (LMIC), with access to meeting content within 24 hours after a session.
2. AAPM's various subgroups of the Education, Professional, and Science Council currently have over 80 Task Groups in progress. These TGs are developing guidelines and recommendations on several important topics. AAPM has already published over 200 TG Reports over the years. These reports are available on the AAPM Website to all active members. In addition, AAPM has published 12 Medical Physics Practice Guidelines (MPPG). The MPPGs are intended to provide the medical community with a clear description of the minimum level of medical physics support that AAPM would consider to be prudent in all clinical practice settings. The support includes but is not limited to staffing, equipment, machine access, and training. The TGs-in progress, of interest to the international medical physics community include;
 - a. Alternative Pathway Candidate Education and Training
 - b. Quality Assurance for 3D printing in medical imaging and radiation therapy applications
 - c. Formation of Medical Physics Institute (MPI)
 - d. Small Fields and Non-Equilibrium Condition Photon Beam Dosimetry
 - e. Conventional LINAC Acceptance Testing
 - f. Update to Report No. 263 - Standardizing Nomenclatures in Radiation Oncology
 - g. Consensus Recommendations - for Incident Narrative Formatting Task Group
 - h. MR-guided Radiotherapy Systems: Considerations for clinical implementation and quality assurance
 - i. FLASH (ultra-high dose rate) radiation dosimetry
3. AAPM recognizes the role of Artificial/Augmented Intelligence applications in the field of medical physics and has several initiatives in consideration at the present time.
4. Formation of International Council: AAPM has been actively engaged in international affairs for much of its history. Many AAPM members have worked directly with several international organizations, including the International Organization for Medical Physics (IOMP) and the International Atomic Energy Agency (IAEA). International activities have contributed significantly to all aspects of the profession of medical physics, improving global health through medical physics. The AAPM's By-Laws and Rules were revised in September 2020 to create the International Council (IC). The International Council will now act as a single point of contact for all international engagements, both within and beyond the AAPM, in an organized and coordinated fashion through centralized management and communication for the betterment of all parties. Membership of the International Council includes representatives from the other four councils, providing direct lines of communication, greatly enhancing the coordination of international efforts among the councils.

The International Council has six committees: Global Clinical Education and Training Committee (GCETC), Global Data and Information Exchange Committee (GDIEC), Global Liaisons Committee (GLC), Global Medical Physics Education and Training Committee (GMPETC), Global Need Assessment Committee (GNAC), and Global Research and Scientific Innovation Committee (GRSIC).

Short term priorities of the IC include;

- Organize an IC Town Hall as soon as possible to increase awareness of IC volunteers in variations and needs of medical physics globally and to provide a framework for them to face realities and challenges facing medical physicists in a global context.
 - Establish effective communication between IC committees and other AAPM councils
 - Improve the communication of IC roles and actions to AAPM members and external public.
 - Promote sustainable international education/training/research activities in medical physics connecting AAPM members with global healthcare scenarios.
5. Please note that the Global Liaison Committee of IC is hosting breakfast meeting from 7:30 9:30 AM (EDT) on July 10th during AAPM Annual Meeting in Washington, DC. The delegates and leaders of National Member Organizations of IOMP are cordially invited to attend this meeting. This meeting will provide an opportunity to discuss collaboration on global projects.

Respectfully submitted by:

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AAPM Delegates