IOMP Initiatives on Equipment Related Professional Capacities

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The International Organization for Medical Physics

- WHO NGO, Founded in 1963, Members: 86 NMO, 6RO, Corporate, 25,000 Medical physicists worldwide
- Objectives: Cooperation, Advancement of Medical Physics, Create NMOs
- ILO Recognition, 2012 (ISCO-08)
- Initiatives
  - Current emphasis: Support the increase of medical physicists in developing regions, Latin America and Africa.
  - Collaboration: WHO, IAEA, IUPESM, IUPAP
  - Educational packages, training, e-learning
  - Workshops, IOMP School
  - Publications – MPW, MPI, MPBME
  - Regional Coordination Board
  - Accreditation
Medical Physics Workforce Pillars

- **Education**
  
  *Education in Medical Physics – Key to Success: Workshops, IOMP School (42 mini-simposia), IOMP libraries program (36 libraries, 27 countries), EMITEL encyclopaedia of medical physics (3200 terms), Multilingual dictionary of terms (29 languages), Educational centers/programs, Certification*

- **Professional Activities**
  
  *World Congress, International Conference on Medical Physics, Regional Conferences, International Day of Medical Physics, Awards, Professional publications*

- **Collaboration**
  
  *WHO NGO, IAEA, UNESCO, ICRP, UNSCEAR, ILO, ICTP, UIPESM, IUPAP, ESR/ECR, RSNA, Industry*
Medial Physicists Involvement

- Safe and effective use of equipment, selection, exploitation and management
- IOMP collaborates with UNSCEAR on a report to establish potential need of MP in the next 20 years
- Bonn Call for Action common action with ICRP & IAEA
- Extend the education and training to low-and-middle-resource countries via e-Learning. IOMP were first to apply e-learning, which doubled the MPs in the world.

**Challenges:**
- Further development of education and training
- Dynamic profession
- Sharing teaching expertise & materials, new e-learning activities
- More effective education methodologies
- Topical Conferences and Workshops, IOMP School
- Establishment of Regional Training Centres

Figure: MPs distribution 1965-2015, IOMP data

… by 2035, the global number of newly trained medical physicists will be of the order of: 17,200 (for High income countries); 12,500 (for Upper-middle-income countries); 7,200 (for Lower-middle-income countries); 2,400 (for Low-income counties) [8]. Adding the needs of Medical Imaging will result in approximately tripling the number of medical physicists in the coming two decades (2015-2035).

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- All Medical Physics Professionals whose dedication contributes daily to the progress of our profession

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