Globalization of Medical Physics

Madan M Rehani
Secretary General, IOMP
sg.iomp@gmail.com

www.iomp.org

Mission of IOMP

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.

Society of societies, Association of associations
OBJECTIVES of IOMP

- Organise international cooperation in medical physics
- Promote communication between medical physics and allied subjects
- Advance medical physics in all aspects
- Support national organisations

IOMP OFFICERS: 2012-2015

President
Dr. Kin-Yin Cheung

Vice President
Dr. Stanislav Tabakov

Secretary-General
Dr. Madan Rehani

Treasurer
Dr. Anchali Krisanachinda

Past President
Prof. Dr. Fridtjof Nüsslin

IOMP CHAIRS: 2012-2015

Professional Relations
Dr. Raymond Wu

Science
Prof. William Hendee

Awards and Honors
Dr. Frithjof Nüsslin

Education and Training
Dr. John Damikakis

Publications
Prof. Tae Suk Suh

Medical Physics
Dr. Virginia Tsapaki
Regional Organisations

• EFOMP: Europe
• ALFIM: Latin America
• AFOMP: Asia-Oceania
• SEAFOMP: South East Asia
• MEFOMP: Middle East
• FAMPO: Africa

ICMP

2008: Dubai, United Arab Republic, April 14-16, 2008 (16th ICMP)
Title: Current and Future Sciences in Radiation Medicine
Organizers: Jamali Salem Al Said, Emirat and Peter RN Smith, UK

2009: Munich, Germany, September 7-12, 2009 (17th ICMP – 11th WC)
Organizers: Wolfgang Schlegel and Olaf Dossel (Co- Presidents)

2011: Porto Alegre, Brazil, April 17-20, 2011 (18th ICMP)
Organizer: Ana Maria Maques da Silva

2012: Beijing, China, May 26-31, 2012 (19th ICMP – 12th WC)
Organizers: Depui Liu, Yubo Fan, and Yimin Hu

2013: IOMP 50th Anniversary: Brighton, UK, September 1-4, 2013 (20th ICMP)
Organizers: International Organization for Medical Physics (IOMP), The Institute of Physics and Engineering in Medicine (IPEM – UK), Peter Jarrett (UK), William Hensle (USA)

2015: Toronto, Canada, June 7-12, 2015 (21st ICMP – 13th WC)
Organizers: David Jeffay
Snapshot

• Travel awards to MP from less resourced countries for ICMP, WC
• Liaise with IAEA, WHO, IUPAP for support to MP and for inputs on documents
• Connecting MPs from developed countries
• IOMP Library program
• Policy statements

Snapshot

AAPM members
• Helping in IOMP membership of their parent countries
• Motivating countries to organize educational events
• Helping in their travel at personal level
What is NEW

1. International Day of Medical Physics (IDMP) started in 2013 - Annual
3. Fellow, IOMP
4. Honorary membership of IOMP

What is NEW: Managing our business

- E-Voting for Council resolutions
- E-Meetings (GoToMeeting)
- Online update of Directory by NMOs and Ros
- Permanent email ID of SG, IOMP
  sg.iomp@gmail.com

Continuation and Strengthening

- Cooperation with international organizations (IAEA, WHO, IRPA..)
- Organization of academic and professional activities by member countries
The International Organisation for Medical Physics (IOMP) represents over 18,000 medical physicists worldwide and 79 affiliated national member organisations.

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 service for patients.

www.iomp.org

OBJECTIVES

• To organise international cooperation in medical physics
• Promote communication between medical physics and allied subjects
• Advance medical physics in all aspects
• To support national organisations

WHAT IOMP DOES

• International Meetings
   World Congresses
   International Conferences
   Sponsorship
• Education
• Training
• Expert advice
• Web based resources
• Publications
• Support for developing countries
• Specialised seminars & sessions
• Professional matters
• Awards

The Medical Physics World is the biannual house journal of IOMP. Sent to every medical physicist.

DEVELOPING COUNTRIES

• Library Program
• Travel Grants
• Equipment Donation Program

MEMBERSHIP

• 82 Affiliated National Organisations
• 6 Regional Groups

CONTACT

sg.iomp@iomp.org

COUNCIL

EXECUTIVE COMMITTEE

FINANCE COMMITTEE

INTERNATIONAL COMMISION OF MEDICAL PHYSICS

ICSU

IUPESM

IFMBE

IOMP

IUPAP

International Council of Science
International Union for Physical and Engineering Sciences in Medicine
International Federation for Medical and Biological Engineering
LINKS

Does it include getting involved with PUBLIC?

International Organization for Medical Physics is on Facebook.

To contact with International Organization for Medical Physics, log in to Facebook Index.
Which types of radiation are ionizing?

- a) Ultrasound
- b) Microwaves
- c) γ-rays
- d) x-rays

Multiple Choice

The worldwide average annual natural dose to humans is:

- a) 2-3 mSv
- b) 5-10 mSv
- c) About 10 mSv
- d) Less than 1 mSv
Congratulations, you passed the quiz!

International Day for Medical Physics
An initiative of the International Organization of Medical Physics

November 7th, 2014
Looking into the Body: Advancement in Imaging through Medical Physics

Did You Celebrate the First International Day of Medical Physics in 2013? If Not, This Year You Should!

Did you celebrate the first International Day of Medical Physics on November 7, 2013? This day marks the celebration of the role of medical physicists in improving the health of patients worldwide. Medical physicists play a crucial role in advancing medical imaging technologies and improving patient care.

International Day of Medical Physics

Messages on the International Day of Medical Physics

Did you celebrate the first International Day of Medical Physics on November 7, 2013? This day marks the celebration of the role of medical physicists in improving the health of patients worldwide. Medical physicists play a crucial role in advancing medical imaging technologies and improving patient care.

International Day of Medical Physics

IOMP Website

Continue  Review Data
<table>
<thead>
<tr>
<th></th>
<th>Country</th>
<th>Sessions</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>United States</td>
<td>4,110</td>
</tr>
<tr>
<td>2</td>
<td>United Kingdom</td>
<td>1,320</td>
</tr>
<tr>
<td>3</td>
<td>India</td>
<td>1,350</td>
</tr>
<tr>
<td>4</td>
<td>Germany</td>
<td>1,309</td>
</tr>
<tr>
<td>5</td>
<td>Italy</td>
<td>1,364</td>
</tr>
<tr>
<td>6</td>
<td>Greece</td>
<td>1,945</td>
</tr>
<tr>
<td>7</td>
<td>Canada</td>
<td>1,933</td>
</tr>
<tr>
<td>8</td>
<td>Australia</td>
<td>817</td>
</tr>
<tr>
<td>9</td>
<td>Poland</td>
<td>814</td>
</tr>
<tr>
<td>10</td>
<td>Brazil</td>
<td>799</td>
</tr>
<tr>
<td>11</td>
<td>Austria</td>
<td>790</td>
</tr>
<tr>
<td>12</td>
<td>Japan</td>
<td>550</td>
</tr>
</tbody>
</table>

| 13 | Iran           | 625      |
| 14| Saudi Arabia   | 599      |
| 15| France         | 587      |
| 16| Spain          | 481      |
| 17| Hong Kong      | 416      |
| 18| Netherlands    | 427      |
| 19| Bulgaria       | 412      |
| 20| Malaysia       | 400      |
| 21| Mexico         | 385      |
| 22| Turkey         | 357      |
| 23| Pakistan       | 294      |
| 24| China          | 287      |
| 25| Argentina      | 286      |
| 26| South Korea    | 272      |
| 27| Indonesia      | 271      |
| 28| South Africa   | 269      |
| 29| Sweden         | 262      |

| 30| Philippines    | 239      |
| 31| Egypt          | 233      |
| 32| Switzerland    | 233      |
| 33| Morocco        | 232      |
| 34| Portugal       | 229      |
| 35| Ukraine        | 221      |
| 36| Nigeria        | 220      |
| 37| (not set)      | 219      |
| 38| Algeria        | 204      |
| 39| Iceland        | 199      |
| 40| Romania        | 192      |
| 41| Nepal          | 191      |
| 42| Taiwan         | 191      |
| 43| New Zealand    | 185      |
| 44| Bangladesh     | 157      |
| 45| Thailand       | 162      |
| 46| United Arab Emirates | 151    |
MPI Journal (mpijournal.org)

- Three months: (2/04/2013 to 19/07/2013) the journal web site had 12,474 visitors.
- Most articles have few hundreds of downloads

Fellow of IOMP
Guidelines

IOMP Awards and Honours Committee, April 17, 2013

Approved by IOMP Executive Committee: 21st April 2013.

Approved by IOMP Council through e-Ballot by 100% of 54 votes cast in favour and declared on 1st May 2013.

Table 1: Criteria for selection of Fellows of IOMP

<table>
<thead>
<tr>
<th>Activity</th>
<th>Points</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Group A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Committee Member of IOMP or its Regional Organisations (per 3 year term)</td>
<td>4</td>
<td>Points per term of office (usually 3 years, but not less than 2)</td>
</tr>
<tr>
<td>Committee Chair of IOMP or its Regional Organisations (per 3 year term)</td>
<td>7</td>
<td></td>
</tr>
<tr>
<td>Officers of Regional Organisations – per 3 year term</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>IOMP Officer (per 3 year term)</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>Editor of a relevant MP journal – per 3 year term</td>
<td>9</td>
<td>The journal must be associated with IOMP or one of its regional organisations</td>
</tr>
<tr>
<td>Other editorial activities such as associate editor, deputy editor and member of the editorial board of a relevant MP journal – per 3 year term</td>
<td>3</td>
<td>The journal must be associated with IOMP or one of its regional organisations</td>
</tr>
<tr>
<td>Lessions served for a term of 3 years (EJFEP, IMPPE, etc., or other significant appointments)</td>
<td>3</td>
<td>This is in addition to other activities</td>
</tr>
<tr>
<td>Council member/representative of regional organisation (per 3 year term)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Group B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Activities related to World Congress of Medical Physics and Miscellaneous on International Printers</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>
First Batch of FIOMPs

- Barry Allen, Australia
- Carlos E. de Almeida, Brazil
- Caridad Borrás, USA/Spain
- Kin Yin Cheung, Hong Kong
- Oscar Chomiki, Poland
- G. Donald Frey, USA
- Gary Fullerton USA
- William R. Hendee, USA
- Kwan Hoong Ng, Malaysia
- George Mawko, Canada
- Azam Niroomand-Rad, USA
- Fridtjof Nuesslin, Germany
- Colin Orton, USA
- Madan Rehani, Austria/India
- Peter Smith, United Kingdom
- Perry Sprawl, USA
- Slavik Tabakov, United Kingdom
- Raymond K. Wu, USA
Survey on Female Medical Physicists

- **Africa**: 17 countries
  - Algeria, Cameroon, Ethiopia, Egypt, Ghana, Madagascar, Mauritius, Morocco, Namibia, Nigeria, Senegal, South Africa, Sudan, Tunis, Uganda, Zambia, Zimbabwe,
  - Min: Ethiopia (0%), Max: Senegal and Madagascar (100%)
  - Average=28% excl. 0 and 100

Survey on Female Medical Physicists

- **West Asia**: 8 countries
  - Bahrain, Iraq, Lebanon, Oman, Qatar, Syria, UAE, Yemen
  - Min: Yemen: 16%
  - Max: Bahrain: 87%, UAE: 78%
  - Average: 51%

Survey on Female Medical Physicists

- **East Asia**: 8 countries
  - Bangladesh, Brunei, India, Mongolia, Philippines, Singapore, Sri Lanka, Thailand
  - Min: Bangla Desh (25%)
  - Max: Thailand:60%, Brunei:100%
  - Average=39%
Survey on Female Medical Physicists

• Central & Western Europe (10 countries)=41%
• Eastern Europe (7 countries)= 48%
• LA (12 countries)= 26%
• West Asia (8 countries)=51%
• East Asia (8 countries)= 39%
• Africa (17 countries)=28%
• USA=21%

Recap

• Current ExCom
• Snapshot of activities
• What is new
• Continuation and strengthening
• Getting into public domain
• IDMP, MPI, FIOMP, eMPW
• Female medical physicists