



35 YEARS MEDICAL PHYSICS WORLD

Volume 10, Number 1 MEDICAL PHYSICS WORLD Bulletin of the International Organization for Medical Physics

Table of Contents: President's Message, Medical Physics Latin America, Vice-President's Report, Editor's Report, Officers of the Council/IOMP, Secretary-General's Report, Rio Meeting, Travel Grants Awarded For World Congresses, Nomination For Officers and Committee Chairs, New Members, IOMP Achievements 1991-2019, Test Tools For Developing Countries, International Organization For Medical Physics Corporate Affiliates, 1994-2019, World Congress Update 1991-2019, Calendar of Events.

International Organisation for Medical Physics Electronic Medical Physics World Volume 1 Number 1 June, 2010. "Cancer and Biomedical Physics" The President's View. From the early beginning, when our profession's domain was just radiation measurement, dose calculation and development of biological instrumentation...

Volume 1 Number 1 1984 Medical Physics World Bulletin of the International Organization for Medical Physics. Adhering National Organizations 1982: Austria, Belgium, Brazil, Canada, Denmark, Federal Republic of Germany, Finland, France, German Democratic Republic, Greece, Hungary, India, Ireland, Israel, Italy, Japan, Mexico, Netherlands, New Zealand, Norway, Poland, South Africa, Switzerland, Spain, Sweden, Thailand, United Kingdom, United States of America.

International Organization for Medical Physics eMPW Volume 6 Number 2, December, 2014. UNSCAR launches the latest Global Survey of Medical Exposure. Basic Safety Standards: International & Supplemental. Madan M Rehani, PhD IOMP Secretary General. EUTEMPE Prof. Heidi Boasman Project Coordinator EUTEMPE-IX. Medical Physics World

President's Message: Dear Friends and Colleagues: I have been honored to undertake the duties of President since the last International Congress in Hamburg in 1983. In succeeding Professor John Mallard, I have taken over a task which it will not be easy to fulfill as successfully as he did. His persistent struggle for the admission of the International Union of Physical and Engineering Sciences in Medicine (IUPESM) to the International Council of Scientific Unions (ICSU) must be mentioned, and this gives us, although as Associate Member, international recognition comparable to that of the long-established scientific unions which are rich in tradition. There are good reasons why John Mallard is the first President of the IUPESM! Together with John Mallard, Prof. Rune Walmstad, Secretary General, has retired from the Board of Officers. Rune Walmstad held this busy post for 6 years. He has established valuable contacts with the associate member organizations and got in touch with colleagues in those countries which were not yet members of our IOMP or were still reluctant to join us. Sincerest thanks from all of us to John Mallard and Rune Walmstad! The new team deciding on the fate of our organization until the Helsinki Congress in 1985 consists, besides myself, of Prof. Lawrence Lanzl, Vice President, and Dr. Brian Stedeford, Secretary General. Dr. Lanzl will then become our new President and Brian Stedeford, I hope, will still be the Secretary General. Upon our inauguration, we have set ourselves goals for our three years in office. Focal points will be, among others, close cooperation with international organizations, such as the World Health Organization (WHO) and the International Atomic Energy Agency (IAEA) in such matters as, for Continued on page 2

Volume 20, Number 1 MEDICAL PHYSICS WORLD Bulletin of the International Organization for Medical Physics. President's Message: Dear friends and colleagues, I am pleased to have the opportunity to address you in this issue. One of the major topics that I addressed in my first President's Message (MPW, Vol. 10, No. 2, 2003) was to ask members, who wanted to become more involved in IOMP affairs, to communicate with us and get involved with the tasks at hand. I would like to thank those who responded and have already got involved with our activities as outlined here. Members of the committees (Science, Education & Training, Professional Relations, Honors and Awards, Rule, and Finance) except for Nominating Committee have been finalized and approved by EXCOM. We are asking 3 members, one each from Africa, Asia, and Latin America to serve as members of Nominating Committee for 2006 election. If interested, please contact me. EXCOM has asked the newly established Rule Committee to provide guidelines to membership for the following items: (a) Terms for Chair and Member of Committee (b) Criteria for committee membership (c) Guidelines for Post WC Travel Grant, in conjunction with PRC (d) Rules for Acceptance of Proxy Votes at future WC. If interested, or if there are other items that need to be considered by Rule Committee, please send your ideas and thoughts to Prof. Fridtjof Næsken from Germany. Dr. Glen Williams from USA is now serving as the new Chair for the International Training Program. Please send your annual reports along with your request for books, journals and other educational materials directly to him. Dr. Michael Sarrafian from USA, a member of Finance Committee, is now serving as our first Corporate Liaison Officer. His major role is to establish close ties with Continued on page 2

International Organization for Medical Physics eMPW Volume 33 Number 1 March, 2017. "We must believe that we are gifted for something, and that this thing, at whatever cost, must be attained." Marie Skłodowska Curie 1867-1934. Medical Physics World SPECIAL ISSUE ON WOMEN IN MEDICAL PHYSICS

In this issue: President's message by A. Kaul 1 Brazilian Association of Medical Physics 1 Calendar of Events 3 Announcements of Medical Physics World 3 Brief History of IOMP by R. Walmstad 4 Status of IOMP 6 IAEA/WHO Dosimetry Network by H. Eisenlohr 9 American Association of Physicists in Medicine 13

International Organization for Medical Physics eMPW Volume 5 Number 1 July, 2014. Table of Contents: President's Message, Medical Physics Latin America, Vice-President's Report, Editor's Report, Officers of the Council/IOMP, Secretary-General's Report, Rio Meeting, Travel Grants Awarded For World Congresses, Nomination For Officers and Committee Chairs, New Members, IOMP Achievements 1991-2019, Test Tools For Developing Countries, International Organization For Medical Physics Corporate Affiliates, 1994-2019, World Congress Update 1991-2019, Calendar of Events. International Day of Medical Physics November 7, 2014 Looking Into the Body - Advancement in Imaging through Medical Physics. Medical Physics World

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# Medical Physics World

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# Editorial

Colin G. Orton, PhD and Magdalena Stoeva, PhD  
Editors IOMP Medical Physics World



This issue of eMPW is dedicated to celebration of both the 35th anniversary of the founding of Medical Physics World in 1984, as you can see from the front cover, and the International Day of Medical Physics (IDMP) on November 7th. Let me begin with a brief review of how MPW began.

The origins of Medical Physics World.

It all began at the 2nd World Congress on Medical Physics and Biomedical Engineering, Hamburg, 1982, when Professor Larry Lanzl was elected President-Elect of the IOMP. He realized that communication between the Officers and the representatives from the, then, 27 member countries on the IOMP Council, was difficult since it only occurred once every three years at the World Congresses. This was before e-mail and the internet. He decided that what was needed was a newsletter and, because he knew that I was a Past-Editor of the AAPM newsletter (AAPM Quarterly Bulletin), he asked me to help him establish an IOMP newsletter. He did not want this to be a financial burden on the IOMP, so he asked me to try to find corporations willing to advertise in the new newsletter in order to cover the cost. We soon realized that corporations would be unwilling to spend much money to advertise in something that would be distributed to just a few individuals in these countries, so we decided to find a way to distribute the newsletter to all members of all the IOMP member countries. We even envisaged that, ultimately, the

newsletter might be able to generate a profit for the IOMP! It was then that we decided to give the newsletter an important sounding title so as to be attractive to potential advertisers. Medical Physics World (MPW) was born.

Since there were about 7,000 individual members of the IOMP member countries, for the IOMP to print and distribute all 7,000 copies of MPW was clearly going to be prohibitively expensive, so it was decided that the IOMP would pay for the printing but would send all national societies enough copies for them to distribute to their members by whatever means they decided to adopt. Larry was able to convince the IOMP Council to provide \$2,500US as seed money to finance this new publication, which represented about 50% of the total income of the IOMP at the time. He must have been very persuasive! The first issue appeared in 1985 and advertising income was significant enough to soon be able to repay the IOMP for this seed money and, within ten years, to generate an annual profit of over \$10,000US, a very significant fraction of the total income of the IOMP. The rest is history.



## **This Special Issue of eMPW**

Medical Physics World has been the voice of IOMP and medical physicists worldwide for the last 35 years.

This Special Issue of MPW also comes with a Special cover page to outline the milestones in the development of Medical Physics World:

- The very 1st issue of Medical Physics World, 1984
- The 1st eMPW issue, 2010
- Medical Physics World Volume 10, 1994
- Medical Physics World Volume 20, 2004
- Medical Physics World Volume 30, 2014
- The 1st Medical Physics Issue with ISSN, 2014
- The 1st Special Issue of Medical Physics World, dedicated to Marie Curie's 150<sup>th</sup> Anniversary and the International Day of Medical Physics, 2017

This Special Issue of Medical Physics World is about to mark another milestone in our history – the first issue dedicated to

MPW's anniversary and the biggest MPW issue so far.

To commemorate the 35th anniversary and to celebrate the International Day of Medical Physics we have messages in this Special Issue from the IOMP (President Madan Rehani and Vice-President John Damilakis), the IOMP Regional Collaboration Board (Slavik Tabakov), the WHO (Maria del Rosario Perez and Adriana Velasquez), the IAEA (Karen Christaki, Giorgia Loreti, Paula Toroi, Virginia Tsapaki and Debbie van der Merwe), the AAPM (Cynthia McCollough, M. Saiful Huq, Bruce Thomadsen), the IDMP Coordinator (Ibrahim Duhaini), a reprint of the Immediate Past Editor-in-Chief of MPW (Virginia Tsapaki) 2017 interview for MPW, and the co-Editors-in-Chief of Medical Physics International (Perry Sprawls and Slavik Tabakov). In addition, we have articles on the histories of MPW (Azam Niroomand Rad), the first version of Electronic Medical Physics World, EMPW (Kwan Hoong Ng, et al) and a reprint of Colin Orton's 2015 interview for MPW, some tables showing the contents of past MPWs and the MPW Editors compiled by our current Editor-in-Chief Magdalena Stoeva, a Calendar of some innovations in Medical

Physics that happened during the existence of MPW presented by our calendar editor Dr. Duhaini, as well as an article "Exposure to low dose CT for lung and colorectal cancer screening: What are the risks of radiation?", by John Damilakis, which demonstrates how MPW and eMPW have often published scientific articles as well as just "news".

The IOMP Medical Physics World has a long history of serving our professional community and contributing to the advancement of medical physics worldwide by providing a bulletin to all members covering IOMP activities and matters of best interest to medical physicists worldwide. Thanks to the professionalism of the MPW Editors and their editorial teams, who produced 67 successful issues of MPW throughout the last 35 years, Medical Physics World always succeeded to fulfill the mission it was charged with and has proven many times the first commitment made by the first MPW team "... to make 'Medical Physics World' worthy of its title" [Medical Physics World, 1984, vol. 1, no. 1, p. 1-2]

Enjoy reading Medical Physics World, and be an active part of MPW's important anniversary!

# President's Report

Madan M. Rehani, PhD  
President of IOMP



We are delighted to see Medical Physics World (MPW) publication of IOMP reaching the 35 years celebration. It started as a hard copy publication which then became electronic version from June 2010. Initially a bunch of hard copies were sent to officers of the IOMP member countries asking them to circulate among their memberships. With the advent of electronic mail, it became much easier to reach larger audience through click of a button. All issues of MPW and

eMPW can be [accessed from IOMP website](#).

The focus of the current term (2018-2021) has been to reach grass roots and to diversify our outreach to areas beyond the traditional audience of radiological professionals. As a result, it was deemed appropriate to supplement eMPW which has the frequency of 6-monthly with IOMP Newsletter with bimonthly frequency. IOMP Newsletter was started in April 2019 [and all issues are available from this link](#). There has been a steep increase in number of visits to Newsletter and that is moving in direction of reaching grassroots. We aim to reach every medical physicist globally. On diversification, IOMP has started partnering with organization to inform medical and pre-medical students about medical physics. [The first such activity is coming up in Qatar](#). IOMP is partnering with Asian Oceanian Congress of

Radiology (AOCR) for its 18<sup>th</sup> congress in Kuala Lumpur in 2020 where [AOCR meets IOMP](#) program will be organized. IOMP along with Cardiovascular and Interventional Radiological Society of Europe ([CIRSE](#)) shall have joint webinar series through IAEA and the first such webinar shall be held in Jan 2020. Further actions are in process to have cooperation with other professional societies. Strengthening with traditional audience continues and therefore every issue of the Newsletter has at least one item on radiation oncology physics that receives normally the largest visits.

It is hoped that the combination of eMPW and Newsletter shall provide sufficient material that our medical physics community in the world aspires to get from IOMP. Please do not hesitate to [reach out to us](#) with your suggestions.

# Exposure to low dose CT for lung and colorectal cancer screening: What are the risks of radiation?

Prof. John Damilakis

IOMP Vice President and President-elect



Lung cancer is the most common cause of cancer death followed by cancers of liver, stomach, colorectal and breast (1). It is of crucial importance to develop cost-effective methods to identify individuals with abnormalities suggestive of a specific cancer before there are any symptoms. Many studies have examined the potential of CT for lung cancer screening and colorectal cancer screening. Are radiation doses and radiogenic risks associated with the above screening methods an important disadvantage for their acceptance as a mass screening tool?

The National Lung Screening Trial (NLST) is a US study comparing low-dose CT with chest radiography in the screening of smokers for early detection of

lung cancer (2). This study has found that screening with low-dose CT could reduce lung cancer mortality by 20% in comparison with chest radiography. The NLST recommends CT screening for current or former smokers (former smokers having quit smoking within the past 15 years) in the age group from 55 to 74 years with a smoking history of at least 30 pack-years (1 pack/day for 30 years, 2 packs per day for 15 years etc) and no history of lung cancer. Decision for CT screening should be based on careful consideration and discussion between patient and health care provider (3). It should be stressed that low dose CT screening for lung cancer has its risks. Thus, individuals screened with low dose CT have a high rate of false positive results (3) that may lead to unnecessary follow-up invasive testing for example bronchoscopy or biopsy. Another point of concern is radiation dose from low dose CT. Patient dose from a low-dose chest CT examination is about 1.5 mSv. The ICRP and the BEIR committee of the US National Research Council have provided estimates of cancer mortality risks per unit dose. A recent study (4) shows that the median cumulative effective dose after 10 years of CT screening is roughly 9 mSv for men and 13 mSv for women. According to that study, after 10 years of low

dose CT screening in 5203 asymptomatic high risk individuals, 1.5 lung cancers and 2.4 major cancers were theoretically induced by radiation.

CT colonography (CTC) has been used as a method to screen for colorectal tumors as well as for large colorectal polyps mainly because of its accuracy, less-invasiveness in comparison with colonoscopy and potential for detection of extra-colonic abnormalities. Effective dose from CTC ranges from about 3 mSv to about 9 mSv. Radiation dose is correlated to CT scanner technology. A study (5) shows that, in comparison with 64-slice CT technology, 256-slice CT systems deliver about 40% less radiation dose. A single low-dose CTC performed with a 256-slice CT scanner would result in a 0.01% lifetime cancer risk i.e. 1 in 10000 for a typical patient cohort. The risk of radiation induced cancer from quinquennial CTC studies between the ages of 50 and 80 years is small i.e. 0.074% and 0.071% in females and males respectively. Another study on radiation-related cancer risks from CTC screening (6) shows that the benefits from quinquennial CTC screening from 50 to 80 years outweigh the radiation risks.



In conclusion, CT is an important tool for lung cancer screening and colorectal cancer screening in high-risk patients. Further studies are needed to develop optimized acquisition protocols and demonstrate conclusively that the benefits of CT outweigh the radiogenic risks

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## IOMP Regional Coordination Board

Prof. Slavik Tabakov

IOMP Past-President

The Regional Coordination Board (RCB), established in Toronto 2015 with aim to coordinate activities and good practices between all members in the Regions of IOMP, continues its successful meetings. Additionally to the Virtual meetings, the RCB has met in Toronto 2015, Bangkok 2016, Jaipur 2017, Prague 2018 and now Santiago 2019. As usual RCB includes in its discussions all ExCom members and officers from the IOMP Regional Organizations (RO).

At its last meeting RCB discussed the IOMP strategic plan and RO were asked to include concrete proposals in this direction. EFOMP informed about the progress of education and training through the ESMPE (European School of Medical Physics Experts). IOMP School activities will also form part of the EFOMP bi-annual conference. RCB thanked ALFIM for the organization of current ICMP2019. FAMPO informed that they have recently started a newsletter and a journal for the African region. AFOMP discussed

the use of portable ultrasound devices for training in remote areas. MEFOMP informed that they are interacting with a national Medical Physics Certification Board to enhance visibility of MPs in the region. AAPM stated the importance of engaging vendors and informed that they have set up a Corporate Advisory Board including small, medium and large vendors to develop corporate relations. It was agreed that liaison/interaction with vendors should be encouraged to support the strategic plan. The President asked for feedback from each RO regarding their willingness to collaborate with major events like ICMP or a World Congress, if they are in the same region, and not to organise their own parallel events at the same period.

The RCB supports the activities of IOMP ExCom and provides advice and cooperation on various subjects, including the recent incorporation of IOMP. It is expected its function to grow in future.

## **IDMP 2019 Message**



Dear Medical Physics Colleagues across the Globe,

It is my pleasure to announce to you the theme of this year to mark the celebrations of the International Day of Medical Physics (IDMP 2019):

### ***It is a Medical Physics World***

Aside from being to commemorate the establishment of the IOMP e-Newsletter (eMPW), this theme reflects the fact that many medical physicists (more than 25,000) around the globe are mostly united through their corresponding national societies (around 86) and regional organizations (6) under the umbrella of IOMP. This unification helps us as medical physicists to enhance our profession for the best interest of our communities and patients everywhere.

I wish all my colleagues around the World a **Happy Medical Physics Day**. Enjoy the celebrations of this day by preparing symposiums, parties, contests, gathering, rallies, or any other means to show our pride of being a **Medical Physicist!**

**Ibrahim Duhaini**

*IOMP Treasurer  
IDMP Coordinator*

# November 7, 2019: IDMP

## IT'S A MEDICAL PHYSICS WORLD!

### MESSAGE FROM WHO

Adriana Velazquez, Maria del Rosario Perez



IDMP 2019 WHO  
IDMP Official

We are here to invite you to celebrate the International Day of Medical Physics which will take place on the 7<sup>th</sup> November 2019 under the theme “It’s a Medical Physics World!”

We take this opportunity to thank the International Organization for Medical Physics for bringing the attention to the importance of the work needed to be done by medical physicists to guarantee the safety and quality of radiation interventions to patients.

Radiation health technologies including diagnostic radiology, nuclear medicine, image guided interventions and radiotherapy are increasingly used in both adult and pediatric patients. Radiation technology are essential tools for diagnosis and

treatment of non-communicable diseases not only for cancer care but also for example in the management of cardio-vascular diseases which are in the rise in low and middle income countries. With the rapid advancement of these technologies and their global spread, it became imperative to advance the education, training, development, availability and recognition of medical physicists all over the world. Adequate support is required to ensure the right technologies are procured and calibration of sources is correctly done, the maintenance of equipment is properly performed, the use of the devices is appropriate and the radiation dose to patients is optimized. It is known that medical physicists are still lacking in many settings where radiation technology and equipment start to be available. Medical physicists play a key role in the safeguard of quality in healthcare, strengthening radiation safety culture in medical facilities, providing radiation protection education and training to other health professionals and supporting the implementation of radiation safety standards in clinical settings.

On behalf of WHO it is a pleasure for us to congratulate the colleagues from the International Organization for Medical Physics from all over the world for this celebration!



# It's a Medical Physics World – Reflections of the IAEA's Medical Physicists

(by alphabetical order)

Karen Christaki, Giorgia Loreti, Paula Toroi, Virginia Tsapaki and Debbie van der Merwe

DMRP Section, NAHU, IAEA

Amidst advances in nuclear medicine and radiotherapy techniques in the past decades, medical physics has gained recognition for its imperative role to treat patients more efficiently, effectively and safely.

In light of this year's theme "It is a Medical Physics World", we reflect on the work, support and significance of medical physicists and the role of the International Atomic Energy Agency (IAEA) in providing scientific expertise, educational material and training activities to ensure that appropriate clinical outcomes can be achieved without compromising the safety of the patient.

The methods used for imaging and treatment of diseases, such as cancer, require accurate dosimetry and complex quality assurance procedures to ensure that appropriate clinical outcomes can be achieved without compromising the safety of the patient. The IAEA, through its Dosimetry and Medical Radiation Physics (DMRP) Section, within the Division of Human Health, develops internationally harmonized dosimetry and quality assurance codes of practice, guidelines and recommendations for best practices, and provides scientific expertise and guidance to Member States for their implementation.

The IAEA is furthermore committed to support education, training and continuous professional development of medical physicists worldwide to ensure the achievement of the highest level of quality and effectiveness of diagnostic and therapeutic procedures involving ionizing radiation.

Examples of the Section's activities include support to quality assurance (QA) of radiation applied to medicine, developing guidelines that help medical physicists ensure safety, quality and effectiveness of diagnostic and therapeutic applications of radiation, providing expertise on QA and metrology in radiation medicine, supporting the medical physics aspects of quality audits in radiotherapy, nuclear medicine and diagnostic imaging, conducting research projects, contributing to scientific publications and developing e-learning material for the benefit of medical physicists around the world.

The DMRP Section supports the harmonization of academic education and clinical training in medical physics, helping Member States to adhere to international guidelines and providing guidance and expertise for the development of tailored national or regional strategies and pathways to achieve results accordingly.

The IAEA supports building and scaling up medical physics capacities, in pursuit of safe and quality healthcare in all Member States. The work of DMRP underpins this goal by supporting the establishment and advancement of the medical physicists' knowledge, ensuring they work with the highest standards of competence. Furthermore, the IAEA through the DMRP Section supports the recognition of clinical medical physicists as healthcare professionals and assists Member States to advance health services through the work of qualified medical physicists in hospitals, clinics, and medical centres.

The IAEA also provides dosimetry calibrations and audit services to Member States. Traceable calibrations are achieved through the IAEA/WHO network of Secondary Standards Dosimetry Laboratories (SSDLs) with which the IAEA establishes a link to the international measurement system (image 1). Dosimetry auditing services are also provided both for SSDLs and for hospitals engaged in radiotherapy. The primary beneficiaries are patients. All these activities are part of the IAEA dosimetry laboratory in Seibersdorf, one of the 8 Nuclear Science and Applications laboratories located there. The dosimetry laboratory very recently obtained a new linear accelerator facility. This facility will expand the IAEA's capacity to provide dosimetry calibration and auditing services. The new facility will also be used to support education, training and research in radiotherapy dosimetry and metrology.

The IAEA is committed to deliver concrete results in promoting and improving the availability and quality of radiation medicine for Member States. This is achieved through the continuous synergy of a multidisciplinary team of experts across the IAEA.

An example of such collaborations is the IAEA Human Health Campus website, which offers a comprehensive approach to radiation medicine, serving as an informative resource for health professionals, working in Medical Physics, Nuclear Medicine, Radiology, Radiation Oncology and Nutrition. The Human Health Campus provides to all Member States scientific material, teaching and educational resources, including links to IAEA relevant publications and e-learning such as video tutorials and online training courses, completely free of charge:

<https://humanhealth.iaea.org/HHW/MedicalPhysics/e-learning/index.html>

The DMRP Section has developed databases, which are continuously verified and updated by its staff members and colleagues from the Human Health Division. The databases which are focused on X-ray machine availability, on training and other educational activities are available online:

<https://humanhealth.iaea.org/HHW/DBStatistics/index.html>

The DMRP Section develops medical physics handbooks, guidelines and publications that are also easily and freely accessible to all Member States from the IAEA website. Examples of the **latest** publications include:

- Medical Physics Staffing Needs in Diagnostic Imaging and Radionuclide Therapy: An Activity Based Approach. This publication describes an algorithm developed to determine the recommended staffing levels for clinical medical physics services in medical imaging and radionuclide therapy, based on current best practice, as described in international guidelines: [https://www-pub.iaea.org/MTCD/Publications/PDF/PUB1797\\_web.pdf](https://www-pub.iaea.org/MTCD/Publications/PDF/PUB1797_web.pdf)
- SSDL charter explaining the privileges, rights and duties of IAEA/WHO SSDL Network members: <https://ssdl.iaea.org/Home/SSDLNetworkCharter>
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For more information, you are encouraged to visit the IAEA DMRP website: <http://www-naweb.iaea.org/nahu/DMRP/about.html>

On Wednesday 7 November 2019, the IAEA will join all medical physicists around the world and the International Organization for Medical Physics (IOMP) in the celebration of the 7th International Day of Medical Physics (IDMP) (image 2). For more info: <https://humanhealth.iaea.org/HHW/MedicalPhysics/TheMedicalPhysicist/IDMP/2019/index.html>

For any queries email us at: [DOSIMETRY@IAEA.ORG](mailto:DOSIMETRY@IAEA.ORG)



Image 1. DMRP staff at Seibersdorf Dosimetry Laboratory.



Image 2. IAEA IDMP 2019 poster





VIA EMAIL to: [ms\\_stoeva@yahoo.com](mailto:ms_stoeva@yahoo.com), [sg.iomp@gmail.com](mailto:sg.iomp@gmail.com)

November 4, 2019

Dr. Magdalena Stoeva  
Editor, *Medical Physics World*  
International Organization for Medical Physics (IOMP)

Dear Dr. Stoeva:

The American Association of Physicists in Medicine (AAPM) wishes to congratulate the editors of *Medical Physics World* for reaching their 35<sup>th</sup> Anniversary. AAPM is proud to have contributed to the success of MPW by serving as the founding National Member Organization of the International Organization for Medical Physics (IOMP). The first editor of MPW was Lawrence H. Lanzl who at the time was Professor of Medical Physics at Rush-Presbyterian-St. Luke's Medical Center in Chicago. Dr. Lanzl also served as Vice President of the IOMP at that time.

Throughout the last 35 years, MPW has served as the voice of the IOMP and has published two issues in almost every year. Each issue of the journal brings news about IOMP activities, conferences and publications. Each of the committees of the organization provides a report on their recent activities, and the activities of national and regional organizations of the IOMP are highlighted. In this way, every issue of MPW contains material of interest to medical physicists throughout the world.

Again, our congratulations to you and all previous editors for reaching this impressive milestone.

Sincerely,

A handwritten signature in cursive script that reads 'Cynthia McCollough'.

Cynthia McCollough, Ph.D., President

A handwritten signature in cursive script that reads 'M. Saiful Huq'.

M. Saiful Huq, Ph.D., President Elect

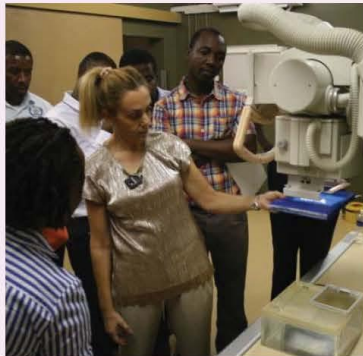
A handwritten signature in cursive script that reads 'Bruce Thomadsen'.

Bruce Thomadsen, Ph.D., Chair of the Board

The Association's Journals are *Medical Physics* and *Journal of Applied Medical Physics*  
Member Society of the American Institute of Physics and the International Organization of Medical Physics

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## The Medical Physics Future is Very Promising



### TSAPAKI VIRGINIA

*Virginia is head of the medical physics Dpt at Konstantopoulou General Hospital of Athens, Greece. She has 25 years of experience in Diagnostic Radiology and Nuclear Medicine. She is an IAEA expert and has been sent in several missions for the last 13 years. She has participated in multiple European projects. She is IOMP Secretary General for the term 2015-2018, EFOMP Chair of Projects Committee for the term 2016-2017 and has been President of Hellenic Association of Medical Physicists since 2012. She has been member of Organizing, Scientific, International Advisory Committee or Chair of various international conferences: World Congress 2015, European Conference of Medical Physics 2012, 2014, 2016, International Conference of Medical Physics 2013, etc. She has more than 100 publications in SCI journals, national, international journals and conference proceedings, 150 presentations and posters in national and international conferences.*



### TRIANTOPOULOU SOTIRIA

*Sotiria is a medical physicist in Greece. She graduated from the School of Applied Mathematical and Physical Sciences of the National Technical University of Athens (NTUA). She obtained her MSc degree in Medical Physics in the University of Athens. She practiced medical physics in "Aretaieio", "Attikon" "Alexandra", "Laiko" and "Konstantopoulou" Hospitals. During her practice, the main topics of research and publications in which she participated are cancer treatment with Hyperthermia and radioprotection of pediatric patients. For two years she participated in radiobiology research to the National Center for Scientific Research "Demokritos". She also participated in the establishment of the Quality Assurance Protocol of Hyperthermia systems in Greece.*

**TS:** How did you enter the medical physics world?

**VT:** My father was a physician in Creta. I was always fascinated, especially during my childhood, by the love and warmth he received by his patients. Creta is not a very big island and people know each other. They used to stop him while walking and greeting him cordially. Once or twice, he took me with him inside the surgery room (I had to wear the special clothing and this was very fascinating for me) to experience his work (simple day eye surgery). This was a disaster as both times I almost fainted. Although my initial intension was to follow his steps, I realized that I could not overcome these unpleasant feelings. A similar profession, that could bring me close to patients and clinical environment that I liked very much, could be the solution. As I really liked also physics it

seemed that medical physics could be the best choice.

**TS:** Is there any person(s) that have had a special impact in your professional life?

**VT:** There are a number of people that made a special impact to my life, but 2 of them made me what I am today professionally. The first one is Dr Vasiliki Neofotistou, a Greek medical physicist, who participated in a number of European projects back in the 90's and opened the fascinating door of European research for me. The second one is Prof Madan Rehani, who was the first person with whom I worked within the International Atomic Energy Agency and who opened the wonderful world of International medical physics through the IAEA training courses.

**TS:** What has been from your point of

view your best contribution to the medical physics world?

**VT:** Going back to my professional steps, I think that the contribution to the training of medical physicists through the IAEA courses is my most important achievement so far. The continuous communication with colleagues around the world, the on site quality control training in various hospitals (some in very bad condition and others simply amazing and very high level) and the smile at their faces when they performed real measurements in a CT scanner or an angiography machine is something that I will always cherish and remember. In some cases, the experience was not good as the hospitals were in a really bad condition but the willingness of the participants trying to work in this situation helped me see the world from a different point of view. And I have to say



that there was not a single country that I went and sensed a different attitude because of my gender.

**TS: How do you see the future of medical physicists?**

VT: In my opinion, the medical physics future is very promising. The evolution of medical technology, the complexity of clinical cases, the increasing trend to personalized treatment of patients, together with the growing needs due to European legislation and International guidelines, point the finger to more medical physicists and more expertise.

**TS: Do you think that it is possible to balance professional, family and personal life?**

VT: Well, this is not an easy question since my children are still young and family needs are very demanding. However, I can say that with good organization and of course, a husband that understands and wishes to help, everything is possible for a woman. Even having these two, however, it is not easy sometimes as each day has only 24 hours!

**TS: What are the 3 most important advice you would give to young**

**women medical physicists to encourage them in their professional development?**

VT: I would say that they should not be afraid to attempt, to try, to risk. Life is never easy for anyone (man or woman). Some of the events may not be to your liking, and how you deal with these events will determine where you will be after this. So don't back down from challenges and don't be afraid of the ladder, just climb on it. ◀







# 35-Year History of the IOMP Medical Physics World: 1984-2019

## 25 Printed Volumes (1984 – 2009)

## 12 Electronic Volumes (2010 – 2019)

Azam Niroomand-Rad, PhD, DSc, FAAPM, FACMP, DABR, FIOMP  
Georgetown University, Washington D.C., USA



This article is written by Prof. Azam Niroomand-Rad, past member and Chair of Education and Training Committee (1990-2000), past Editor of Medical Physics World (MPW) (1994-2000) and Vice-President, President, and Past President

(2000-2009) of the International Organization For Medical Physics (IOMP) commemorating 35-year publication of the Medical Physics World (MPW) since 1984 and Electronic Medical Physics World (eMPW) since 2010.

Like most scientific, educational and professional societies, IOMP activities and publications relies heavily on the voluntary support of the members to advance the goals and objectives of the Organization. Without dedication and effort of my colleagues in the AAPM (American Association of Physicists in Medicine) and IOMP who helped me to advance the goals and objectives of the Organization, I could not have participated, lead and/or advance my educational and executive endeavors during the past 3 decades. Examples are Founding the AAPM/IOMP

International Scientific Courses/workshops (ISEP-1990) for benefit of developing countries, instituting medical physics programs and societies where there was none such as Pakistan – 1992, Iran-1993, Algeria-1994, Morocco-1996, Egypt-1998, Thailand-2000, Bangladesh-2001, Saudi-Arabia-2002, and Cameroon-2005. In addition, launching the Awards and Honors Committee (1998) including Sklodowska-Curie Award (2000), Harold Johns Medal (2003) and International Union of Pure and Applied Physics (IUPAP) Young Scientist Award in Medical Physics (2006). Initiating Publication Committee (1998), International Library Program (1990), Rules Committee (2000), A 5-year Moving Forward Strategy (2002), International Commission on Medical Physics (IComMP-2003), History Sub-Committee (2008), and lastly having medical physics profession be listed in the International Standard Classification of Occupations (ISCO-2008) by the ILO (International Labor Organization).

With this brief introduction, I would like to point out that most of the information provided in this article are rather “old” and has been extracted from the IOMP Historical Data / Tables that were prepared in 2012 in an effort to document and preserve IOMP activities when electronic communications were not readily available and the Organization did not have dedicated Website, secretary and/or a permanent office. The detailed contents of these Tables that have been updated as of this year (2019) are available

at the IOMP Website: <https://www.iomp.org/iomp-history/>

In addition, some of the information has been taken from two articles entitled “A History of IOMP – 50 Years”, Part 1 and Part 2 that were written by Azam Niroomand-Rad, Colin Orton, Peter Smith, and Slavik Tabakov and were published in the *Medical Physics International Journal* which are available at the IOMP Website and can be obtained from Vol.1, No.2 (1993) and Vol.2, No.1 (1994) respectively:

<http://mpijournal.org/pdf/2013-02/MPI-2%20with%20suppl%20IPEM2013.pdf>

<http://mpijournal.org/pdf/2014-01/MPI-3%20with%20suppl%20RPM2014.pdf>

In 1963 starting with just 4 Adhering National Members (Canada, Sweden, UK, and USA) representing only a few hundred medical physicists, the leaders of the IOMP communicated their visions, plans and activities for the establishment of the Organization via “Newsletters”. But since the Organization had no permanent headquarters or staff, there is no record of these “Newsletters” per recollection of Prof. Colin Orton, past Editor and past President.

By 1982 there were 28 Adhering National Members representing few thousand medical physicists worldwide who had joined their national medical physics organizations and consequently joined the IOMP Organization. Adhering National Members are listed in Table 2 and are available at IOMP Website:

[https://www.iomp.org/wp-content/uploads/2019/07/table\\_2-member-countries-update-2019.pdf](https://www.iomp.org/wp-content/uploads/2019/07/table_2-member-countries-update-2019.pdf)

At this time the need to communicate with **all** the members was recognized by the leaders of the Organization in particular Prof. Lawrence Lanzl, Vice President. Therefore, he took a giant step and lay out the foundation of the MPW that has lasted for 35 years. As first Editor of the MPW, Prof. Lanzl announced the formation of the MPW in the first publication of MPW, Volume1, Number 1 in 1984 and asserted that:

“With this initial issue, the International Organization of Medical Physics (IOMP) is inaugurating *Medical Physics World* to expand the channels of communication among its membership. The general content of *Medical Physics World* will include a calendar of events, articles with news on our national

societies of medical physics, reports from the officers of IOMP, general IOMP information, editorials which will be controversial when the need arises, guest editorials letters to the editor and other items” Prof. Lanzl continues by stating “A vital component of *Medical Physics World* will be its advertisements. We hope that our members will consider the products and services of our advertisers, who will be expressing their faith in the medical physics profession. It is our goal to provide a copy of *Medical Physics World* to each member of all national medical physics organizations. Copies will be distributed through the national groups of medical physicists”.

Therefore, with this declaration, the MPW mission and objectives were set forth explicitly by Prof. Lanzl. Worth noting that he was able to secure three advertisers – all from USA (Varian, Plenum Publishing and Gammex) for this initial issue. Thus, the printing and mailing expenses of the first MPW with 16 pages were partially paid by the income generated from these advertisers. The relationship that was initiated by Prof. Lanzl and advertisers was and still is essential to the wellbeing of MPW publications. Hence, from inception the MPW publication relied heavily on the income generated from advertising. Therefore, many members of the Editorial Board had to work hard to create fruitful relationships based on the mutual understanding with the advertisers who later became Corporate Members of the Organization. List of Advertisements, Corporate Members and Corporate Liaisons are recorded in Table 12 (Prior to 2019), Table 5 and Table 26 respectively:

<https://www.iomp.org/historical-tables-prior-2019/>

[https://www.iomp.org/wp-content/uploads/2019/07/table\\_5-corporate-members-2019.pdf](https://www.iomp.org/wp-content/uploads/2019/07/table_5-corporate-members-2019.pdf)

[https://www.iomp.org/wp-content/uploads/2019/07/table\\_26-corporate-liaison-2019.pdf](https://www.iomp.org/wp-content/uploads/2019/07/table_26-corporate-liaison-2019.pdf)

As stated by Prof. Lanzl, one of the main purposes of MPW, was and still is, to publish activities of the Officers in particular, President, Vice-President, Past President, Secretary- General and Treasurer. The reports should provide detailed information about the progress of their responsibilities including their challenges. In the initial issue (Vol.1, No.1), fate of the Organization including its close cooperation with international organizations, such as the World Health

Organization (WHO), International Atomic Energy Agency (IAEA), European Federation of Organizations for Medical Physics (EFOMP) as well as our admission to the International Union of Physical and Engineering Sciences (IUPESM) and to the International Council of Scientific Unions (ICSU) were reported by Prof. Kaul, President (1982-1985). Activities of the national organization (such as Brazilian Association of Physicists in Medicine), Calendar of Events and a brief history of IOMP were also reported in the initial issues. Of importance was a brief history of IOMP by Prof. Walstam, Secretary-General (1976-1982) that included the earlier history of IOMP that was reported by Prof. John Cameron (1969-1976) and had been published in *Physics in Medicine and Biology* in 1974. This article conveyed how IOMP established a closer corporation with International Federation for Medical and Biomedical Engineering (IFMBE) that led to the formation of IUPESM and ICSU membership. Statues of IOMP including its Aims and Functions, Membership, Membership Fees, Administration, Modification to the Statues and Dissolution that were ratified in 1972 were written for the first time for all Members in this inauguration issue (Vol.1, No.1). The outlined processes are still part of IOMP current Statues. Detailed information is available at:

<https://www.iomp.org/medical-physics-world/>.

The following year, in 1985, Prof. Lanzl, Editor, published the second issue of MPW (Vol. 1, No. 2) that was 28-Page long and had 5 times more advertisers than the first issue. In addition to the President's Report by Prof. Alexander Kaul and Secretary-General's Report by Prof. Brian Stedford (1982-1988), Calendar of Events, Prof. Lanzl described in detail IUPESM Statues including voting process for the first time to all members. In this issue, History and Development of the Polish Society of Medical Physics was written by Prof. Oskar Chomicki, who later became IOMP President (2000-2003). Other reports in this issue included: The Hospital Physicists' Organization in UK by Prof. Haggith, statues of International Commission on Radiation Units and Measurements (ICRU) by Prof. Wyckoff, WHO Training Workshops on Quality Control and Assurance in Diagnostic Radiology by Prof. Bauml, Medical Physics Education and Training in the Federal Republic of Germany by Profs. Kaul and Schmit.

The subsequent year, in 1986, Prof. Colin Orton, served as second Editor of MPW (1986-1988) and

under his leadership 6 issues were published and Editorial duties were expanded to include Associate Editor for Calendar of Events. Medical physics societies that were being developed were encouraged to report on the statues of their societies and reporting dates were specified for Spring and Fall issues. However, as the Membership grow, there were more demand on Editorial Board to publish the MPWs on timely manner; namely the first and second issue should be published by June and December of each year. Therefore, MPW publications had to be expanded gradually while preserving its basic goal and format that was set forth by Prof. Lanzl. As of the writing of this article, there were 4 more Editors (Profs. Maughan, Paliwal, Niroomand-Rad, and Parsai) who helped to increase the MPW circulation and the number of advertisers to offset the printing and shipment expenses. However, by 2009 with widespread use of internet, Electronic Medical Physics World (eMPW) was launched and thus far 3 Editors (Prof. Frey, Dr. Tsapaki and Prof. Stoeva) have helped to produce and maintain eMPWs. For list of the Editorial Board of MPW and eMPW, see Table 9 of the IOMP History: [https://www.iomp.org/wp-content/uploads/2019/07/table\\_9-mpw-editors-2019.pdf](https://www.iomp.org/wp-content/uploads/2019/07/table_9-mpw-editors-2019.pdf)

For outlined of reports, announcement and other materials published in MPW(eMPW), see Table 10: [https://www.iomp.org/wp-content/uploads/2019/07/table\\_10-mpw-outline-2019.pdf](https://www.iomp.org/wp-content/uploads/2019/07/table_10-mpw-outline-2019.pdf)

It should be noted that as the Membership grow, so did the activities that were undertaken by the Members of the various committees. As an example, the reports given on teaching and training of medical physicists especially in developing countries attracted many educators worldwide.

One of these educational program in each issue of the MPW included (but not limited to): International Scientific Exchange Programs (ISEP) that was founded initially within International Affairs (IA) of the American Association of Physicists in medicine (AAPM) in 1989 and later in 1991 thru the IOMP Education and Training Committee (ETC) in Kyoto, Japan at the 9<sup>th</sup> ICMP (International Conference on Medical Physics) and 5<sup>th</sup> World Congress on Medical Physics and Biomedical Engineering (WC). For list of WCs and ISEP courses and workshops see Table 6, and 7 respectively:



[https://www.iomp.org/wp-content/uploads/2019/07/table\\_6-icmp-wc-update-2019.pdf](https://www.iomp.org/wp-content/uploads/2019/07/table_6-icmp-wc-update-2019.pdf)

[https://www.iomp.org/wp-content/uploads/2019/07/table\\_7-isep-2019.pdf](https://www.iomp.org/wp-content/uploads/2019/07/table_7-isep-2019.pdf)

Concurrently the professional activities of the Organization increased as the need for recognition of *medical physics* profession became apparent. This necessity was first discussed in 1994 at the (10<sup>th</sup> ICMP – 6th WC) in Rio de Janeiro, Brazil and was reported by Prof. Keith Boddy, President (1991- 2000) in MPW Vol. 10, No. 2. Clearly this was an important prerequisite for improvement of the conditions of the medical physicists especially in developing countries where the hospital / university administrators did not know who they were and what roles they had in treatment and diagnosis of cancer patients. Hence, all Members were invited to provide relevant documentation from their National organizations. Since the detailed history of this major mission has been lost, ignored and distorted by some who later claimed the fruits of this task, I feel obliged to record the facts in this article.

In 1996, Prof. Boddy reported in MPW, Vo. 12, No. 2 that he has been able to communicate with Dr. Farhad Mehran, Director of the Bureau of Statistics at International Labor Organization (ILO) in Geneva, Switzerland. According to Dr. Mehran, *medical physics* profession was not listed as a separate category in future edition of the International Standard Classification of Occupations (ISCO) to be published by ILO. Generally, publication of ISCO is a major and time-consuming

task and is not immediately imminent. A copy of Dr. Mehran's letter addressed to Prof. Boddy was printed in MPW Vo. 12, No. 2. Given the importance of the profession of *Medical Physicists* Dr. Mehran agreed to include this profession as separate category in a future edition of ISCO, following an in-depth examination of the issue. In addition, Dr. Mehran required more information to be submitted – in particular the level of qualifications required to practice *medical physics*. Then few numbers of national experts were to be contacted for comments with an analysis of the results.

With a stroke of luck, Dr. Mehran happened to be a family friend and when I contacted him, he promised to assign high priority to this task and outline the

pathway to ultimately achieve this goal. In 1998, Prof. Colin Orton, President (1997-2003) reported in MPW Vol.15, No.2 that the good news is that *Medical Physicist* is being considered for next ISCO update, but the bad news is that this is going to be a long drawn-out process. A special website was to be activated to collect relevant information and receive proposals for modifications over the Internet. The results were to be presented at the meeting of the International Conference of Labor Statisticians (ICLS), where our proposal will be revised and that the updated ISCO will be prepared for approval at the 2008 ICLS. In my opinion, this was one of the difficult tasks that to achieve by (Profs. Boddy, Orton, and myself).

One major problem was that the “Role and Responsibilities” of *Medical Physicists* in different areas of “Medical Physics” were not well-defined and was differed in various Adhering National organizations. Similarly, education and training of *Medical Physicists* were not consistent and were different for various societies. Therefore, these data needed to be collected in a comprehensive manner for submission to ILO special website created for this purpose. I reported in MPW Vol. 18, No.1 (2002) that our application was being managed by Mr. Hoffman, Chief of the Statistics Section who was not as interested in our application as Dr. Mehran was. Therefore, we had to start at “Ground Zero” with Mr. Hoffman to overcome “Catch 22” obstacle that was in front of us. In my next report in MPW, Vol. 18, No.2, (2003) results of our findings for data collection were described.; namely Medical Physics profession has been recognized in Canada (300 members), Europe (6300 members), and USA (4600 members) amounting to total of 11200 (~ 72%) of medical physicists who worked in developed countries. The rest of them (~28%) were working in developing countries in which Medical Physics profession was not recognized by government authorities. Following year, I reported in MPW Vol. 20, No. 2 (2004) that Mr. Hoffman's recommendation was to include *Medical physicists* as a sub-unit of Group 2111 – Physicists and Astronomers which we objected to since our preference was to be included in Group 222 – Health Professionals. The clinical duties of most medical physicists who work in hospitals and care for patients in collaboration with physicians were emphasized.

In resolving this issue, we were asked by Dr. Young, Director of Bureau of Statistics to comment on the

Exploratory Questionnaire on ILO Website; namely (a) whether medical physicists are sufficiently numerous or important in your country to warrant a unit group; (b) whether they should be grouped together with medical doctors, or physicists and astronomers, or another occupational group; and (c) comment on the proposed description. Therefore, we encouraged medical physicists particularly those from Australia, Canada, China, Italy, The Netherlands, and USA in which their medical physics organizations were listed as health professional to comment on the Exploratory Questionnaire and submit documents from their health organizations to ILO. Subsequently by 2005, we (unofficially) learned that a significant majority of respondents wanted to have Medical Physicists be listed with Medical Doctors in Health Professional category 222. Therefore, in my reports, MPW Vol.21, No. 2 (2005) and MPW Vol. 22 (2006) our members were informed that ILO had (preliminary) approved to do so in the next revision of ISCO-2008 that would be approved by the ILO Governing Body in Dec. 2007. Eventually after 12 years of time consuming efforts by IOMP Presidents (Keith Boddy, Colin Orton, and Azam Niroomand-Rad), for the first time Medical Physicist was explicitly included in ISCO-08 under Group 2111 “Physicists and Astronomer” and was noted as an integral part of Health Professional (Group 22). A specific remark about Medical Physicists in Group 22 was added as reported in my last message as Past President in MPW Vol. 24, No. 2 (2008). Details of ISCO-08 is available at these ILO links:

<https://www.ilo.org/public/english/bureau/stat/isco/>

[https://www.ilo.org/Search5/search.do?sitelang=en&locale=en\\_EN&consumercode=ILOHQ\\_STELLENT\\_PUBLIC&searchWhat=ISCO-08&searchLanguage=en](https://www.ilo.org/Search5/search.do?sitelang=en&locale=en_EN&consumercode=ILOHQ_STELLENT_PUBLIC&searchWhat=ISCO-08&searchLanguage=en)

Another major objective of IOMP has been (and still is) establishing relationship with international organizations such as International Union of Pure and Applied Physics (IUPAP). Since by definition “Medical Physics” is application of “physics in medicine” and since our roots are in physical sciences, it seemed to me that we could benefit from a formalized relationship with IUPAP. As reported in my President’s Message in MPW Vol. 20 No. 1, and No. 2 (2004), as well as MPW Vol. 21, No. 1 and No. 2 (2005) our proposal for establishment of a bilateral relationship with IUPAP was approved by the IUPAP Council and Commission Chairs Meeting in Mumbai, India on Oct. 2004. Since then, IOMP has been

recognized as an Affiliated Commission (AC.4) and will be referred to as the “International Commission on Medical Physics (IComMP)” within IUPAP Organization. Whereas within IOMP Organization a Liaison Committee on IComMP was formed (2003) to facilitate the cooperation of the medical physicists with the physicists in IUPAP who had the same academic interests in research and education and hence provided many opportunities to promote medical physics in the large family of physical sciences. A summary list of (IComMP) membership is provided in Table 23 at IOMP Website.

In 2005, an article “In Memory of Prof. John Cameron” was written in MPW Vol. 21, No.1, in honor of Prof. Cameron who was my mentor at the University of Wisconsin in Madison (UW-Madison). Of Scottish heritage, Prof. Cameron, was born and raised in a farm in Wisconsin in 1922. After serving in the US Army, he completed his B.S. in Mathematics (Univ. of Chicago-1947) and PhD (1952) in Nuclear Physics from UW-Madison. He taught for a few years at the Univ. of Sao Paulo, Brazil, and was hired as a physicist (1958) in the Department of Radiology at UW-Madison. He established a radioactive isotope research laboratory and collaborated on metabolic research projects with the clinical laboratories. He also studied radiation induced thermoluminescence – a phenomena that had been initially identified by Farrington Daniels in Chemistry Department. In 1960s Prof. Cameron developed the science of thermoluminescent dosimetry (TLD), which has had many applications in the monitoring of both treatment and diagnostic uses of radiation and is still being used worldwide as a dosimeter in the hospitals / clinics and Accredited Dosimetry Calibration Laboratories in measure radiation dosages to workers and patients. Prof. Cameron was also a pioneer in developing the instrumentation to measure bone density using iodine-125 as an external source. He invented the first bone densitometry device to detect and evaluate osteoporosis. This was the first application of digital radiography scanning photon beams, detecting and counting using a pulse height analyzer. There are now about 45000 such instrument in use worldwide. Prof. Cameron was also instrumental in founding the UW Bio-magnetism Laboratory, which detects weak magnetic fields produced by physiological activities. The signals could be used for diagnosis of disease and modeling of human brain including imagination and creativity that

are being researched with Functional Magnetic Resonance Imaging (fMRI) at UW-Madison.

Prof. Cameron was one of the founders of AAPM Organization and served as the 9<sup>th</sup> President in 1968. He also was one of the Founders of IOMP Organization and served as Secretary-General (1969-1976). In 1981 he established the first Medical Physics Department at UW-Madison and served as its first Chairman. Under his leadership the medical physics programs were expanded and many internationally known medical physicists were trained at the UW-Madison. I am grateful having had the privilege working with Prof. Cameron as his last Post-Doctoral Fellow at UW-Madison in 1981. Prof. Cameron's advice to me and other colleagues was "*If anything is worth doing, it is worth doing it badly*". "It doesn't have to be perfect, just get it to work!" More than once this was enough to spur on his students to "just do it" and not worry about perfection. Perfection could always come later if it is necessary.

Prof. Cameron was a forward thinker and progressive physicist. He soon realized that physicists can have a vital role in diagnosis and treatment of diseases. In 1960s he first advocated for the reduction of radiation to patients from medical x-rays equipment. By 1970 he realized that the main cause of excess radiation exposure was the poor quality of many x-ray images. He pursued his colleagues in developing simple but effective tools to evaluate x-ray equipment. Consequently, in 1974, Prof. Cameron founded Radiation Measurements Inc. (RMI) as a nonprofit company to manufacture and sell these devices. The x-ray equipment in breast cancer facilities are currently being certified with user of these devices. In 1981 when RMI was sold to Dr. Charles Lescrenier, the money was used to establish Medical Physics Publishing Company. At the sunset of his life (1922-2005) Prof. Cameron welcomed thought provoking controversial scientific subjects. His most recent efforts were to undo "radiation phobia" by strongly opposing Linear No Threshold (LNT) model and informing the general publics of the potential benefits of radiation at low doses – The Concept of Hormesis. He said that the public were misinformed about the hazards of low level radiation and suggested a practical radiation unit BERT (Background Equivalent Radiation Time) describing the diagnostic exposures to the public. in terms of background radiation. Lastly, in addition to be an incredibly scientifically gifted physicist, Prof. Cameron was a great educator with a sense of humor. He had

the ability to present scientific concepts in a lucid and humorous manner that even a layperson could understand and enjoy them. He was a very generous, openhearted and optimistic individual, who took joy in educating people in US and developing countries alike. He donated many QC tools, books, and journals to developing countries. His support and empowerment of female medical physicists at UW-Madison and other institutions, his selfless energy, and his dedication to help medical physicists everywhere were some reasons that I got involved in serving AAPM and IOMP. Prof. Cameroon has received many honors, including Coolidge Award , AAPM highest award in 1980, and first Marie Sklodowska-Curie Award, IOMP highest award in 2000. For those of us who had the privilege to know Prof. Cameroon personally, we miss his friendship, humility, and dry sense of humor. The legacy of Prof. Cameron is also reported by Prof. Kwan Hoong Ng in Medical Physics International Journal, Vol. 7, No. 1 (2019):

<http://www.mpijournal.org/pdf/2019-01/MPI-2019-01-p045.pdf>

In 2005 Prof. Slavik Tabakov, Chair of Education and Training Committee (2000-2006) received First International Prize for Education and Training – The European Union Leonardo Da Vinci Award as reported in MPW, Vol.21, No. 2. During the period 1995-2001 the project Consortium EMERALD (Emerging Mental Health Systems in Low- and Middle-Income Countries) developed the first structured training and e-Learning materials on Medical Physics for X-ray Diagnostic Radiology, Nuclear Medicine, and Radiotherapy. These materials are now used in over 65 countries. The success of EMERALD led to a new international project for developing e-learning materials on Ultrasound and Magnetic Resonance Imaging Technology (EMIT). Following the success of EMERALD and EMIT, a Digital Dictionary of terms covering the whole field of Medical Imaging was developed. The Dictionary included more than 3000 terms and cross-translations to/from English, French, German, Italian, Swedish, Spanish, Portuguese, Persian, Polish, Thai, Bengali, Malay, Bulgarian, Hungarian, Estonian, Lithuanian, Latvian, Czech, Romanian, Greek, Turkish, and Arabic. Slovenian, This led to its nomination in mid-2004 for the prestigious inaugural award for education of the European Union - Leonardo Da Vinci Award. Without doubt this Award gave a big boost to our profession. More details

about these programs is written in MPW Vol. 24, No.2 (2008) by Prof. Slavik Tabakov, EMITEL Coordinator and the Dictionary can be used from:

[www.emitdictionary.co.uk](http://www.emitdictionary.co.uk) and [www.emitel2.eu](http://www.emitel2.eu)

IOMP *first* "Strategy Planning Document (2006-2012) - Way Forward" was initiated and prepared toward the end of my presidency. It was to be approved by the IOMP Council at the WC-2006 in Seoul that I could not attend as reported in my last President's Message "From Sydney to Seoul" in MPW Vol. 22 (2), 2006. Another document of interest that was initiated by Prof. Barry Allen, IOMP President and was published in MPW Vol. 24, No.1 (2008), is "Bill of Rights for Scientists and Engineers". This document was prepared by Prof. William Hendee, Chair of IOMP Publication Committee. Another document of interest that was published in the same MPW by Prof. Hendee is "Plagiarism". Both of these documents provide valuable guidelines for "code of conducts" for scientist and engineers: [https://www.iomp.org/wp-content/uploads/2019/02/23-mpwjune2008\\_0.pdf](https://www.iomp.org/wp-content/uploads/2019/02/23-mpwjune2008_0.pdf)

In MPW Vol. 24, No.2 (2008) there is an article written by Dr. Cari Borrás, Chair of Science Committee reporting on the percentage of female medical physicists which was highest (31%) in European Federation of Organizations for Medical Physics, followed by Latin America Medical Physics (26%) and Asia-Oceania Federation of Organizations for Medical Physics (25%). In this article, Dr. Borrás discussed achievements of Women in Medical Physics starting with Marie Curie being the first medical physicists who received Nobel Prize in 1903 and in 1911 followed by her daughter, Irene Joliot-Curie who received Nobel Prize in 1935. For more information about Marie Skłodowska-Curie's achievements, see my 3-parts reports (I, II, III) that were published in MPW, Vol. 14, No.1 (1998), MPW Vol. 14, No.2 (1998) and Vol. 15, No.1 (1999) respectively. I would like to express my gratitude for receiving Marie Skłodowska-Curie Award, at the WC-2009 in Munich, Germany. Moreover, I was overjoyed to be invited by Prof. Helene Langevin-Joliot-Curie, Marie's granddaughter to visit Marie's Laboratory and Curie Museum in Paris (2009). Lastly, I was delighted to be invited by Prof. Marta Wasilewska-Radwanska to go to Krakow, Poland to celebrate our Organization's first International Day of Medical Physics in November 7, 2013. This day was chosen to commemorate Marie Curie's birthdate and I was so happy to visit Curie

Institute and Marie Curie's birthplace in Warsaw which is now being kept as Curie's Museum.

At WC-2009 in Germany, the Executive Committee of IOMP decided to publish MPW electronically as of 2010. The announcement was made in last issue of MPW, Vol. 25, No.2 by Prof. Fridtjof Nusslin, President. Thus, as of June 2010, the first issue of eMPW Vol. 1, No.1 was published under leadership of Prof. Donald Frey, Editor. I like to point out that in eMPW Vol. 1, No.2 (2010) an article was written by Prof. Colin Orton and Prof. Oskar Chomicki in remembrance of Prof. Keith Boddy (1937-2010) who served as IOMP President (1994-1997). Under his leadership, IOMP initiated Regional Organizations (there are now six regional organizations) and he aggressively pursued designation of Medical Physics as a profession recognized by the ILO. He also increased IOMP national society membership by about 20%. Throughout his life, Prof. Boddy provided support and encouragement to the officers of new IOMP member countries and secured financial help for their projects. In addition, Prof. Boddy aggressively attacked the problem of breaking away from IFMBE during first months of IUPESM President. He personally contacted the Executive Director of International Council of Scientific Union (ICSU) to pursue full membership for IUPESM that was achieved in 1999. Prof. Boddy started his career in radiation safety and in 1978 he became a medical physicist when he was appointed as Head of the Regional Medical Physics Department in Newcastle, England, where he spent the rest of his working life until retirement in 1997. Prof. Boddy received numerous honors including the Institute of Physics (IOP) Glazebrook Medal (1992) and the IUPESM Award of Merit (2000). For those of us who had the privilege to know Prof. Boddy personally, we miss his friendship, humility, and dry sense of humor. When he completed his three years as IUPESM President, he said "*Becoming your President made an old very happy. However, the Presidency has been eventful that it has made a happy man very old*".

In 2012, with publication of the 3<sup>rd</sup> Vol. of eMPW under leadership of Dr. Virginia Tsapaki, Editor and Dr. Magdalena Stoeva, Associate Editor, the format of eMPWs became similar to that of the MPWs. In eMPW Vol. 3, No.1 (2012), Dr. KY Cheung, President, announced the official release of Policy Statements No.1 on "Medical Physicists: Role and Responsibilities" and No. 2 on "Basic Requirements



for Education and Training of Medical Physicists". Full text of these Policy Statements that provided guidance on definition and role and responsibilities of medical physicists and on the minimum requirements on their education and professional training were also published in this eMPW Vol. 3, No.1. The success of WC 2012 in Beijing, China was also reported by IOMP President in this issue. Similarly, the success of the First Middle East Federation of Medical Physics (MEFOMP) Workshop and Conference in Shiraz University of Medical Sciences (November 2011) was reported by Mr. Ibrahim Duhani, President of MEFOMP. In this issue, the guidelines on medical physics certification was reported by Dr. Raymond Wu, Chair of Professional Relations Committee. This PRC used to be called Developing Countries Committee (DCC) up to 1999. Per Dr. Wu report, medical physics certification will be managed by the International Medical Physics Certification Board (IMPCB), an organization independent of IOMP and the full text of the guidelines is available at [www.ICPCB.org](http://www.ICPCB.org).

In 2012, Prof. Colin Orton, Prof. Slavik Tabakov and myself recognized the need for establishing a committee to collect and preserve IOMP history in a comprehensive manner for the benefit of future medical physicists worldwide. This was especially essential since our Organization did not have a permanent office and EXCOM would change every three years. All IOMP documents that were kept in various files and boxes and were shipped and handed over to the next Secretary-General had to be examined. Consequently, a History Sub Committee was established in 2009, and I served as the Chair. I reported in eMPW Vol.3, No.1 (2012), on the historical data that we had collected and compiled (Tables 1-27). Most of these Tables were later updated by Slavik Tabakov in 2019 and are now available at the IOMP website: <https://www.iomp.org/historical-tables-prior-2019/>

In 2012, Dr. Kin Yin Cheung, President, reported on his activities in eMPW Vol. 3, No.2. Of particular importance was announcement of celebration of IOMP 50<sup>th</sup> anniversary in conjunction with the 20<sup>th</sup> ICMP (International Conference on Medical Physics ) to be held in Brighton, UK in Sept. 1-4, 2013. The theme for ICMP-2013 was "New Horizons – Global and Scientific". In this issue Prof. John Damilakis,

Chair of Education and Training Committee announced the establishment of International Day of Medical Physics (IDMP), to be celebrated annually on Nov. 7 in honor of Marie Sklodowska-Curie, Birthday on Nov. 7 (1867). On this date, Marie Curie, known for her pioneering research on radioactivity was born in Poland. The first IDMP was to be celebrated worldwide in Nov. 7, 2013.

In 2012, IOMP launched a new professional journal called "Medical Physics International (MPI)" under leadership of Prof. Slavik Tabakov (UK) and Prof. Perry Sprawls (USA) in close collaboration with MPW. The new journal that was announce in eMPW Vol. 3, No.2, 2012 will be an open access, distributed to all 20,000 IOMP members as a free e-journal. The MPI will address specifically professional and educational/training of medical physicists and will be a bi-annual publication with its first two issues were planned for March and August 2013. Up to date, there are 4 Volumes of MPI Journal that are available at IOMP Website:

<https://www.iomp.org/medical-physics-international-journal/>

In 2012, IOMP also announced establishment of a new category of Awards and Honors, known "Fellow of IOMP (FIOMP)" to honor persons who have had outstanding contributions to Medical Physics, IOMP and its regional organizations over a significant period of time. This award aims to encourage more medical physicists to be involved with IOMP in support of its services and activities in the international development of medical physics. Prof. Tomas Kron, Chair of Awards and Honors Committee reported in eMPW Vol. 3, No. 2 (2012), that the recognition of FIOMP colleagues will be during IOMP celebration of its 50<sup>th</sup> Anniversary at ICMP-2013 in Brighton UK,

In 2013, Dr. KY Cheung, IOMP President elaborated on FIOMP awards and wrote in eMPW Vol. 4, No.1 (2013) that protentional FIOMP colleagues can be nominated to the Chair of Awards and Honors Committee by Officers and Committee Chairs/Members of IOMP and its Regional Organizations. Moreover, Dr. KY Cheung announced on preparation of IOMP Policy Standard No. 3 on risk of medical imaging that was being developed by Prof. Bill Hendee, Chair of Science Committee. Prof. Hendee reported that this policy statement addresses predictions of induced cancers and cancer deaths in a population of patients exposed to low doses (<100

mSv) of ionizing radiation during medical imaging procedures. As a matter of fact, the theme chosen for the first IDMP was “Radiation Exposure from Medical Procedures: Ask the Medical Physicists” as reported by Dr. John Damilakis, Chair of Education and training Committee in this issue of eMPW.

During celebration of IOMP 50<sup>th</sup> anniversary in conjunction with the 20<sup>th</sup> ICMP (International Conference on Medical Physics ) in Brighton, UK (2013) a list of 50 medical physicists who made outstanding contributions over the last 50 years was announced and reported in eMPW, Vol. 4, No. 2 (2013). It should be noted that some of the medical physicists in this list had no contribution in advancement of IOMP goals and mission in the past 50 years.

In eMPW, Vol. 5, No. 1 (2014) there are few articles of interest. To name a few is a report by KY Cheung, President on radiation safety issues in the clinics, the ALARA (As Low As Reasonably Achievable) principle and the large variation in regulatory requirements on radiation shielding. The formation of the IOMP Women subcommittee (IOMP-W) was described by Prof. Magdalena Stoeva, Associate Chair of IOMP-W Group: [www.iomp.org/IOMP-W](http://www.iomp.org/IOMP-W) The main objective of this Group was directed toward popularizing the role of the women in medical physics and encouraging female medical physicists to advance in this profession. A new award was proposed by Prof. Kron, Chair of Awards and Honors Committee for persons who have contributed significantly to the objectives of IOMP without actually practicing as a medical physicist themselves. They will be recognized as “Honorary Member of TOMP (MIOMP (Hon) for short. Lastly a report was provided by Dr. Evangelia Dimovasili, Technical Coordinator of Networks known as CERN-HERMES that was founded in 2012 from a core of CERN (European Organization for Nuclear Research) teams and 25 Hellenic Universities and Research Institutions from 11 European countries. CERN-HERMES is multidisciplinary in terms of scientific research and areas like Novel Imaging Detectors, Materials, Radiation Protection and Dosimetry, Radiation Tests and harness of electronics, Research on radioisotopes for various applications, Scintillating Detectors for High Energy Physics (HEP) experiments. The Network also aims to act as a platform for transferring new technologies to Greece including establishment of a proton beam therapy center at the island of Crete. To advance the Network

objectives, Prof. Rolf Heuer, CERN Director General, established a new Office for CERN Medical Applications, whose Head was Prof. Steve Myers, former Director of Accelerators. This new office aims to bring all the diverse medical physics activities at CERN together under a single roof, ensuring that efforts are optimized and will promote networking with other laboratories engaged in the field of medical physics.

In eMPW, Vol. 5, No. 2 (2014), KY Cheung, President reports on the demand for more advanced and reliable radiation medicine services, particularly in radiation oncology and recognition of the important role of medical physicists in running such services. The joint efforts of the IOMP and its NMOs and Regional Organizations (RO) together with international organizations such as IAEA and WHO was emphasized. Dr. Madan Rehani, Secretary-General reported on the new version of Basic Safety Standards (BSS) that was released in 2014. This new BSS that was a replacement to the old BSS that was released in 1996 and was replaced by an interim version in 2011, is available at the IAEA website: [http://www-pub.iaea.org/MTCD/Publications/PDF/Pub1578\\_web-57265295.pdf](http://www-pub.iaea.org/MTCD/Publications/PDF/Pub1578_web-57265295.pdf)

A brief update on activities of Medical Physics College in the Abdus Salam International Centre for Theoretical Physics (ICTP), at Trieste, Italy was provided by Dr. Stoeva, Associate Editor of eMPW. In this issue, Dr. Ferid Shannoun, Scientific Officer of UNSCEAR (The UN Scientific Committee on the Effects of Atomic Radiation) reported on the latest Global Survey of Medical Exposure. The introduction of UNSCEAR’s on-line platform: [www.survey.unscear.org](http://www.survey.unscear.org) that can be accessed by registered persons, fosters secure submission, exchange and archiving of medical exposures. In summary, UNSCEAR’s surveys and evaluations have provided the scientific foundation for improving the basic understanding of the levels of radiation to which individuals are exposed and possible radiation-induced health effects.

In eMPW, Vol. 6, No. 1 (2015), Dr. Stoeva made her first report as Chair of MPW Board and noted on registration of MPW in the International Serial Number registry (ISSN 2313-4712). Prof. Tabakov took the Presidency from Prof. KY Cheung at WC-2015 in Toronto, Canada. He reported on newly established Regional Coordination Board (RCB) that will be

chaired by the IOMP President and the membership will include Vice-President, Secretary-General, and the Presidents of All Regional Organizations (RO) from Africa, Asia-Oceania, Europe, Middle East, South East Asia, South America and North America (AAPM/COMP). It was agreed that IOMP largest societies such as AAPM, COMP, and IPEM to organize refresher courses during the ICMP-2016 in Bangkok, Thailand. It was also agreed that EFOMP and MEFOMP to cooperate and provide organizational support to the colleagues in Africa (FAMPO). Dr. Virginia Tsapaki took the position of Secretary-General from Madan Rehani and made her first report in this issue. She indicated that the recently founded IOMP-W and gender survey were published in European Journal of Medical Physics: *physica medica.com*. Dr. John Damilakis, Chair of ETC reported on accreditation of educational institution using a model that has been given in the IAEA publication 56 entitled "Postgraduate medical physics academic programs". In this issue two informative interviews were conducted by Dr. Stoeva: One with Prof. Bill Hendee, recipient of the Harold Johns Medal (2015) and one with Prof. Colin Orton, recipient of Marie Sklodowska-Curie Award (2015).

At WC-2015, Dr. Simone Kodlulovich Renha became Chair of Awards & Honors Committee and she made her first report in this issue. She also reported on Women and Lung Cancer: Looking at the Problem More Closely. She stated that although breast cancer has been the leading cause of cancer death in women for many years, since 1987 it was surpassed by lung cancer. In summary Dr. Renha concluded that based on the clinical evidence, a lung screening counseling with low dose CT (LDCT) can prevent some lung cancer deaths. At WC-2015, the 2014 IUPAP Young Scientist Award was given to Dr. Jan-Bernd Hovener, Head of Hyperpolarization Research, University Medical Center in Freiburg, Germany. The 2015 IUPAP Award was given to Dr. Guerda Massillon-JL, from Instituto de Fisica, Universidad Nacional Autonoma de Mexico, Mexico. The report from the Publication Committee was provided by Chair, Dr. Tae Suk Suh. He stated that in collaboration with CRC Press, the PC has worked jointly with Dr. Raymond Wu, RPC Chair to access journals by HINARI libraries, which are mainly supported by WHO and widely used for developing countries. The HINARI Access to Research for Health Program was set up by the [World Health Organization](#) and major publishers to enable developing countries to access collections of

biomedical and health literature. There are up to 15,000 e-journals and up to 60,000 online books available to health institutions in more than 100 countries.

In eMPW Vol. 6, No. 2 (2015), Prof. Slavik, President wrote an article on Hungarian medical physicist and engineer, Dr. Nandor Richter who passed on Oct. 2015. Dr. Tabakov reported that IOMP has been accepted as Non-Governmental Organization to the WHO. Dr. Rehani, Vice-President reported on the amendments in Statutes and Bylaws that were approved by the Council at WC-2016 – providing affiliate statutes to second national Medical Physics Society without voting rights. A note of congratulations to Dr. Madan who received the 2015 Alliance for Radiation Safety in Pediatric Imaging Butterfly Award. Dr. Madan is a visiting scientist at the Webster Center for Advanced Radiation Research and Education, based in the Department of Radiology at Massachusetts General Hospital (MGH) in Boston. On Dec. 2015, the Academic Council of Medical University Plovdiv, Bulgaria bestowed upon Prof. Slavik Tabakov, IOMP President and Director of MSc program at King's College London, their Doctor Honoris Causa degree for his contribution to the development of medical physics in Bulgaria and Eastern Europe, and for the introduction of e-learning in the profession. The Rector Prof. Kostyanev and the Chair of Medical Imaging Prof. Velkova spoke about Prof. Tabakov's contribution to the profession and the University where he started his career in medical physics; installed the first Digital X-ray equipment in the country in 1984; established the first Digital Imaging Laboratory and organized the International Medical Physics Educational Centre with an associated MSc course, which still goes strong. The official ceremony was attended by more than 300 professors, lecturers and colleagues of Prof. Tabakov from Plovdiv, Sofia and other cities in the country. The success of the 3<sup>rd</sup> IDMP was reported by Dr. John Damilakis, ETC Chair. The theme of the event was "Better Medical Physics = Better Cancer Care in Radiation Oncology". The establishment of a new award known as IDMP Award was reported by Dr. Renha, Chair of Awards & Honors Committee. This award which will be given on the occasion of the celebration of IDMP is intended to give recognition to the medical physicists of each region who has made a significant contribution to promoting Medical Physics, including development of scientific work, improvements in patient care and/or contributions

for education and training in medical physics. The award will include an IOMP certificate, and a short Biography of the Awardee will be published in the IOMP Newsletter Medical Physics World. The report on the International Union for Physical and Engineering Sciences in Medicine (IUPESM) was provided by Dr. KY Cheung, President of IUPESM. He stated that the Union plays an important role in bringing together medical physicists and biomedical engineers from all parts of the world to exchange ideas on issues of common interest and to share their knowledge and research findings for the purpose of promoting human health through advances in science and technology in healthcare. The key agenda items in the IUPESM activities was the planning and organizing the World Congress in Medical Physics and Biomedical Engineering 2018 to be held in June 2018 in Prague, Czech Republic. In this issue President of International Radiation Protection Association (IRPA), Renate Czarwinski, provided a brief overview of the IRPA that was founded in 1964. In this issue an interview with Virginia Tsapaki was conducted by Guadalupe Martin, Medical Physicist, EFOMP representative for Spain, Hospital Universitario de Fuenlabrada, Madrid, Spain. It was stated that according to the policy of European Commission (EC) on women in science, "achieving equal and full participation of women in all scientific disciplines at all levels in the scientific job market" is a fundamental part of its mission. Furthermore, the EC gives a higher rate to EC project proposals that address the gender issue. For more information you can read the "She Figures" reports produced by the European Commission (EC). The reports are based on data collection undertaken every three years as a joint venture of the European Commission and the Helsinki Group on Women and Science. Lastly Prof. Colin Orton, President of International Medical Physics Certification Board (IMPCB) reported on the accreditation of national medical physics certification boards in Korea and Hong Kong.

In eMPW Vol.32, No.1 (2016), the theme of IDMP "Education in Medical Physics: The Key to Success" was announced by Dr. Stoeva, Chair of MPW Board. Dr. Takakov, President, also mentioned on the importance of Education for IDMP-2016. Dr. Takakov reported on the growth of our profession internationally is directly linked with the enlarged role of medical technology in healthcare, and related establishment of new educational and training courses in many countries. According to IOMP

statistics, at its establishment in 1963 the Organization included about 6000 medical physicists globally (predominantly in most developed countries). The growth of the profession in the first decade (1965-1975) had added about 2000 new professionals, and this growth is similar in the next two decades (1975-1985 and 1985-1995). However, after 1995 the growth per decade doubles (to 4000+) both in 1995-2005 and again in 2005-2015. During 2016 we have about 22,000 medical physicists worldwide (about 80% more specialists, compared with 1995). This double growth was underpinned by the early introduction of e-learning (starting with project Emerald – [www.emerald2.eu](http://www.emerald2.eu)). A report entitled "Collaboration is Key to Address Global Cancer" by Dr. Yakov Pipman, Chair PRC indicates shortage of medical physics especially in Low-Middle Countries (LMICs) led to creation of the Global Task Force on Radiotherapy for Cancer Control (GTFRCC) by the Union for International Cancer Control (UICC). A report published last year by this Task Force shows that addressing the global shortfall in radiotherapy could save millions of lives and, at the same time, boost the economy of poorer countries. The report projects that investing in radiotherapy services could bring up to \$365 billions of economic benefits to LMICs alone over the next 20 years. As the needs of Medical Physics expand, we are not likely to have the necessary resources to do it all. Therefore, IOMP should continue to work with all other bodies, including equipment manufacturers and vendors, in a way that complements their activities. The Chair of Publication Committee (PC), Dr. Tae Suk Suh reported that PC has organized three sub-task groups (TGs) for: (1) New book ideas and on-line access, (2) Medical physics history book, and (3) Utilization of IOMP facilities (IOMP website, eMPW, MPI). On behalf of PC, Magdalena Stoeva published a new book titled "Radiation Protection in Medical Imaging and Radiation Oncology" with Richard Vetter.

In eMPW Vol.32, No.2 (2016), Dr. Tabakov, President reported on the success of The International Day of Medical Physics (IDMP) in 2016 that was dedicated to Education and Training. He also wrote about initiation of a new activity "IOMP School", that was associated with the International Conference on Medical Physics, ICMP2016 in Bangkok. He also wrote about the first IOMP accreditation of an MSc course (the MSc in Medical Physics of the ICTP and the University of Trieste). This MSc course is uniquely dedicated to education and training of young colleagues from LMI



countries. A report on IOMP-W subcommittee was provided by Chair, Dr. Virginia Tsapaki. Per latest UNESCO Science Report “Women account for only 28 % of researchers across the world, with the gap deepening at the higher levels of decision-making. Women have less access to funding, to networks, to senior positions, which puts them at a further disadvantage in high- impact science publishing”. For these reasons, IOMP-W (<http://www.iomp.org/IOMP-W/>) objective is to increase women participation in the field of Medical Physics in order to deal with all matters relating to the role of women in medical physics scientific, educational and practical aspects. The Chair of Awards & Honors Committee, Dr. Simone Kodlulovich Renha announced the recipient of newly established John Mallard Award to Prof John Rowland Mallard at the University of Aberdeen, UK. The recipients of the IDMP Awards were Mr. Julio Pinuela (ALFIM), Dr. Sandra Guzman (ALFIM), Prof. Thomas Kron (AFOMP), Prof. Sarun Chougule (AFOMP), Mr. Ibrahim Duhani (MEFOMP), Dr. Abdalla Al-Haj (MEFOM), Prof. Anchali Krisanachinda (SEAFOM), and Prof. Kwan Ng (SEAAFOM). The elected FIOMP were Dr. Damilakis, Prof. Kron, Prof. Tae Suk Sub, and Dr. Virginia Tsapaki. Finally, the 2016 IUPAP Young Scientist Medal was presented for the first time to a colleague from Africa – Dr Francis Hasford from the Ghana Society of Medical Physics. In this issue there was An interesting report by Sean Edmunds, External Relation Manager of Institute of Physics and Engineering in Medicine (IPEM) about the UK’s Science for Patient Benefit going global. Prof. David Brettle, President of the UK’s (IPEM), initiated his idea in 2015 recognizing that medical physicists and engineers are “invisible army of workers”. This idea was backed by Prof. Sue Hill, Chief of Scientific Officer for England and she said: “The Science for Patient Benefit campaign highlights the amazing contribution scientists, medical physicists, engineers and technologists make to patient care daily through the diagnostic, therapeutic, rehabilitative and innovative services they provide. This inspiring initiative will demonstrate their critical role in delivering a modern healthcare service.”

In eMPW Vol. 33, No.1 (2017), Dr. Stoeva, MPW Editor noted that 2017 marks the 150th Anniversary of the remarkable Marie Curie and to celebrate this IOMP has dedicated IDMP 2017 to women. She quoted Marie Curie’s most famous citations: “We must believe that we are gifted for something, and that this thing, at whatever cost, must be attained”.

Followed by a statement that “Women can do anything, but Women and Medical physics are the perfect match”. There is also a comprehensive report by Dr. Guadalupe Martín Martín from IOMP-W Group about “Marie Sklodowska-Curie: a Woman Ahead of Her Time” which basically encompasses similar materials that I reported about Marie Sklodowska-Curie’s achievements, in 3-parts reports (I, II, III) that were published in MPW, Vol. 14, No.1 (1998), MPW Vol. 14, No.2 (1998) and Vol. 15, No.1 (1999) respectively. There was also a total of 7 interviews of women in medical physics: Dr. TSAPAKI VIRGINIA (by TRIANTOPOULOU SOTIRIA), MARÍA DEL ROSARIO PÉREZ, MD (by Sally Hawking), Dr. SIMONE KODLULOVICH RENHA (by TAINÁ OLIVIERI CHAVES), Ms. MELISSA MARTIN (by Ms. Nicole Ranger), Dr. Anchali Krisanachinda (by HATAIPAT JANTAWONG), Dr. Jenia Vassileva (by Desislava Kostova-Lefterova), Ms. Agnette De Perio Peralta (by Dr. Hasin Anupama Azhari), and Dr. Nuria Jornet (by Irene Hernandez Giron).

In this special issue there was a very interesting article reprinted from National Geographic (May 2013) by Jane Lee about “6 Women Scientists Who Were Snubbed Due to Sexism” These women were: **Jocelyn Bell Burnell** - who discovered pulsars in 1967, **Esther Lederberg** - a microbiologist who was best known for discovering a virus that infects bacteria—called the lambda bacteriophage—in 1951, while at the University of Wisconsin. **Chien-Shiung Wu** - who was asked (mid-1950s) by two theoretical physicists, Tsung-Dao Lee and Chen Ning Yang, to help disprove the law of parity. The law holds that in quantum mechanics, two physical systems—like atoms—that were mirror images would behave in identical ways. This milestone in physics led to a 1957 Nobel Prize for Yang and Lee—but not for Wu, who was left out despite her critical role. **Lise Meitner** – who work in nuclear physics led to the discovery of nuclear fission—the fact that atomic nuclei can split in two. That finding laid the groundwork for the atomic bomb. **Rosalind Franklin** – who used x-rays to take a picture of DNA that would change biology. Franklin's image of the DNA molecule was key to deciphering its structure, but only Watson, Crick, and Wilkins received the 1962 Nobel Prize in physiology or medicine for their work. **Nettie Stevens** – who performed studies crucial in determining that an organism's sex was dictated by its chromosomes rather than environmental or other factors.

In eMPW Vol. 33, No.2 (2017), Dr. Simone Kodlulovich Renha talks about “specificities of women health” such as increase use of tobacco among younger women, increase in HIV in women, increase mental health due to violence, increase violence against women, early marriage, motherhood in adolescent girls, maternal deaths, women with low income, indoor smoking, increase in chronic obstructive pulmonary disease (COPD), low birth weight or stillbirth, increased risk of becoming visually impaired - Across the world and at all ages, women have a significantly higher risk of becoming visually impaired than men. In the report of Taskforce 3 on Gender Equality of the UN Millennium Project (Final Report to the WHO Commission on Social Determinants of Health September 2007) we can also see another challenger faced by women: the gender inequality. Gender relations of power constitute the root causes of gender inequality and are among the most influential of the social determinants of health. The report also points out six approaches that can make a difference: (1). Address the essential structural dimensions of gender inequality; (2) Challenge gender stereotypes and adopt multilevel strategies to change the norms and practices that directly harm women’s health; (3) Reduce the health risks of being women and men by tackling gendered exposures and vulnerabilities; (4) Transform the gendered politics of health systems by improving their awareness and handling of women’s problems as both producers and consumers of health care, improving women’s access to health care, and making health systems more accountable to women; (5) Take action to improve the evidence base for policies by changing gender imbalances in both the content and the processes of health research; (6) Take action to make organizations at all levels function more effectively to mainstream gender equality and equity and empower women for health by creating supportive structures, incentives, and accountability mechanisms. It was noted that IOMP is attentive to all these particularities regarding to women health and has been working continually with many international organizations to contribute to the improvement of health care offered to the all population, taking in account the women special needs. In a report by Dr. John Damilakis, Chair ETC, described how “Medical Physics Enables Healthier Lives for Women. In particular he mentioned about two diagnostic imaging that have had grave effects in improving women’s health: X-ray mammography and dual-energy X-ray absorptiometry (DXA) that was first developed by Prof. John Cameron and James

Sorenson at UW-Madison in 1960s. Use of DXA has increased considerably during recent years. For this reason, application of radiation protection principles i.e. justification and dose optimization are necessary.

In eMPW Vol. 33, No.3 (2017), Dr. Simone Kodlulovich Renha, Chair of Awards & Honors Committee announced the winners of IDMP award [ Diana Feld (ALFIM), William Howell Round (AFOMP), Virginia Tsapaki (EFOMP), Taofeeq A. Ige (FAMPO), and Huda M. Al-Naemi (MEFOMP)] and the Fellow of IOMP award [Simone Kodlulovich Renha (ALFIM), Muthana Al-Ghazi (AFOMP), Agnes Peralta (SEAFOMP), Ahmad Ibn Seddik (AFAMPO), and Ibrahim Duhani (MEFOMP)]. This year’s IDMP day (Nov. 7, 2017) celebration in Jaipur started in pink morning with inaugural ceremony by lightening of lamp and remembering almighty, it is followed by garlanding the photograph of great Scientist Marie Curie. After garlanding, the day started with floral welcome of our eminent guest for the day Prof. Slavik Tabakov and Prof. John Damilakis, Dr. Virginia Tsapaki. After all inaugural addresses IDMP poster was released to spread awareness among general public.

In eMPW Vol. 34, No.1 (2018), there is a comprehensive report by Dr. Tabkove from June 2015-June 2018. He basically describes major activities that took place during his 3-year Presidency as outlined here: **Introduction** : The International Organization for Medical Physics (IOMP) now includes almost all Medical Physics Societies in the world, its members being more than 27,000 globally. Medical Physics is one of the corner stones of contemporary medicine and our colleagues take important part in the global advancement of healthcare. Over this period IOMP made a very good progress. During this period my IOMP ExCom colleagues worked very hard for the advancement of the profession - we stepped on the achievements of the previous IOMP terms of office; further developed these; added new activities, and prepared specific foundation for the future IOMP terms of office. **Regional Coordination Board (RCB)** - This new Board of the IOMP was formed immediately after the Council meeting in Toronto 2015, aiming to increase the cohesion and coordination between all IOMP Regional Organizations (Federations). **Scientific activities** Chaired by Prof. Geoff Ibbott - IOMP assessed and approved scientific activities in all continents. Major scientific contributions were made to the organization of the International Conference on Medical Physics in Bangkok, 2016 (ICMP2016), and

to the World Congress in Prague WC2018. **Education and Training activities** Chaired by Prof. John Damilaski - The existing educational sessions, associated with the ICMP and World Congresses were grouped in a new activity "IOMP School", which was launched at ICMP2016 in Bangkok, after this the School took place at the AOCMP2017 in Jaipur, and is now scheduled in Prague WC2018. **Professional activities** Chaired by Dr. Yakov Pipman - 4 new members were added to IOMP family, including the first Affiliated member. Various professional and educational activities were supported in all continents. About half of those were in close collaboration with the AAPM ISEP. **Publication activities** Chaired by Prof. Tae-Suk Suh - included almost all Editors of the main Journals in the profession. Additionally, the Publication Committee was closely involved with our commercial partner CRC Press, what resulted in the assessment of about 20 books and other publications, which IOMP members have at reduced price. **Awards & Honors Activities** Chaired by Dr. Simone Kodlulovich Renh - Apart from the many assessed applications for the existing IOMP Awards, 13 Fellows of IOMP were elected. New Certificates for the Presidents of Regional Organizations were introduced. Special Award Folders were made for various awards and honors. Most importantly, two new Awards were approved and launched: - IDMP Award – to be presented annually during IDMP to colleagues from all IOMP Regional Organizations (Federations) for promoting medical physics to a larger audience – introduced at 2015- 16; - John Mallard Award – to honor a medical physicist who has developed an innovation of high scientific quality and who has successfully applied this innovation in clinical practice - to be presented every 3 year during the ICMP – introduced in 2016 . **Medical Physics World Board activities** Chaired by Prof. Magdalena Stoeva – MPW continued 2 publications per year. Also, a Special Issue was produced related to Women in Medical Physics and another is planned for the Way Ahead. Another very important activity was the exchange of news between MPW and the newsletters of various societies and Regional Organizations (Federations). This was facilitated by the RCB and was very useful for the increased visibility of IOMP. **Journal Medical Physics International (MPI)** Chaired by Prof. Tabakov and Prof. Perry Sprawls – The MPI journal continued its regular publications (twice per year). The MPI web site statistics surpassed 10,000 visits per month – this way becoming one of the most read Journals in the

profession. **International Day of Medical Physics (IDMP)** Chaired by Prof. John Damilakis - the global celebrations of the International Day of Medical Physics (IDMP, 7 November). The main IDMP themes for the period were related to Radiotherapy, Education and Women in Medical Physics. These celebrations spread all over the world and increased greatly the visibility of our profession. To further strengthen these activities IOMP launched a special IDMP Award. The IDMP 2017, celebrating also the 150<sup>th</sup> birthday of Maire Sklodowska Curie, was celebrated by the IOMP ExCom, AFOMP and AMPI at AOCMP 2017 in Jaipur. The event was web-cast globally by the IAEA. In the same year the UK IPREM presented to UNESCO an application for our professional day IDMP to be considered as one of their supported global events. **Women Sub-Committee (WSC)** Founding Leader Dr. Virginia Tsapaki – WSC organized topical Workshops at ICMP2016 and WC2018. It also produced a sub-web site under IOMP, as well as a Special issue of MPW in 2017 and Posters for the International Women's Day. The impressive work of the WSC resulted in the proposal from the ExCom in near future a full Women Committee to be organized in IOMP. **EMITEL Encyclopedia and History of Medical Physics projects** Founding Leader Prof. Tabakov - The EMITEL Encyclopedia is used globally by many colleagues through its web site. Over the period the project went through an official update arrangement with CRC Press and the activity starts in 2018. The History of Medical Physics project will also have its major activities starting in 2018 with the support of the History SC. **International Relations** Led by EXCOM Members - IOMP continued active international relations with IAEA, WHO, IUPAP, IMPCB, UNSCEAR, ISR, IRPA, MPWB and others. IOMP took part in a number of activities of IAEA – approved 3 IAEA publications in medical physics and led the large ICRPM Conference (Vienna, December 2017). Also, IOMP defended successfully its status of Non-Governmental Organization (NGO) to the WHO and co-organized a number of activities with WHO, as per the agreed collaboration plan. Over the period IOMP made two successful applications for funding to the IUPAP (through the IComMP) and organized two large Workshops for LMI countries. Support was also given to the successful start of the International Certification activities of the IMPCB. Exchange of Letters for cooperation was made with UNSCEAR. **Financial and Administrative activities** Treasurer



Prof. Anchali Krisanachinda - IOMP was in close contact with the UK IPEM to arrange its financial and tax status, what was completed successfully in 2016. IOMP also stabilized its electronic banking and organized a new digital documents archive. IOMP completes the period with positive budget balance.

**IOMP Legal Representation** - One of the most important activities over the period was the arrangement of the IOMP legal representation by its own structure – an IOMP Company. Special meetings and discussions were made for the purpose with Law and Finance companies. A new formula was successfully introduced – an IOMP Company, including all ExCom members. The members of the Company represent the interests and fulfil the objectives of the IOMP Council. This IOMP activity was discussed and approved by the RCB and by the Council (Dec 2017). The new Company was launched on January 1, 2018 with headquarters in the offices of UK IPEM, which hosts IOMP for the past 10 years. This action quickly proved very useful – initially for the renewal of our NGO status with WHO and the financial arrangements with CRC Press.

**Rules and Nominations activities** lead by Prof. Madan Rehani - Amendments to the IOMP Statutes were made related to the new IOMP Company. These were presented to the Council during the approval of this activity. The Nomination Committee was formed with the help of the RCB and smoothly passed all activities for the selection of the candidates for the new term of office.

**Personal Involvement** by Prof. Tabakov – I had close collaboration with all IOMP Committees, in particular: the chairing of the RCB; the organization of the Workshops with the LMI countries; the initiation of the IOMP accreditation activities; the co-organization of the ICMP2016; the founding of the “IOMP School”; the links with the CRC Press; the introduction of the two new IOMP Awards; the Co-Editing of the Journal Medical Physics International; the strong support for the IDMP celebrations and the International relations of IOMP; the direct involvement in two IAEA projects; the lead of the activities for IOMP legal representation; the overall chairing of the IOMP ExCom work and the newly created IOMP Company. The main tasks planned for this very intensive period (June 2015 - June 2018) were completed. Additional tasks were also introduced and most of them completed. During this term of office, the IOMP ExCom had 14 meetings (face-to-face and virtual) and several ad-hoc discussions. I was very happy to see the constructive, but also friendly, collegial atmosphere during these

meetings.

**Conclusion and Acknowledgements** by Prof. Tabakov - Being in the IOMP structures and rising through its ranks for 20 years, I have had the opportunity to witness and take part in the extremely intensive work of our Organization for the global development of medical physics. This could not have been possible without the incredible contribution of thousands of volunteers from the National Societies, Regional Organizations and IOMP Committees. I am very grateful to all these colleagues for their support and contribution to the IOMP objectives.

In eMPW Vol. 34, No.1 (2018), there was an extensive report about **IOMP Company** by Prof. Tabakov, Director of IOMP Company - The need of legal body representing IOMP and having an official Registration for the organization is very important for the IOMP and the profession as a whole. This is especially true in the present time, when such Registration is more and more often required. The discussion on this issue was initiated in the period 2009-2012 and was discussed at the IOMP Council meeting in Beijing (WC2012), resulting in resolution paving the way ahead in this direction. A Work Group (WG) was formed including Slavik Tabakov (Chair) Stephen Keevil and Sally Hawking. The Board of Directors of the IOMP Company consist of the five elected Officers of the IOMP Organization – i.e. President, Vice-President, Secretary-General, Treasurer and immediate Past-President. The Directors plus the elected Committee Chairs form the Company membership. The members of the Company represent the interests and fulfil the objectives of the IOMP Council. The Company objectives are the IOMP Organization objectives. The IOMP Statutes and Bylaws remain in place to govern the way the Organization will operate. As is our current practice, the IOMP ExCom will seek the advice of the Council for all important matters and will be responsible for implementing the decisions of the Council. When necessary this implementation will be realized through the IOMP Company. This will keep the existing ultimate authority of the IOMP Council whilst providing the legal representation of IOMP. The IOMP President (who will also be a Director of the Company) will present, on behalf of the Company, regular annual reports to the Council to keep it informed. The Company Articles of Association were made to allow the registration of this Company Limited by Guarantee in the UK (at the IPEM office in York, where is the IOMP head office at the moment). However, this does not in any way restrict IOMP from

relocating in the future should it be necessary. Installation of the IOMP Company Registration Plaque, was at IPEM, York, on April 2018.

In eMPW Vol. 34, No.2 (2018), Dr. Madan Rehani, President reported that during the past few months, we had International Day of Medical Physics (IDMP) as an important activity in which many countries participated. Seventy-two Letter of Understanding (LoU) were signed. A large number of countries have provided report of their celebrations and are available at: <http://www.iomp.org/idmp/index.php/activity>. A Nobel Laureate Professor Arthur B McDonald from Canada provided a message, in addition to messages provided by IAEA and WHO. He stated the International Commission on Radiological Protection (ICRP) is a prime body that enriches our professional life with recommendations on radiation protection. We all use principles set forth by the ICRP and the recommendations. ICRP publications are expensive and not affordable by most in low- and-middle income countries. ICRP has launched a Free the Annals drive. Moreover, the next International Conference of Medical Physics (ICMP2019) to be held in Santiago, Chile on 8-11 Sept 2019. He also mentioned that IOMP has an agreement with AAPM for 100 free electronic subscription to Medical Physics journal. He also wrote that ExCom is working on Strategic Plan for IOMP. General Data Protection Regulation (GDPR) created the need to develop of adapt norms. It was decided to have consistency between norms with IPEM and EFOMP. Lastly IOMP became a Special Liaison Organization (SLO) of ICRP. The IOMP Vice President, Prof. John Damilakis, reported on the history and activities of the International Union of Pure and Applied Physics (IUPAP) including objectives and mission of AC4 and International Commission on Medical Physics (ICoMMP) that has been established during my Presidency (2003-2006). The IOMP Past President, and Vice President of IUPESM reported on the history of IUPESM and its relationship with the International Council of Scientific Unions (ICSU), now International Council for Sciences (ICS) and in the International Labor Organization (ILO). The first goal was achieved in 1999 and the second one was achieved by publication of ISCO-2008). A very important activity, initiated by the IUPESM Secretary General Dr L Pecchia, was related to inclusion of our professions in the current research projects of the European Union. The meeting for this activity (October 2018, European Parliament, Brussels), included specialists from IFMBE

and IOMP. Mr. Ibrahim Duhani, IOMP new Treasure reported on his activities since the WC2018 in Prague; namely: 1. Receiving and reviewing the previous IOMP Financial Documents. 2. Processing and paying claims of the WC2018 Participants and other conferences (ExCom members, Awardees, invites,...) 3. Processing and paying invoices related to IOMP Administration fees. 4. Proposing a new strategy for ExCom conference participation and financial coverage. 5. Establishing a new Yearly Budget Excel Sheet showing all income and expenses projected for the year 6. Suggesting new ways to generate revenues from IOMP School, Workshop, Accreditation, and other means. 7. Following up new requirements of IOMP as a company with the Directors and our consulting agency. 8. Reviewing and preparing the NMO yearly membership invoices for collection. 9. Preparing the IOMP Budget for 2019. 10. Execution of other related tasks requested from IOMP President. Dr. Simone Kodlulovich Renha, Chair Awards & Honors Committee introduced the new members of the A&H Committee: Cyril Schandorf (Ghana), Pedro Ortiz (Austria), Steve Balter (USA), Patricia Mora (Costa Rica), Eliseo Vano (Spain), Leif Schröder (Germany), Keiichi Akahan (Japan), Huda M.Al- Naemi (Qatar), Jim Thruston (UK), Thomas Kron (Australia), and Melissa Carol Martin (USA). She also named the IDMP-2018 Awardees: Jamila Salem Humaid Ali (MEFOMP), Renato Padovani (EFOMP), Kavuma Awusi (FAMPO), Hasin Anupama Azhari (AFOMP), María Ester Brandan (ALFIM), and Caridad Borrás (AAPM).

In eMPW Vol. 34, No.2 (2018), there was a report by Dr. David Brette, Past President of Institute of Physics and Engineering in Medicine, Head of Medical Physics and Clinical Engineering, Leeds Teaching Hospitals NHS Trust, United Kingdom who lunched "Little Linac" project. He said the aim of the project is simple: "To give every child having radiotherapy in the UK a free kit of play bricks which, when built, make a model of a linear accelerator to help ease their anxiety around having radiotherapy, through play." This project is aimed at 1,500 and 1,700 children under the age of 16 who develop cancer in the UK. Through the power of social media, IPEM's Little Linac has become known across the world in a very short space of time. The office has received orders for the kits from far and wide, including Australia, New Zealand, Mexico and even Peru, so our Little Linac is not only helping children in the UK but is making a difference to children's lives right around the world. Dr. Simone

Kodlulovich Renha, W-IOMP wrote an article about Fight against breast Cancer: Let's think what we can do to minimize risks!. Dr. Yakov Pipman, Chair of Professional Relations Committee welcomed the new committee members (2018-2021): George Felix Acquah, Ghana/ West Africa Whitney Coulor, Surinam/Central America /Caribbean, Shigekazu Fukuda, Japan/ Asia, Rabih Hammoud, Lebanon / Middle East Xiance Jin, PR China/Asia, Dimitris Mihailides, USA/ North America Howell Round, New Zealand/ SE Asia and Dario Sanz Argentina/ South America. He described numerous activities of PRC for 2019 onward.

In eMPW Vol. 35, No.1 (2019), Dr. Stoeva, Editor of MPW reported that MPW turns 35 years old this year. In recognition of Medical Physics World's contribution to medical physics worldwide, IDMP 2019 is also dedicated to MPW. This year's theme "It's a Medical Physics World!" is a reference to the enthusiasm of the pioneers who established MPW 35 years ago and to everyone who served MPW and turned to MPW for the latest updates during all these 35 years. Medical Physics World is now an integral part of the new IOMP website [www.iomp.org/mpw](http://www.iomp.org/mpw). MPW has always been a tribune to announce the latest news and it will continue to bring to your attention the most recent news from IOMP, the ExCom, regional organizations, hot topics from the world of medical physics, events report and announcements. Dr. Madan Rehani, President reported on his recent activities including publication of Newsletters' namely IOMP Newsletter issue # 1 issued in mid-April 2019 and IOMP Newsletter Issue # 2 issued in mid-June 2019. Dr. Tabakov reported on the statues of the IOMP Project "History of Medical Physics". He wrote Medical Physics is now an inseparable part of contemporary medicine. One of the aims of the

project "History of Medical Physics", which was launched in 2016, is to show the contributions of our profession to medicine, as well as to trace the global development of medical physics. In the first Special Issue of our Journal Medical Physics International (MPI, April 2018) we included selected chapters of this large project – the development of X- ray tubes (by R Behling) and Radiographic detectors (by P Sprawls), plus the first steps of e- learning in the profession (by S Tabakov). The Second Special Issue of MPI (June 2019) continues along this line, showing the development of fluoroscopy (by S Balter) and mammography (by P Sprawls) and their major role in medical diagnosis. The professional development of medical physics workforce is another cornerstone of the project. Back in December 2017 we published in MPI a large survey of Medical Physics in the Region of MEFOMP (led by A Niroomand-Rad, S Tabakov, I Duhaini et al), and in May 2019 we published the first survey related to Medical Physics in Central America (led by W Chanta, R Montezuma and P Caricato). The whole MPI issue of May 2019 had an accent on the countries from the Region of ALFIM, logically related to the coming ICMP 2019 in Chile. Our next issue of the MPI Journal (Dec 2019) will focus on the professional development in the FAMPO Region. Dr. Simone Kodlulovich Renha, Chair Awards & Honors Committee wrote on the winner of IUPAP-2018 award by Kuo Men from China and Jon Mallard Award 2019 by Prof. Thomas Rockwell Mackie, nominated by AAPM. Lastly, I was saddened to read an article by Prof. Tabakov regarding passing of Prof. Marta Wasilewska Radwanska (1938-2019). Marta was leader of one of the first University courses in Medical Physics in Poland. She was a good friend of mine and an exceptional person. She invited me to Poland (2013) for celebration of the first IDMP in Krakow. May she rest in peace.



# Medical Physics around the world via the Internet – The original EMPW

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As part of the information revolution on the Internet, Electronic Medical Physics World (EMPW) made its debut in September 1996 to serve the world community of medical physicists. EMPW was inaugurated with the late Prof. John Cameron as the Honorary Editor, Prof. Larry DeWerd as the Vice Honorary Editor, and Kwan Hoong Ng as the Associate Editor. It was hosted by the web server of the University of Wisconsin, Madison, Wisconsin. EMPW served several purposes: to provide information, as a forum for professional discussion, and as an educational tool. As an information source,

EMPW served as the home page for the IOMP (fig. 1). As a news source it aimed to supplement the hard copy publication Medical Physics World (MPW), which continued to be sent to all medical physicists around the world. EMPW made information easy to keep up-to-date and to locate. EMPW representatives from various regions and countries collaborated by providing information on their countries/ regions and editing the various sections (fig. 2).

EMPW also provided links to medical physics societies, such as the AAPM, IPEM, and other national organizations. As an education resource EMPW initiated 'Ask Your Medical

Physicist', whereby readers could submit questions to be answered by a panel of 'experts' (fig. 3,4). These questions and answers were edited and archived. 'Medical Physics Books & Journals Online' (fig. 5) provided links to various online books and journals as well as selected softcopies made available by the publishers or authors. EMPW also had a 'Commentary' section whereby readers could voice their opinions and observations on professional and educational topics in medical physics. The section on 'Medical Physics Graduate Students' provided a forum for them to network and interact with each other.

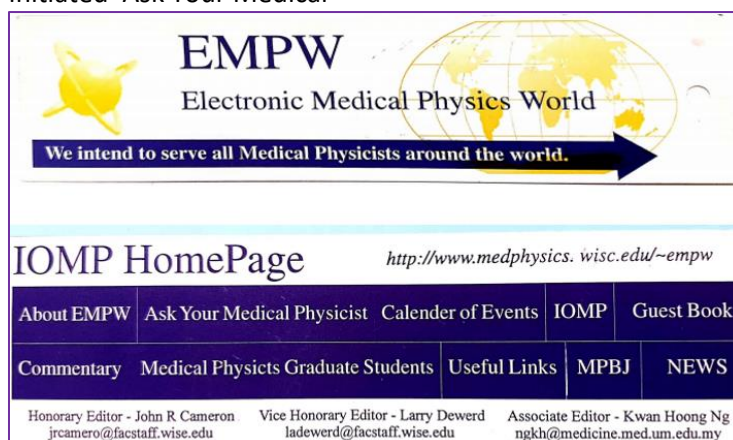


Fig. 1. Screenshot showing the link to EMPW from the IOMP Home Page.

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Fig. 2. Screenshot showing the contributors to EMPW.

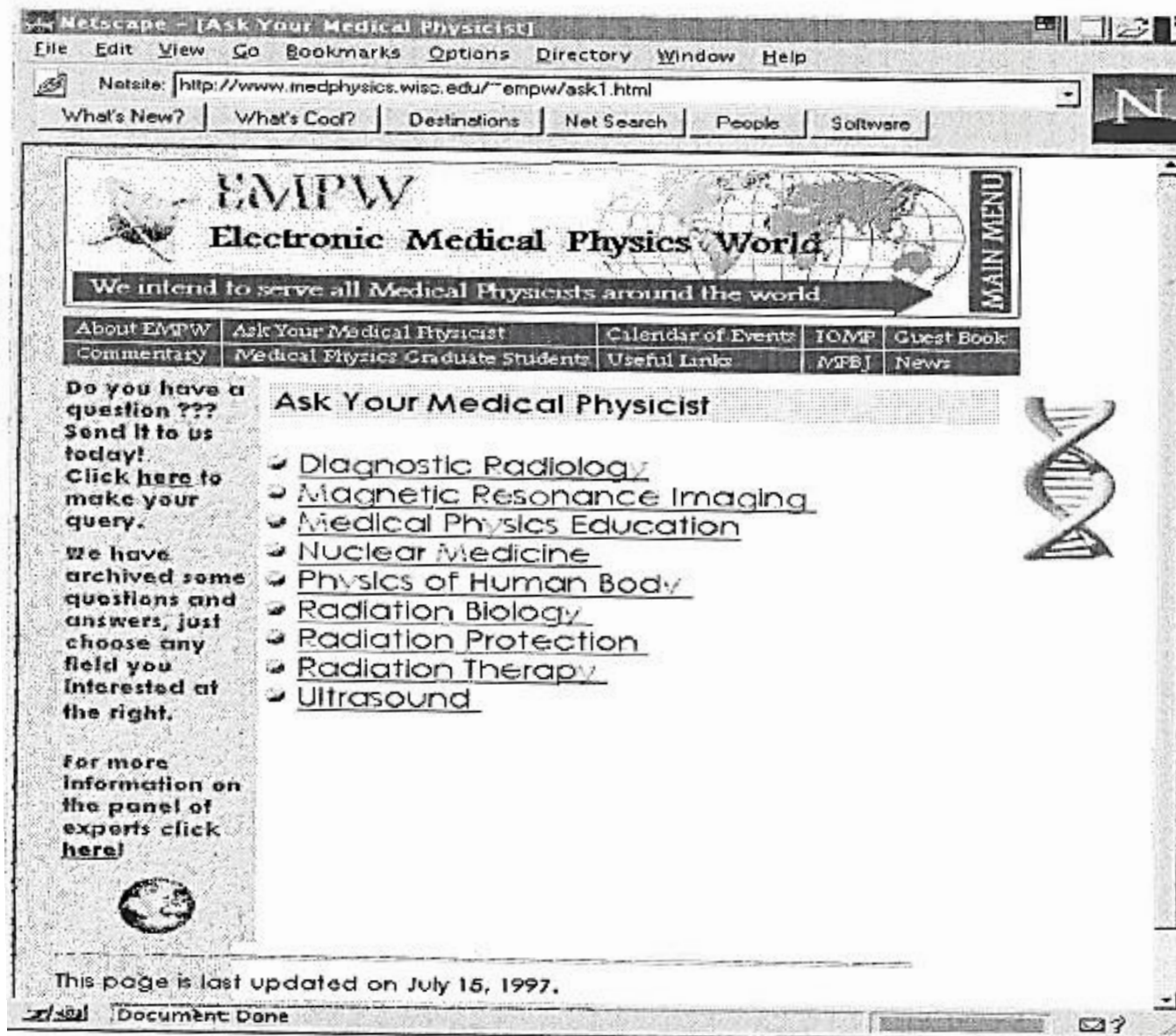


Fig. 3. Screenshot showing the “Ask Your Medical Physicist” home page.



## So We Decided to Call It Medical Physics World...

An interview with Colin G. Orton,  
awarded the Marie Sklodowska-Curie award of IOMP, 2015



Dr. Stoeva: *How did you start your career in Medical Physics?*

Dr. Orton: In the first place, let me tell you how I got involved in Medical Physics at all. I had never heard of Medical Physics when I actually finished up getting into a Medical Physics program. I thought I was getting into a Radiation Physics program, because I wanted to be an atomic physicist. That was what I thought was exciting. My professor who taught me atomic physics at university was a great teacher and a Nobel Prize winner. After I finished my degree I asked him how I might get into atomic physics research, and he referred me to a friend of his – Joseph Rotblat who was a professor in Radiation Physics in London University. In fact Joseph Rotblat himself later won the Nobel Peace Prize.

When I interviewed with Professor Rotblat (we called him Prof., by the way), he offered me an opportunity to do some research with him. At the same time he wanted me to do a Master's degree that turned out to be a Master's degree in Medical Physics. It was called Radiation Physics, but it was definitely Medical Physics. This is how I got involved with Medical Physics.

Dr. Stoeva: *What are your most important accomplishments?*

Dr. Orton: My first job after finishing my M.Sc. was teaching in the department while working on my Ph.D., and then I continued on as an Instructor, but I was still looking for a real job, where I could do some teaching and something useful too in addition. I saw on the noticeboard

at the British Institute of Radiology (they were having their annual meeting), that a radiation oncologist from New York University was looking for a chief medical physicist. I applied, just to practice being interviewed, thinking I would never have any chance to get the job since I had no clinical experience as a medical physicist. He interviewed me and then, to my amazement, asked me what he had to do to persuade me to go to New York and be his chief medical physicist. I just said "Make me an offer I can't refuse". He looked me in the eye and said "I hope you don't mind, but I asked your chairman how much money you make as an Instructor in the university". I said of course I did not mind. He offered me five times what I was earning then, so this is how I became a medical physicist.

The very first day that I sat on my desk in New York, the department radiobiologist entered my office and said: "Colin, I hope you don't mind, but I hate teaching and we have to teach the residents. I'd rather spend my time in the lab. Would you be interested in teaching radiobiology?" I had had a course in radiobiology and had done some work with the radiobiologists in London, so I thought a little bit (maybe 10 seconds) and I said: "OK, I'll do it". And this is probably the most significant change I made in my career, because from then on every year I taught radiobiology to residents, to technologists, to physicians, and to medical physicists. I probably taught radiobiology in 50 courses, maybe 100. Immediately after starting to teach radiobiology I realized there were significant radiobiological problems that had to be solved. One of them at that time was a new concept known as Nominal Standard Dose to determine what dose to give in courses of fractionated radiotherapy. I was teaching it, but hardly any of the residents could understand what I was talking about. First of all the equations were fairly complicated and you needed a slide rule to solve them. None of them knew how to use a slide rule. We did not have pocket calculators. So I decided to simplify the method and that started a life-long interest in biological modeling and simplifying biological models, so people could use them.

Dr. Stoeva: *How did you start with your involvement in the IOMP?* ▶

▶ Dr. Orton: I did attend the 1976 World Conference on Medical Physics in Ottawa, but I was not involved in the IOMP then at all. The next World Conference I attended was actually one of the first World Congresses in Hamburg. Larry Lanzl was the incoming IOMP President. He came to me and asked me if I would help him with the new newsletter that he was starting to communicate between council members; would I be the managing editor and develop ways of supporting it financially amongst other things. My first thought was: "We can't call it the IOMP Council Newsletter. I am never going to be able to get financial support and advertising for that." So I decided to call it Medical Physics World. I went out looking for sponsors and people to advertise in it and it soon became obvious that the sponsors wanted a much wider audience than just the 60 or 70 council members. We opened it out to the entire membership and I was appointed the Editor. Soon after I started that, the Secretary General of IOMP got sick. There was a World Congress coming up in 1988 and he was not going to be able to work on that, so he asked me to be the acting Secretary General for the upcoming World Congress in San Antonio, where Council elected me the next Secretary General.

Dr. Stoeva: *What are your biggest challenges at the moment?*

Dr. Orton: I don't really have any challenges right now. I retired officially about 12 or 13 years ago. I was still editing the journal Medical Physics at that time. I am not doing that anymore, but I am still the Moderator of the Point/Counterpoint series. That's certainly a challenge to get new ideas. I just got one five minutes ago at this

Conference with somebody for a good P/CP debate. You have to be coming up with good ideas for interesting debates. This is probably my biggest challenge right now.

Dr. Stoeva: *What are the 3 most important advices you would give to young medical physicists?*

Dr. Orton: Get involved. Look for things that need to be solved. People will benefit from your expertise if you put some effort into it. Get involved with your societies. As soon as I arrived in America I got involved with the local AAPM Chapter and within about a year I was elected President. Within a year of that I was selected to be the Editor of the AAPM newsletter, which at that time was called the Quarterly Bulletin, which later evolved into the journal Medical Physics. Just get involved and it is a lot of fun.

Dr. Stoeva: *What are you doing in your free time?*

Dr. Orton: I try to keep involved in teaching, moderating the Point/Counterpoint series in Medical Physics. I still review papers for the journal, still give some lectures here and there, and then I just have fun and relax playing golf, badminton, and doing some hiking. Life is good!

Dr. Stoeva: *If you were in my position what question would you ask yourself and what would you answer?*

Dr. Orton: How are you enjoying being involved in the IOMP?

It is fascinating, you meet lots of new exciting people and give interviews like this one. ◀



# Calendar of Events: Some Innovations in Medical Physics during the last 35 years

Dr. Ibrahim Duhaini

Calendar Editor Medical Physics World



Medical physics have been developing rapidly over the last century. Below is a timeline of some important events and innovations in many medical physics areas from during the last 35 years.

## **A. Medical Imaging:**

### 1. CT Scanner:

CT Scanners became accessible in the 1980's but portable CT Scanners became popular in the 1990's, different generations of CT scanners rose from first generation to the 8<sup>th</sup> generation, reducing time of image acquisition, and increasing resolution by changing form and position of detector rings.

### 2. MRI:

In 1983, the first MRI machine was present in St Bartholomew's Hospital, and used for medical applications.

In 1997, Jürgen R. Reichenbach, E. Mark Haacke and coworkers at Washington University developed Susceptibility weighted imaging.

## **B. Nuclear Medicine**

Although the concept for PET scanner was stated around 1950, yet the first PET scanner was invented at around 1970, circular or cylindrical array of detectors was the logical next step in PET instrumentation.

In the 1980s, the development of single photon emission computed tomography (SPECT) was the establishment of the field of nuclear cardiology.

In 1998 the first PET/CT prototype by D. W. Townsend from University of Pittsburgh was invented.

From 2000, PET/CT imaging is now an integral part of oncology for diagnosis, staging and treatment monitoring.

From early 2011 a fully integrated MRI/PET scanner is on the market.

## **C. Radiation Therapy:**

- ✓ In 1980's, Linear accelerators were acquired
- ✓ In 1991, Dose painting and dose sculpting was developed.
- ✓ In 1998, Computer aided Brachytherapy was developed.
- ✓ In 1999, IMRT was used in treatment of breast cancer.
- ✓ In 2003, IMRT for prostate cancer was shown to improve outcomes
- ✓ In 2008, IMRT for spine metastases shown effective for spine metastases
- ✓ In 2009, High dose stereotactic surgery developed
- ✓ In 2010, SHARP introduced to treat prostate cancer
- ✓ In 2012, Radiation and Immunotherapy synergy explored
- ✓ In 2013, Proton therapy used for delicate tissues

There are more technologies and techniques that are used in the medical field than what is mentioned in the above information. But it can be concluded that the knowledge in this field in the last three decades has been increasing dramatically and new technologies are being established to serve the humanity; and the best is yet to come.



# 35 YEARS IOMP MEDICAL PHYSICS WORLD



1984-2019

eMPW [iomp.org/MPW](http://iomp.org/MPW)

We acknowledge the contribution of the Medical Physics World Editors and Editorial teams, to mark the 35th Anniversary of the IOMP Medical Physics World bulletin and for their outstanding contribution to IOMP, regional organizations, national organizations and medical physicists worldwide.



**Lawrence H. Lanzl**  
MPW Editor 1984-1985



**Colin G. Orton**  
MPW Editor 1986-1988



**Richard L. Maughan**  
MPW Editor 1988-1992



**Bhudatt R. Paliwal**  
MPW Editor 1993-1994



**Azam Niroomand-Rad**  
MPW Editor 1994-2000



**E. Ishmael Parsai**  
MPW Editor 2000-2009



**Donald Frey**  
MPW Editor 2009-2012



**Virginia Tsapaki**  
MPW Editor 2012-2015



**Magdalena Stoeva**  
MPW Editor 2015-

# Outline of MPW (eMPW) TOC 1984-2019

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## *1984, MPW, Vol. 1, No.1:*

- President's Message by Alexander Kaul, Germany
- Brazilian Association of Physics in Medicine (ABFM) - History and Founding (August 1969), Reported by Larry Lanzl, USA
- Officers of IOMP
- Announcement: Initial issue of IOMP Medical Physics World inauguration, by Larry Lanzl, Editor, USA
- Calendar of Events by Larry Lanzl, Editor, USA
- International Organization for Medical Physics - A Brief History by Rue Walstan, Sweden
- Statutes of the IOMP by Brian Stedeford, UK
- The IAEA/WHO Network of Second Standard Dosimetry Laboratories – A Novel Approach to Modern - Radiation Metrology, by Horst H. Eisenlohr, IAEA, Austria
- American Association of Physicists in Medicine (AAPM) - Introduction by Larry Lanzl, USA

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## *1985, MPW, Vol. 1, No.2:*

- President's Message by Alexander Kaul, Germany
- History and Development of Polish Society of Medical Physics by Oskar Chomicki, Poland
- Officers of IOMP
- Report from the Secretary General – Hamburg and After by Brian Stedeford, UK
- Calendar of Events by Larry Lanzl, Editor, USA
- The International Union of Physical and Engineering Sciences in Medicine (IUPESM) by Larry Lanzl, Editor, USA
- International Commission on Radiation Units and Measurements (ICRU), by Harold Wyckoff, ICRU, Bethesda, USA
- Report on the WHO Training Workshop on Quality Control and Assurance in Diagnostic Radiology, October 27-November 3, 1982, Nuremberg, West Germany, by A. Bauml, West Germany
- Model for Medical Physics Education and Training in the Federal Republic of Germany, by A. Kaul and A. Schmitt, Germany
- Report on First Inter-American Meeting of Medical Physics, July 15-19, 1984, Chicago, USA, by Brian Stedeford, UK
- The Hospital Physicists' Association (UK) by John Haggith, UK
- SSDL – Bolivia – Experiences of an IAEA Expert, by Brian Stedeford, UK
- Announcement: International Union Against Cancer (UICC), Fellowships and Personnel Exchange, Geneva, Switzerland, by Larry Lanzl, USA

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## *1986, MPW, Vol. 2, No. 1:*

- President's Message by Larry Lanzl, USA
- Officers of IOMP
- Editorial Policy by Colin Orton, USA
- IOMP during the time between Hamburg 1982 and Espoo 1985, Report of the Past President on 3 years of activity of the Board of Officers by Alexander Kaul, Germany
- Report of the Secretary-General for the period September 1982 – August 1985, by Brian Stedeford, UK
- IOMP Budget for 1985-1986, by Brian Stedeford, UK
- Appendix I – IOMP Accounts, July 1<sup>st</sup> 1982 – June 30<sup>th</sup> 1985, by Brian Stedeford, UK
- Appendix II - Duties of Developing Countries Committee and Duties of Education and Training Committee by Brian Stedeford, UK
- More about the ICRU by Brian Stedeford, UK
- Quality Assurance in Radiotherapy: Current Activities of the WHO in Collaboration with the Institute for Radiation Hygiene of the Federal Health Office, by A. Kaul and A. Baum, Germany
- Calendar of Events by Geoffrey Ibbott, Editor, USA
- Quality Assurance in Nuclear Medicine in Special View of WHO Recommendations by Hans Detlev Roedler, Germany
- Announcement: Nato Advanced Study Institute on: Physics and Technology of Hyperthermia, Urbino, Italy, June 26, 1986
- IAEA/WHO Network of SSDs - Member Laboratories, by Colin Orton, Editor, USA
- IAEA prepares International Code of Practice for Absorbed Dose Determination in Photon and Electron Beams by H. H. Eisenlohr and M. Gustafsson, IAEA, Austria
- Announcement: Special Subscription Rates to PMB and CPPM for Members of IOMP and EFOMP Societies by Colin Orton, USA
- Announcement: Magnetic Resonance Conference and Summer School, Aberdeen, UK, by Colin Orton, USA
- Correspondence: Medical Physics in Zambia by Musamba Kabinga, Zambia
- Correspondence: International Workshop on High Dose Rate Afterloading by H. Vahrson, Germany
- Announcement: Scholarship Available to Attend Ninth International Conference in Radiation Therapy, Netherlands, June 22-25, 1987, by P.H. van der Giessen, Netherlands
- Advertisers in this Issue and Advertising Rates by Colin Orton, Editor, USA

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## *1986, MPW, Vol. 2, No. 2:*

- President's Message by Larry Lanzl, USA

- Officers of IOMP
- Editorial Policy by Colin Orton, USA
- Secretary-General's Report by Brian Stedeford, UK
- Medical Physics in Denmark by Soren Bentzen, Denmark
- The Developing Countries Committee 1985 by Rune Walstam, Sweden
- Education and Training of Medical Physicists in Poland – A 12 Year Experience by Oskar Chomicki, Poland, B. Gwiazdowska, Poland, and E. Skrzypczak, Poland
- The Statues of Medical Physics in China and Development of Scientific Exchanges Between CAMP and AAPM by Xie Nan-Zhu, China
- Calendar of Events by Geoffrey Ibbott, Editor, USA
- South African Association of Physicists in Medicine and Biology (SAAPMB) by Ms. M. L. duPreez, Honorary Secretary on behalf of SAAPMB
- An Appreciation for Professor Sven Benner (1900 - 1986) by Rune Walstam, Sweden
- Medical Physics in India by P. S. Iyer, India
- Announcement: World Congress on Medical Physics and Biomedical Engineering, San Antonio, Texas, USA, August 6-13, 1988, reported by Gary Fullerton, USA
- Advertisers in this Issue and Advertising Rates by Colin Orton, Editor, USA

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*1987, MPW, Vol. 3, No. 1:*

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- President's Message by Larry Lanzl, USA
- Officers of IOMP
- Editorial Policy by Colin Orton, USA
- Announcement: Newly Elected Members of IOMP by Larry Lanzl, USA
- IOMP's policy for World Congresses, to quote from a report by the Standing Committee on the Free Circulation of Scientists of ICSU (International Council of Scientific Unions): "The organizers of meetings should always keep in mind that bonafide scientists should not be excluded from participating in international scientific meetings because of race, religion, political philosophy, ethnic origin, citizenship, language or sex." by Larry Lanzl, President, USA
- Report of Visits to India and China by Brian Stedeford, UK
- Medical Physics in Canada – An Historical Overview – 1987 by J. C. MacDonald, Canada and J. R. Cunningham, Canada
- Calendar of Events by Geoffrey Ibbott, Editor, USA
- Medical Physics in Hong Kong by G. F. Mauldon, Secretary, Hong Kong Association of Medical Physics, Hong Kong
- First Asian Conference on Medical Physics, Bombay, India, December 8-12, 1986, by Larry Beach, USA and Agnette Peralta, Philippines
- Correspondence: Founding of the Philippines Organization of Medical Physicists (POMP) on June 30, 1986, by Agnette Peralta, POMP President, Philippines
- Correspondence :Medical Physics Bibliography, Medical Physics Publishing Corporation (MPP) by John Cameron, MPP President, USA

- Announcement: Election of IOMP Officers, by Brian Stedeford, Secretary General, UK
- Correspondence: International Center for Theoretical Physics (ICTP), Trieste, Italy, by John Cameron, USA
- Announcement: The Third International Conference on Dose, Time, and Fractionation in Radiation Therapy, -The Physical, Biological and Analytical Basis, September 14-17, 1988, Madison, WI, USA, by Bhudatt R. Paliwal, Chairman of Conference, Madison, WI, USA
- Announcement: New IOMP Corporate Members, by Brian Stedeford, Secretary General, UK
- List of Advertisers in this issue and Advertising Rates by Colin Orton, Editor, USA

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*1987, MPW, Vol. 3, No. 2:*

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- President's Message by Larry Lanzl, USA
- Officers of IOMP
- Announcement: Newly Elected IOMP Member, Sri Lanka
- Secretary-General's Report by Brian Stedeford, UK
- IUPESM News by Robert Clarke, Canada
- Australian College of Physical Scientists in Medicine (ACPSM) – Brief History of the College by Kenneth Clark, Australia
- A Rural Oncology Center in India – Padhar Hospital by Anand Vijay Kumar, India
- Announcement: World Congress 1988 Update, by David Kopp, San Antonio, USA
- Announcement: Workshop on International Collaboration at World Congress 1988, by Colin Orton, Editor, USA
- Announcement: Foreign Visitors Program by AAPM at World Congress 1988, by Colin Orton, Chair AAPM Int'l Affairs Committee, USA
- Announcement: IOMP Corporate Members, by Brian Stedeford, UK
- Calendar of Events by Geoffrey Ibbott, Editor, USA
- News from the Philippine Organization of Medical Physicists by Agnette Peralta, Manila, Philippines
- Member Society Advertisements, by Colin Orton, Editor, USA
- Developing Countries Committee Report by Rune Walstam, Chair, Sweden
- Editorial Policy by Colin Orton, Editor, USA
- Correspondence: VI Congreso Nacional De Fisica Medica, Badajoz, Spain, September 23-25, 1987, by Brian Stedeford, UK
- Announcement: Practical Course of Physical Dosimetry in Radiotherapy at World Congress 1988, by Brian Stedeford, UK
- Correspondence: Recent IEC (International Electrical Commission) Publications at Geneva, Switzerland, by Brian Stedeford, UK
- Correspondence: Annual Congress in Brazil, Sao Paulo, Brazil, October 10-15, 1987 by John Cameron, USA
- Radiation Therapy in China by Liu Tai Fu and Zhang Zhi Yi from Shanghai Cancer Hospital/Cancer Institute, Shanghai, China
- Correspondence: Meetings in China by Nan-Zhu Xie, China



- Advertising Rates, by Colin Orton, Editor, USA
- Announcement: AAPM Establishes Corresponding Memberships by Colin Orton, Chair AAPM International Affairs Committee
- Announcement: WHO Correspondent with MPW, by Gerald Hanson, Geneva Switzerland, by Colin Orton, MPW Editor, USA
- Advertisers in this Issue by Colin Orton, Editor, USA

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*1988, MPW, Vol. 4, No. 1:*

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- President's Message by Larry Lanzl, USA
- Officers of IOMP
- Secretary-General's Report by Brian Stedeford, UK
- The Hospital Physicists' Association and The Institute of Physical Sciences in Medicine (IPSM) by K. J. Carle, ISPM S-G, UK
- Medical Physics in Costa Rica by Patricia Mora, Costa Rica
- Announcement: Quality Control in Diagnostic Radiology by Patricia Mora, Costa Rica
- Developing Countries Committee report by Rune Walstam, Sweden and Cafiero Franconi, Italy
- Medical Physics World - Editor's Report by Colin Orton, USA
- Calendar of Events by Geoffrey Ibbott, Editor, USA
- Curso Practico de Dosimetria Fisic en Radioterapia by Cari Borrás, USA Victor-Manuel Tovar, Latin America, Brian Stedeford, UK and Ma. Cruz Lizuain (SEFM-Sociedad Espanola de Fisica Medica)
- Announcement: International Collaboration Workshop Update, by Colin Orton, Chair Workshop, USA
- Announcement: IOMP Corporate Members
- Announcement: Advertising Rates and Advertisers in this Issue, by Colin Orton, Editor, USA

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*1988, MPW, Vol. 4, No. 2*

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- President's Message by John Cunningham, Canada
- Officers of IOMP
- Dosimetry Course (in Spanish), August 3-7, 1988, San Antonio, USA, by John Cunningham, Canada
- Secretary-General's Report by Colin Orton, USA
- Correspondence: Seminar on Automation Means in Preventive Medicine by Paul Vittay, Budapest, Hungary
- Retiring Secretary General's Letter by Brian Stedeford, UK
- Announcement: New Member Nation, Malaysia, by Colin Orton, USA
- International Collaboration Workshop at World Congress 1988, San Antonio, Texas, USA, August 6-12, 1988
- Past Activities of the IOMP, by Larry Lanzl, IOMP President (1985-1988), USA
- Calendar of Events by Geoffrey Ibbott, Editor, USA
- Medical Radiation Physics in the USSR, by A. M. Gurchik, E. G., Chikirdin and M. S. Vainberg, USSR
- Training in Radio-diagnosis, Radiotherapy, and Nuclear Medicine – Meeting the Needs of Technologists in India, by Anand Vijay, Kumar, India

- IOMP Corporate Members
- Advertising Rates and Advertisers in this issue by Richard Maughan, Editor, USA

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*1989, MPW, Vol. 5, No. 1:*

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- President's Message by John Cunningham, Canada
- Officers of IOMP
- Announcement: A Guide to "Quality Assurance in Radiotherapy, Published by the WHO, Geneva, Switzerland
- Announcement: An agreement between IOMP and Institute of Physical Sciences in Medicine (IPSM) was signed which made the journal of "Clinical Physics and Physiological Measurements" (CPPM) become an official journal of IOMP
- Secretary-General's Report including **New IOMP Library Program**, by Colin Orton, USA
- Announcement: Medical Physics '90 by Colin Orton, USA
- Report of the Education and Training Committee by Carlos E. de Almeida, Chair, Brazil
- Medical Physics Data Accessible by Electronic Mail by Trevor D. Craddock, London, Ontario, Canada
- Calendar of Events by Geoffrey Ibbott, Editor, USA
- Obituary: W. V. Mayneord (1902-1988)** by Christopher Hill, UK
- Announcement: Symposium on Luminescent X-ray Screens – LXRS, Moscow, USSR, November 27-30, 1989, by V. Pankina, Moscow, USSR
- A Rural Oncology Center in South India by S. S. Supe, Karnataka Cancer Therapy and Research Institute, Navanagar, Karnataka, India
- Announcement: **New Journal "Physica Medica"**, International Journal for the Applications of Physics to Biology and Medicine, Official Journal of the Italian Association of Biomedical Physics (AIFB), Editor: Alberto Del Guerra, Napoli, Italy
- IOMP Corporate Members
- Advertising Rate and Advertisers in this Issue

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*1989, MPW, Vol. 5, No. 2:*

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- President's Message by John Cunningham, Canada
- Officers of IOMP
- IOMP Corporate Members
- Advertising Rates
- Secretary-General's Report by Colin Orton, USA
- Quality Assurance of Linear Accelerators by Peter R. Almond, Louisville, USA and Bengt E. Bjarngard, Boston, USA.
- Announcement: Beijing International Congress on Medical Radiation Physics Postponed Until May 27-30, 1990
- Calendar of Events by Geoffrey Ibbott, Editor, USA
- Acceptance Test and Quality Assurance for Magnetic Resonance Imaging Equipment by Jose A. Bencomo,

Houston, USA and Wolfgang R. Nitz, Siemens Medical Systems, Stafford, USA  
-Announcement: New Member Nations: Cyprus and Turkey  
-The Role of the Physicist in Clinical Medicine: A Malaysian Perspective, by D. A. Bradley, A.A. Tajuddin, and K. H. Ng, Malaysia  
-Correspondence: Developing Countries Committee by Nan-Zhu Xie, Guangzhou, Chair, Guangzhou, China

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*1990, MPW, Vol. 6, No. 1:*

-President's Message by John Cunningham, Canada  
-IOMP Corporate Members  
-Officers of IOMP  
-Announcement: IOP (Institute of Physics) Publishing, Ltd., Corporate Membership of IOMP  
-Announcement: Linac Quality Assurance - Quality Control of Electron Accelerators for Medical Use was published by the French Society of Hospital Physicists (SEPH), in July 1989. Ginette Marnello, Chair Working Group, Paris, France  
-Secretary-General's Report by Colin Orton, USA  
-Announcement: X International Conference on the Use of Computers in Radiation Therapy  
-Comparison of Absorbed Dose Determinations Using the IAEA Dosimetry Protocol and the Ferrous Sulphate Dosimeter by Olof Mattsson, University of Gothenburg, Sweden  
-Announcement: 1989 Nucletron Travel Scholarships as payment of their 1989 Corporate Membership dues were granted to Udipi Madhvanath from India and Oskar Chomicki from Poland, by Colin Orton, USA  
-Presentation of TRS No. 277 "Absorbed Dose Determination in Photon and Electron Beams – An International Code of Practice" by Hans Svennson, Head, Dosimetry Section, IAEA, Austria  
-Calendar of Events by Geoffrey Ibbott, USA  
-Editorial Policy by Richard Maughan, Editor, USA  
-The International Union of Physical and Engineering Sciences in Medicine (IUPESM) – A Communication by Larry Lanzl, IUPESM President and Robert Clarke, IUPESM S-G  
-The Greek Association of Medical Physicists (GAMP) by S. Xenofos, Past President, GAMP, Greece  
Quality Control in Diagnostic Radiology by Lawrence Rothenberg, New York, USA

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*1990, MPW, Vol. 6, No. 2:*

-President's Message by John Cunningham, Canada  
-Secretary-General's Report by Colin Orton, USA  
-Announcement: Gammex Companies Travel Awards, by Colin Orton  
-IOMP Corporate Members  
-Advertising Rates  
-Officers of IOMP

-Quality Assurance in Brachytherapy by Colin H. Jones, Institute of Cancer Research and Royal Marsden Hospital, London, UK  
-Calendar of Events by Geoffrey Ibbott, Editor, USA  
-Announcement: IOMP International Libraries Program (ILP) Update, by Cathy Warmelink, Curator of ILP, USA  
-Announcement: IOP and IOMP Join Forces by Colin Orton, USA  
-Beijing International Congress on Medical Radiation Physics, May 27-30, 1990, by Oskar Chomicki, Poland

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*1991, MPW, Vol. 7, No. 1:*

-President's Message by John Cunningham, Canada  
-Secretary-General's Report by Colin Orton, USA  
-Officers of IOMP  
-Announcement: IOMP International Libraries Program (ILP) Update by Cathy Warmelink, Curator of ILP, USA  
-IOMP Corporate Members  
-Advertising Rates  
-Announcement: Kyoto Travel Grants, by Colin Orton, USA  
-News Item: First Latin American Workshop on Medical Physics Held in Sao Paulo, Brazil, October 7-11, 1990, by John Cameron, USA  
-Results of Survey by the Developing Countries Committee of the IOMP by Oskar Chomicki, Poland  
-Announcement: IOP and IOMP Join Forces  
-Calendar of Events by Geoffrey Ibbott, Editor, USA  
-Announcement: Membership of IOMP Committee on Education and Training (1990-1992) by Norman Baily, ETC Chair, USA  
-Quality Control of Computer-Interfaced/Scintillation Cameras, by Audrey V. Wegst and Jon J. Erickson, Kansas City, MO, USA  
-Announcement: Appeal for a Cobalt Unit for Afghanistan by Udipi Madhvanath, IOMP Vice President, Bombay, India

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*1991, MPW, Vol. 7, No. 2:*

-President's Message by Udipi Madhvanath, India  
-Letter from Dr. Keith Boddy, Vice President, UK  
-Announcement: Proceeding of the 10<sup>th</sup> International Conference on the Use of Computers in Radiation Therapy, held in Lucknow, India is available, by S Hukku, Lucknow, India  
-Officers of the IOMP  
-Secretary-General's Report by Colin Orton, USA  
-Report on the International Workshop on Radiotherapy Treatment Planning and Remote Afterloading Brachytherapy, Seoul, Korea, July 4, 1991 by P.S. Iyer, Bombay, India  
-Report on the Asian and Pacific International Conference on Medical Physics, **Guangzhou, China, July 15-17, 1991**, by Oskar Chomicki, Poland  
-Report on the Training Course on Medical Physics, **Beijing, China, June 17 – July 3, 1991**, by P.S. Iyer, India-International

Cooperation in Medical Physics, Banquet Speech at the World Congress 1991 in Kyoto, Japan, July 11, 1991 by Udipi Madhvanath, President, India

-Announcement: Congratulations to IOMP new members,

**Jordanian Association of Medical Physics and Pakistan Radiological Society**

-Medical Physics in the Philippines-Brief History: Philippines Organization of Medical Physics (**POMP**), **Founded in 1986, Agnette Peralta**, 1<sup>st</sup> **President**, by C. S.

Lagarde, L.V. Rodrigues and A.M. Lobrigitto, Philippines

-IOMP Libraries Program: Status Report, by Cathy Warmmelink, Curator, USA

-Announcement: **New and Used Equipment Donations** – One Contribution Benefits Others and Yourself by Ann Goldman, Pan American Development Foundation, Washington D.C. USA

-Announcement: Committee on Education and Training, by Norman A. Baily, ETC Chair, USA

-Announcement: IOMP Regional Conference, Bhabha Atomic Research Center (BARC), Bombay, India, September 8-11, 1992, by P. S. Iyer, Secretary, Organizing Committee, ICMP-92, India

-Calendar of Events by Geoffrey Ibbott, Editor USA

-IOMP Corporate Members

-Advertising Rates by Richard Maughan, Editor, USA

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*1992, MPW, Vol. 8, Nos. 1 & 2:*

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-President's Message by Udipi Madhvanath, India

-Secretary-General's Report by Colin Orton, USA

-Officers of IOMP

-Strategic and Action Plan, drafted by Keith Boddy, reported by Colin Orton, USA

-**Obituary: Norman A. Baily (1915-1992)** by Colin Orton, USA

-Development of Medical Physics Infrastructure in India and South Asia, By P.S. Iyer, India

-Health Through Education: The Work of the Clinical Science Foundation, by David White, UK.

-Announcement: The US-India Medical Physics Foundation (USIMPF), Founded in 1989, reported by S. V. Parthasarathy, USIMPF Secretary/Treasurer, USA

-Report on the International Conference on Medical Physics and Radiation Safety, Bombay, India, September 8-11, 1992, reported by P.S. Iyer, India

-Announcement: Future issues of MPW: **New Editor**, Bhudatt Paliwal, Madison, USA and **Managing**

**Editor**, Eileen Healy and **Publisher**: Medical Physics Publishing, Madison, WI, USA

-IOMP Corporate Members

-Advertising Rates

-Calendar of Events by Geoffrey Ibbott, Editor USA

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-World Congress on Medical Physics and Biomedical Engineering, Rio de Janeiro, Brazil, August 21-27,

1994, by Udipi Madhvanath, IOMP President, India, Robert M. Nerem, IUPESM President, USA, and Niilo

Saranummi, IFMBE President, Finland

-Officers of IOMP

-Secretary-General's Report by Colin Orton, USA

-**MPW Changes Editor** by Colin Orton, USA

-Editorial by Bhudatt Paliwal, MPW Editor, USA

-IUPESM Secretary General's Report by Orest Z. Roy, Canada

-Regional Medical Physics Center in Multan, Pakistan by Jahangir Ahmad Satti and Mohammad Riaz Moghal, Pakistan

-Magnetic resonance in Developing Countries by Nan-Zhu Xie, DCC Chair, China

-Announcement: International Scientific Exchange Programs (ISEP) Course/Workshop, Tehran, Iran, May 21-25, 1994, by Azam Niroomand-Rad, ISEP Founder and Chair, USA

-Workshop in Argentina, Oro Verde, Argentina, September 29-October 3, 1992 by Doracy Fontenla, USA

-Announcement: World Congress on Medical Physics and Biomedical Engineering, Rio de Janeiro, Brazil, August 21-27, 1994

-Announcement: The 1994 Asian and Pacific International Conference on Medical Quality Assurance Testing Technology, Guangzhou, China, May 9-11, 1994, by Nan-Zhu Xie, China

-Recent Activities of the International Electro-technical Commission (IEC), Founded in 1906, Geneva, Switzerland, reported by Geoffrey Ibbott, USA

-Recommended Reading:

-The Good News About Radiation, 1993, by John Lenihan

-Health Effects of Low-Level Radiation, 1993, by Sohei Kondo

-Physics and Dosimetry of Therapy Electron Beams, 1993, by Stanley Klevenhagen

-Test Tools for Developing Countries by Melita Panescu and John Cameron, Madison, Wisconsin, USA

-Report on the Developing Countries Libraries Program by Cathy Warmmelink, Curator, USA

-Report on the Second International Summer School on Physics in Radiotherapy, Warsaw, Poland, by John W. Boag, London, UK

-**Book Review** "Advanced Medical Radical Radiation Dosimetry" by K. N. Govinda Rajan, India, Reported by Bhudatt Paliwal, Editor, USA

-Calendar of Events by Geoffrey Ibbott, USA

-**IOMP, IFMBE and the Future** by Jose AE Spaan, Secretary General of IFMBE, Netherlands

-IOMP Corporate Affiliates, 1993

-IOMP Statement of Accounts 1987-1993, Colin Orton, Treasurer

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-President's Message by Udipi Madhvanath, India

-Medical Physics in Latin America by Udipi Madhvanath, India

-Vice-President Report by Keith Boddy, UK

-Editor's Report by Bhudatt Paliwal, USA



- Officers of IOMP
- Secretary-General's Report by Colin Orton, USA
- Test Tools for Developing Countries by Melita Panescu and John Cameron, Madison, Wisconsin, USA
- Announcement: International Scientific Exchange Programs (ISEP) Course/Workshop in **Tehran, Iran, May 21-25, 1994** by Azam Niroomand-Rad, ISEP Chair, USA
- IOMP Corporate Affiliates, 1984
- World Congress Update by Carlos Eduardo de Almeida and Laura Rodriguez, Co-Chairs
- Calendar of Events by Geoffrey Ibbott, USA

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*1994, MPW, Vol. 10, No. 2:*

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- President's Message by Keith Boddy, UK
- Editor's Report by Azam Niroomand-Rad, Editor, USA
- Past Editor's Report** by Bhudatt Paliwal, USA
- Executive Committee appoints the **First Treasure, Ms. Ann Dixon-Brown from UK**, Reported by **Azam Niroomand-Rad, Editor, USA**
- Officers of IOMP
- Vice-President's Report by Colin Orton, USA
- Secretary-General's Report by Hans Svensson, Sweden
- Request for Support International Scientific Exchange Programs –The Physics of Radiation Therapy in Istanbul, Turkey, Sept.11-15, 1995 by Azam Niroomand-Rad, USA and Saiyid M. Shah, USA
- Executive Committee Resolves to **Form IOMP Science Committee**, reported by Gary Fullerton, Chair of Science Committee, USA
- Test Tools for Developing Countries by Melita Panescu and John Cameron, Madison, Wisconsin, USA
- Table 1.** Financial Support for Study/Training Abroad
- Table 2.** US Institutions Willing to Host Visiting Scholars from Developing Countries by Colin Orton, USA
- About Those Who Give:** Dr. Charles Lescrenier and Peggy Lescrenier, Gammex Companies, USA, by Bhudatt Paliwal, Past Editor, USA
- Developing Countries Committee Report by M. S.S. Murthy, Chair
- IOMP Corporate Affiliates, 1994
- Calendar of Events by Geoffrey Ibbott, USA
- Report from AAPM/IOMP International Scientific Exchange Programs Course/Workshop in **Iran, May 22-26, 1994** by Azam Niroomand-Rad, ISEP Chair, USA and Azim Arbabi, 1<sup>st</sup> President of **Iran Association of Medical Physicists**, Tehran, Iran
- Education and Training Committee Report by N. Suntharalingam, Chair, USA

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- President's Message by Keith Boddy, UK
- Secretary-General's Report by Hans Svensson, Sweden
- Vice-President report by Colin Orton, USA
- Officers of IOMP

- Request For Support – International Scientific Exchange Programs, Istanbul, Turkey, September 11-15, 1995 by Azam Niroomand-Rad, ISEP Chair, USA and Saiyid M. Shah, USA
- Honorary Treasurer's Report by Ann Dixon-Brown, Treasurer, UK
- Medical Physics in **Cuba** by Jose M. Marco Hernandez, President of **Cuban Medical Physics Society (SCFM)**, Cuba
- IUPESM Report by Larry Lanzl, IUPESM Past President, USA
- Advertising Rates / Order Form for Medical Physics World, by Azam Niroomand-Rad, Editor, USA
- Need an Old Linear Accelerator Unit for Bangladesh, by Asraf Ali, Treasurer of Bangladesh Development Initiative (BDI) and Hasan Murshed, PA, USA
- Partners in Physics (PIP)** by Perry Sprawls, USA
- IUPESM Bylaws, 1992, Reported by Larry Lanzl, IUPESM Past President, USA
- An Appeal from Developing Countries Committee for Donation of New and Used Equipment to Developing Countries by M. M. S. Murthy, DCC Chair, India
- Report from ACPSEM (Australian College of Physical Scientists and Engineers in Medicine) – New Zealand Branch, by M. Brown, Christchurch, New Zealand
- Latin American and Caribbean Medical Physicists (August 1994), by Cardid Borrás, PAHO, USA
- IOMP Corporate Affiliates, 1995
- Calendar of Events by Geoffrey Ibbott, USA
- The Romanian Medical Radiology and Radiation Protection in the Year of Rontgen Centenary by C. Milu, - President of RSRP (Romanian Society for Radiological Protection, Romania)
- IOMP Libraries Report by Catherine Alekhteyar, Curator, USA

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- President's Message including **ILO** report by Keith Boddy, UK
- Vice-President report by Colin Orton, USA
- Medical Physicist Awarded Nobel Peace Prize, Prof. Joseph Rotblat, UK**, reported by Colin Orton, USA Officers of IOMP
- Request for Support – International Scientific Exchange Programs (**ISEP**), **Rabat, Morocco, September 1996** reported by Azam Niroomand-Rad, ISEP Chair, USA and Bouchaib Rabbani, USA
- Equipment Available for Donation by M. S.S. Murthy, Chair, Developing Countries Committee, India
- Secretary-General's Report by Hans Svensson, IOMP S-G, Sweden
- Honorary Treasurer's Report by Ann Dixon-Brown, Treasurer, UK
- Twinning:** Developing with the Developed by Ann Dixon-Brown, Treasurer, UK
- Advertising Rates / Order Form Medical Physics World, by Azam Niroomand-Rad, Editor, USA
- Test Tools for Developing Countries by Melita Panescu and John Cameron, Madison, Wisconsin, USA

-Report from AAPM/IOMP International Scientific Exchange Programs, **Istanbul, Turkey, September 11-15, 1995** by Azam Niroomand-Rad, ISEP Chair, USA  
-IOMP Corporate Affiliates, 1995  
-Calendar of Events by Geoffrey Ibbott, USA  
-Performa for Statues of Medical Physicists by M. M. S. Murthy, DCC Chair, India  
-Library Program for Developing Countries by M. M. S. Murthy, DCC Chair, India  
-An International Particle Therapy Meeting, Detroit, USA, April 24-26, 1996 by Richard Maughan, USA

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-President's Message including **ILO connection** report by Keith Boddy, UK  
-Vice-President report by Colin Orton, USA  
-Officers of IOMP  
-Secretary-General's Report by Hans Svensson, Sweden  
-IOMP Libraries Program, by Catherine Alekhteyar, Curator, USA  
-Request for Support – International Scientific Exchange Programs (**ISEP**), **Rabat, Morocco, September 30 – October 4, 1996**, by Azam Niroomand-Rad, ISEP Chair USA and Bouchaib Rabbani, USA  
-Announcement by Developing countries Committee, Equipment for Donation to Developing Countries by M. M. S. Murthy, Chair, India  
-Report of the **German Society for Medical Physics (DGMP)** by R. Schmidt, Hamburg, Germany  
-Advertising Rates / Order Form for Medical Physics World, by Azam Niroomand-Rad, Editor, USA  
-IOMP Corporate Affiliates, 1995  
-Calendar of Events by Geoffrey Ibbott, USA  
-IUPESM President's Report by Niilo Saranummi, Finland  
-Report from the Iran Association of Medical Physics (IAMP) by Azim Arbabi, President IAMP, Iran  
-Present Statues of Chinese Society of Medical Physics (CSMP) by Xie Yue, CSMP, China  
-Report from **Association of Medical Physicists of Ukraine (AMPU)** by Valeri Orel, AMPU Vice-President, Ukraina  
-Report from **South African Medical Physic Society**

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-President's Message including **ILO Letter by Dr. Farhad Mehran, dated August 28, 09**, by Keith Boddy, UK  
-Secretary-General's Report by Hans Svensson, Sweden  
-Officers of IOMP  
-Honorary Treasurer's Report by Ann Dixon-Brown, Treasurer, UK  
-IOMP Corporate Affiliates, by Ann Dixon-Brown, Treasurer, UK  
-Twinning by Ann Dixon-Brown, Treasurer, UK  
-IOMP Libraries Report by Catherine Alekhteyar, Curator, USA  
-Calendar of Events by Geoffrey Ibbott, USA

-Effective Dose and Equivalent Dose are Unnecessary by John Cameron, Wisconsin, USA  
-Vice-President report by Colin Orton, USA  
-Medical Physics on the Internet – **Medical Physics Books and Journal On-Line** by John Cameron, USA and Kwan-Hoong Ng, Malaysia  
-Request For Support, International Scientific Exchange Programs, Moscow, Russia, June 16-20, 1997 by Azam Niroomand-Rad, USA, Ronya Likhovetsky, USA, and Valeriy Kostylev, Russia  
-**IUPESM Award of Merit**, Reported by Udipi Madhvanath, Chair, Award of Merit Committee, India  
-Advertising Rates / Order Form Medical Physics World, by Azam Niroomand-Rad, Editor, USA  
-Report From AAPM International Scientific Exchange Programs (ISEP), **Rabat, Morocco, September 30 – October 4, 1996**, by Azam Niroomand-Rad, ISEP Chair, USA  
-IOMP Corporate Affiliates, 1996  
-Electronic Medical Physics World – EMPW, including members of EMPW, by John Cameron, USA  
-**"Ask Your Medical Physicists" Experts** John Cameron, USA  
-Report from **Moldova Association of Medical Physicists (MAMP)** by G. S. Zakharchenko, Chairman MAPW, Moldova  
-IEC Standards (1217) for Radiotherapy Equipment – coordinates, movements and scales

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-President's Message by Keith Boddy, UK  
-Secretary-General's Report by Hans Svensson, Sweden  
-Officers of IOMP  
-Calendar of Events by Geoffrey Ibbott, USA  
-Vice-President report by Colin Orton, USA  
-Honorary Treasurer's Report by Ann Dixon-Brown, Treasurer, UK  
-IOMP Libraries Report by Catherine Alekhteyar, Curator, USA  
-Radiation Therapy Procedure Manual for Developing Countries by Dr. M. J. Scott and Joubert Park, South Africa  
-Request For Support International Scientific Exchange Programs, **Cairo, Egypt, May 1998** by Azam Niroomand-Rad, ISEP Chair, USA and Madjid Aissi, USA  
-Advertising Rates / Order Form Medical Physics World, by Azam Niroomand-Rad, Editor, USA  
-IOMP Corporate Affiliates, 1997  
-Statues of Medical Physicists in Developing Countries by M.S.S. Murthy, Chair DCC, India  
-“Twinning” of Medical Physics Departments by Ann Dixon-Brown, UK and M.S.S. Murthy, India  
-Medical Physics Practice and Status in Jordan by Rihab Hatough, President of Jordanian Association of Medical Physicists (JAMP)  
-Report from **Zambia** by Andries van Aswegen, South Africa  
-Polish Journal of Medical Physics and Engineering by Ewa Zalewska, Warsaw, Poland

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- President's Message by Colin Orton, USA
- Past President's Report at IOMP Meeting in Nice, France by Keith Boddy, UK
- Officers of IOMP
- Past Vice-President's Report at IOMP Meeting in Nice, France by Colin Orton, Past Vice President, USA
- Secretary-General's Report by Gary Fullerton, USA
- Past Secretary-General's Report at IOMP Meeting in Nice, France by Hans Svensson, Sweden
- Treasurer's Report by Ann Dixon-Brown, Treasurer, UK
- IOMP Corporate Affiliates, 1997
- Science Committee (SC) Report by Gary Fullerton, Chair, USA
- Advertising Rates / Order Form Medical Physics World, by Azam Niroomand-Rad, Editor, USA
- Developing Countries Committee (DCC) Report by M.S.S. Murthy, Chair DCC, India
- Education and Training Committee (ETC) Report by N. Suntharalingam, ETC Chair, USA
- International Scientific Exchange Programs, Course/Workshop, **Moscow, Russia, June 16-20, 1997**, by Azam Niroomand-Rad, ISEP Chair, USA
- Request For Support, International Scientific Exchange Programs, **Cairo, Egypt, May 10-14, 1998** by Azam Niroomand-Rad and Madjid Aissi, USA
- IOMP Libraries Program Report by **Marilyn Stovall, Curator**, USA
- Medical Radiation Physics in **Croatia** Reported by M. Vrtar, Croatia
- Miscalibration of Co-60 Source at **Costa Rica** Reported by Patricia Mora, University of Costa Rica, San Jose, Costa Rica
- Calendar of Events by Geoffrey Ibbott, USA
- Response to Dr. Cameron "Effective Dose and Equivalent Dose are Unnecessary" by Philip Dendy, Cambridge, England
- Medical Physics in **Algeria** by **Dr. Habib Zaidi**, Secretary-General of AAMP (Algerian Association of Medical Physicists), Switzerland

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- President's Message by Colin Orton, USA
- Secretary-General's Report, including electronic Communication Initiatives and establishment of IOMP web <http://www.iomp.org> by Gary Fullerton, USA
- Chicago World Congress 2000** including **International Advisory Committee Chaired by Azam Niroomand-Rad and Dov Jaron**, reported by Bill Hendee and Al Potvin, Co-Presidents, USA
- IOMP Libraries Program Report by Marilyn Stovall, Curator, USA
- A Letter From the President of the **International Union For Physical and Engineering Sciences in Medicine (IUPESM)** including communication with **International**

- Council of Scientific Unions (ISCU)**, by Keith Boddy, IUPESM President
- Vice-President's Report by Oskar Chomicki, Poland
- Education and Training Committee (ETC) Report by **Azam Niroomand-Rad, ETC Chair**, USA
- Developing Countries Committee (DCC) Report by Andries van Aswegen, Chair DCC, South Africa
- Advertising Rates / Order Form Medical Physics World, by Azam Niroomand-Rad, Editor, USA
- IOMP Corporate Affiliates, 1998
- Latin American Association of Medical Physics, First Iberian Latin American and Caribbean Congress on Medical Physics by Fis. Enrique Gaona, Mexico
- The IOMP and Neoforma ([www.neoforma.com](http://www.neoforma.com)) Harness to Power of the Internet by Jeff Kleck, Editor for Neoforms, USA
- Editor's Corner: Maria Sklodowska Curie's Achievements – Part 1**, adopted from Polish Journal of Medical Physics and Engineering by Azam Niroomand-Rad, Editor, USA
- Calendar of Events by **Carter B. Schroy**, USA
- Medical Physics Award** at Nice, Paris, presented to **John R. Cunningham**, Canada, reported by John Cameron, USA
- Honouring Harold Elford Johns** by John R. Cunningham, IUPESM Award of Merit Recipient at World Congress 1997, Nice, France
- Medical Physics in **Zimbabwe** reported by Daniel Bourland, USA
- Response to Dr. Dendy "Effective Dose and Equivalent Dose are Unnecessary" by John Cameron from USA
- IUPESM Developing Countries Committee (DCC) Report, 1994-1997 by DCC Co-Chairs, Oskar Chomicki,
- Poland and Helmut Hutten, Poland
- Medical Physics in **Kenya** Reported by Daniel Bourland, USA

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- President's Message by Colin Orton, USA
- Secretary-General's Report, including relocation of IOMP web <http://www.iomp.org> from University of Wisconsin at Madison, Wisconsin to the AAPM Headquarters, by Gary Fullerton, USA
- Scientific Program Plans Underway for Chicago 2000 World Congress (July 23-18, 2000) by Russell Ritenour, Chair of Scientific Program Executive Committee, USA
- Vice-President's Report by Oskar Chomicki, Poland
- Report from the Developing Countries Committee (DCC) by Andries van Aswegen, Chair DCC, South Africa
- Letter From the President of the IUPESM, including communication with **Mrs. Bahmani Fard**, Assistant Executive Director, International Council of Scientific Unions (**ISCU**) by Keith Boddy, IUPESM President
- Report from Education and Training Committee (ETC) by Azam Niroomand-Rad, ETC Chair, USA
- Donation of Used Equipment by Mohammed Zaidi, USA



-Announcement for World Congress on Medical Physics and Biomedical Engineering -**Chicago 2000**  
 -Report from AAPM International Scientific Exchange Programs, Course/Workshop in **Cairo, Egypt, May 10-14, 1998** by Azam Niroomand-Rad, Chair, ISEP, USA  
 -Request for Support for International Scientific Exchange Programs(**ISEP**), **Course/Workshop in Cluj, Romania, June 10-14, 1999** by Azam Niroomand-Rad USA and Rodica Alecu USA  
 -Request for Support for International Scientific Exchange Programs (**ISEP**), **Course/Workshop in Sao Paulo, Brazil, June 9-13, 1999** by Azam Niroomand-Rad USA and Doracy Fontella USA  
 -Advertising Rates / Order Form Medical Physics World, by Azam Niroomand-Rad, Editor, USA  
 -**Obituary: Harold Elford Johns (1915 - 1998)** by Clive L. Greenstock, AECL, Canada  
 -**Editor's Corner: Maria Sklodowska Curie's Achievements – Part II**, adopted from Polish Journal of Medical Physics and Engineering by Azam Niroomand-Rad, Editor, USA  
 -International Conference on Medical Imaging, Medical Physics, and Precision Radiation Therapy, Guangzhou, China, November 4-6, 1999 by Co-Presidents, Nan-Zhu Xie, China and William Hendee, USA  
 -Calendar of Events by Carter B. Schroy, USA  
 -Medical Physics Events Calendar by Carter B. Schroy, USA  
 -IOMP Corporate Affiliates, 1998  
 -**Honorary** Treasurer's Report by Ann Dixon-Brown, UK  
 -IOMP Libraries Program Report by Marilyn Stovall, Curator, USA

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-President's Message by Colin Orton, USA  
 -Secretary-General's Report, including **renaming Developing Countries Committee (DCC) to Professional Relations Committee (PRC)** and including **formation of IOMP International Advisory Council (IAC)** by Gary Fullerton, USA  
 -Treasurer's Report and **retirement of Ms. Ann Dixon Brown** as Treasurer, Reported by Gary Fullerton, Interim Treasurer, USA  
 -Announcement for World Congress on Medical Physics and Biomedical Engineering -**Chicago 2000**  
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 -Request for Support for International Scientific Exchange Programs (**ISEP**), **Course/Workshop in Bangkok, Thailand, May 29-June 2, 2000** by Azam Niroomand-Rad USA and Ishmael Parsai, USA  
 -Letter From the President of the IUPESM, by Keith Boddy, IUPESM President, UK  
 -IOMP/AAPM Libraries Report by Marilyn Stovall, Curator, USA  
 -Report from Education and Training Committee (ETC) by Azam Niroomand-Rad, ETC Chair, USA  
 -Report of the Professional Relations Committee (PRC) including **renaming DCC to PRC**, Report by Andries van Aswegen, **Chair PRC**, South Africa

-**Editor's Corner: Maria Sklodowska Curie's Achievements – Part III**, adopted from Polish Journal of Medical Physics and Engineering by Azam Niroomand-Rad, Editor, USA  
 -Explaining Radiation to Patients – **The BERT Approach by John Cameron, USA**  
 -**IOMP Solicits Suggestions for an Ad Hoc Awards and Honors Committee (AHC) by Co-Chairs Azam Niroomand-Rad, USA and John R. Cameron, USA**  
 -IPEM Journals from IOP Publishing: Recent Developments & Innovations by Paul A. Craven, Publishing Editor, IOP Publishing, UK  
 -Donations of Used Equipment – A PRC Report M. K. Zaidi, USA  
 -6<sup>th</sup> International Conference on Medical Physics - **Patras Medical Physics 99, Patras, Greece, September 1-4, 1999**  
 -The Impact of the Year 2000 Problem in Clinical Environment by Robert J. Baker, PhD, RJB Consultant LLC, San Diego, CA  
 -Report on the Latin American Medical Physicists (**ALFIM**) meeting in **Mexico, November 1998** by Lila Carrizales, Venezuela  
 -Calendar of Events by Carter B. Schroy, USA  
 -IOMP Corporate Affiliates, 1999  
 -Report on WHO Radiotherapy Consultants Meeting, London, March 5-6, 1999 by Colin Orton, President, USA

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-President's Message by Colin Orton, USA  
 -Secretary-General's Report, including **Reorganization of IOMP for an Internet World** by Gary Fullerton, USA  
 -Letter From the President of the IUPESM: **IUPESM become a full member of International Council of Scientific Union (ICSU)**, known as **International Council for Sciences**, at the ISCU General Assembly meeting in **Cairo, Egypt on September 29, 1999**, by Keith Boddy, IUPESM President, UK  
 -IOMP/AAPM Libraries Report by Marilyn Stovall, Curator, USA  
 -World Conference on Science, Budapest Hungary, June 26-July 1, 1999, reported by Oskar Chomicki, IOMP Vice-President, Poland  
 -Vice-President Report by Oskar Chomicki, Poland  
 -Report from AAPM International Scientific Exchange Programs, Course/Workshop in Sao Paulo, Brazil, June 2-5, 1999, by Doracy Fontella, USA and Azam Niroomand-Rad, USA  
 -Report from AAPM International Scientific Exchange Programs, Course/Workshop in Napovaa, Romania, June 10-14, 1999 by Rodica Alecu, USA and Azam Niroomand-Rad, USA  
 -Advertising Rates / Order Form by Azam Niroomand-Rad, USA  
 -Treasurer's Report by Gary Fullerton, Interim Treasurer, USA  
 -Course/Workshop on Radiation Therapy Physics, Bangkok, Thailand, May 29 – June 2, 2000, reported by

Anchali Krisanachinda, Thailand  
 -Calendar of Events by Carter B. Schroy, USA  
 -International scientific Exchange Programs, Course/Workshop on Radiation Therapy Physics Bangkok, **Thailand, May 29 – June 2, 2000** reported by Azam Niroomand-Rad and Ishmael Parsai, USA  
 -Electronic Medical Physics World (EMPW), established in 1997, Reported by John R. Cameron, USA  
 -**Medical Physics in Canada** by Peter Dunscombe, Past President, Canadian College of Physicists in Medicine (CCPM) and Mike Patterson, Chair, Canadian Organization of Medical Physicists (COMP)  
 -11<sup>th</sup> Nordic-Baltic Conference on Biomedical Engineering, Tallinn, Estonia, June 6-10, 1999, Reported by Oskar, Chomicki, Poland  
 -Donation of used Equipment – A PRC Report by M. Zaidi, USA  
 -Report from the Education and Training Committee (ETC) by Azam Niroomand-Rad, ETC Chair, USA  
 -Report of the Professional Relations Committee (PRC) by Andries van Aswegen, Chair, South Africa  
 -**Are X-Rays Safe? By John Cameron, USA**  
 -Sacred to the Memory of Dr. G. Zakharchenko by A. Levintsa, President of Moldovan Association of Medical Physicists (MAMP), Moldova  
 -Science Committee's Report by Gary Fullerton, Chair, USA  
 -IOMP Solicits Nomination for Marie Sklodowska-Curie Award for 2000, by Colin Orton  
 -IOMP Corporate Members – 1999

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-President's Message by Colin Orton, USA  
 -Secretary-General's Report by Gary Fullerton, USA  
 -Officers of IOMP  
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 -Letter From the President of the IUPESM by Keith Boddy, UK  
 -Report of the Professional Relations Committee (PRC) by Andries van Aswegen, Chair, South Africa  
 -Announcement: International Scientific Exchange Programs (**ISEP**), **Course/Workshop in Riyadh, Saudi Arabia, March 9-13, 2002** by Azam Niroomand-Rad, USA and Muthana Al-Ghazi, USA  
 -Donation of Used Equipment (PRC Report) by M. Zaidi  
 -Science Committee Report by Gary Fullerton, Chair, USA  
 -Report from the education and Training Committee (ETC) by Azam Niroomand-Rad, ETC Chair, USA  
 -IOMP/AAPM Libraries Report by Marilyn Stovall, Curator, USA  
 -Report from IOMP Awards and Honors Committee (AHC) by Azam Niroomand-Rad, AHC Member  
 -Report on the Medical Physics Workshop, Kuala Lumpur, Malaysia, April 10-11, 2000, reported by Larry A. Dewerd, USA and Kwan-Hoong Ng, Malaysia  
 -Advertising Rates / Order Form by Azam Niroomand-Rad, Editor, USA  
 -European Conferences in Medical Physics – Education and Training by Slavik Tabakov, Member, IOMP ETC, UK

**-In defense of Radioactivity by John R. Cameron, USA**  
 -Nomination for the ICRU Gray Medal Invited: Award established by ICRU in 1967 to honor the late Louis Harold Gray, former Vice-Chairman of ICRU, by Roger Ney, Bethesda, MD, USA  
 -Mould Room Mailing List by John Macmillan and Amanda Pemberton, UK  
 -IOMP Corporate Members  
 -Calendar of Events by Carter B. Schroy, USA

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-President's Message by Oskar Chomicki, Poland  
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 -Editor's Report by Ishmael Parsai, USA  
 -Treasurer's Report by **Nisakorn Manatrakul, Thailand**  
 -Report of the IOMP Professional Relations Committee (**PRC**) - **(1997-2000) including statues of Medical Physicist Certification, by Andries van Aswegen, South Africa**  
 -Past-President's Report by Colin Orton, USA  
 -Publications Committee (PC) Report by Gino Fallone, Canada  
 -Announcement: Journal of Applied Clinical Medical Physics (JACMP), published by the American College of Medical Physics (ACMP), Reported by Gino Fallone, Chair, IOMP PC, Canada and Peter R. Almond, Editor-in-Chief, USA  
 -**Past Editor's Report including MPW statistical profile and MPW Accounts (1994-2000) by Azam Niroomand-Rad, USA**  
 -Advertising Rates / Order Form by Ishmael Parsai, USA  
 -Donation of Used Equipment – PRC Report (July – Dec 2000) by M. Zaidi, USA  
 -Status AAPM/IOMP Libraries, September 15, 2000 by Marilyn Stovall, USA  
 -New Publications from IAEA  
 -Announcement: International Scientific Exchange Programs (**ISEP**), **Course/Workshop in Dhaka, Bangladesh, January 29 – February 2, 2001**, by Azam Niroomand-Rad, USA and Saiful Huq, USA **IUPESM President Message including Ordinary Members and Members-at-large**, Reported by Jean- Pierre Morucci, France  
 -Published for IOMP: Editorial Coverage and Circulation by Ishmael Parsai, Editor, USA  
 -**John Cameron Receives 1<sup>st</sup> IOMP Marie Sklodowska Curie Award at World Congress 2000, July 25-28, Chicago, USA**, by Perry Sprawls, USA  
 -**FYI Note:** More information about **Marie Sklodowska Curie** is located at **American Institute of Physics Website ([www.aip.org](http://www.aip.org))**. Select "History Center", then the "Curie Volume" that contains "Marie Curie and the Science of Radioactivity". It contains chapters on **Marie Sklodowska's** early life in Poland, as student in Paris, her marriage to **Pierre Curie**, and their careers together and apart.

-IOMP Corporate Members, 2000  
-**Education and Training Committee (ETC) Report – World Congress 2000, July 25-28, Chicago, USA**  
by Azam Niroomand-Rad, ETC Chair (1997-2000), USA and Slavik Tabakov, ETC Chair (2000-2003), UK  
-Calendar of Events by Carter B. Schroy, USA

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-**Vice-President's Report** including **appeal by Korea for bid selection for World Congress 2006** by Azam Niroomand-Rad, USA  
-International Medical Physics for the 21<sup>st</sup> Century including **history of discovery of X-ray (Wilhelm Roentgen, Wurzburg, Germany, Nov. 1895) and Radioactivity (Marie and Pierre Curie, Paris, France, 1896)** by Gary Fullerton, S-G, USA  
-IOMP Officers 2000  
-Report of the IOMP Professional Relations Committee (2000-2003 including membership of PRC, by Stelios Christofides, Cyprus  
-Treasurer's Report by Nisakorn Manatrakul, Thailand  
-Status of AAPM/IOMP Libraries - April 2, 2001 by Marilyn Stovall, USA  
-Announcement: International scientific Exchange Programs, Course/Workshop on Radiation Therapy Physics in **Riyadh, Saudi Arabia, December 29, 2001 – January 03, 2002**, organized by Azam Niroomand-Rad USA and Muthana Al-Ghazi, USA  
-Announcement: International scientific Exchange Programs, Course/Workshop on Radiation Therapy Physics in **Zambia**, March 11-15, 2002 organized by Azam Niroomand-Rad USA and Ishmael Parsai, USA  
-Donation of Used Equipment – PRC Report for January – June 2001 by M.Zaidi, USA  
-Report from the Education and Training Committee (ETC) by Slavik Tabakov, ETC Chair, UK  
-International Seminar and Workshop on Medical Physics Training with **EMERALD (European Medical Radiation Learning Development)** by Slavik Tabakov, UK, Ladislav Musilek, Czech Republic and Franco Milano, Italy  
-A report on Medical Physics Seminar/Workshop **"Medical Physics in Radiotherapy and Nuclear Medicine" in Dhaka, Bangladesh, December 5 – 10, 1999**, by Gholam Abu Zakaria, Germany  
-Medical Physics World Advertising Rates and Order Form by Ishmael Parsai, MPW Editor, USA  
-**International Conference on Radiation and its Role in Diagnosis and Treatment (FICR 2000), Tehran, Iran, October 18-20, 2000** by Andrew Karam, CHP, University of Rochester, NY, USA and Azam  
-Publication Committee (PC) including list of members, Report by B. Gino Fallone, Chair  
-Interactive Radiotherapy Planning for Students, UK  
-Annual Report for 2000 of the International Union of Physical and Engineering Sciences in

Medicine(IUPESM) by J.P. Morucci, President, IUPESM, France  
-**Some Radiation Is Necessary For Good Health** by **John R. Cameron, USA**  
-IOMP Corporate Members – 2001  
-Report of AAPM/IOMP: **International Scientific Exchange Programs, Dhaka, Bangladesh, January 29 – February 2, 2001**, by Azam Niroomand-Rad, USA and Saiful Huq, USA  
-Calendar of Events by Carter B. Schroy, USA

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-**President's Message:** Professional and Legal Responsibility of a Medical Physicist by Oskar Chomicki, Poland  
-IOMP Officers  
-Role and Responsibilities of Medical Physicists in Radiological Protection of Patients, **A position Paper** for Background Session of International Conference on Radiological Protection of Patients in Diagnostic and Interventional Radiology, Nuclear Physics, and Radiotherapy, by Azam Niroomand-Rad, Vice-President, USA  
-Asia-Oceania Federation of Organizations for Medical Physics (AFOMP) by Kin Yin Cheung, AFOMP President, Hong Kong  
-European Medical Physics Short Course Quality Assurance in Cotemporary Imaging and Radiotherapy in **Belfast, Ireland, UK, September 11-15, 2001** by Slavik Tabakov, ETC Chair, UK  
-Secretary General's Report by Gary Fullerton, UK  
-Education and Training Committee Report (ETC) by Slavik Tabakov, UK  
-Status of AAPM/IOMP Libraries – October 1, 2001 by Marilyn Stovall, USA  
-Calendar of Events by Carter B. Schroy, USA  
-IOMP Corporate Members – 2001  
-Publication Committee Brief Summary Report by Gino Fallone, Chair PC, Canada  
-Donation of Used Equipment – PRC Report (July – Dec 2001) by M. Zaidi, USA

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*2002, MPW, Vol. 18, No. 1:*

-President's Message by Oskar Chomicki, IOMP President  
-**Need your help to collect data for Recognition of the Medical Physics Profession by the International Labor Office**, by Azam Niroomand-Rad, Vice-President, USA  
-Secretary General's Report **including re-structuring Financial Committee under George-Niroomand-Rad, IOMP, Mawko, Canada**, by Gary Fullerton, USA  
-Report from the Education and Training Committee (ETC) by Slavik Tabakov, Chair, UK  
-Officers of the IOMP – 2002  
-Activities of **Association of Medical Physicists in Georgia:** the Present Situation and Perspectives by E.G.



Gedevanishvili, Georgia and A.B. Kapanadze, Georgia,  
Translated from Russian by Oskar Chomicki, IOMP  
President, Poland  
-Status of AAPM/IOMP Libraries – March 27, 2002 by Marilyn  
Stovall, USA  
-Pilot Project to study the feasibility of remote education /  
consultation of Medical Physics using the Internet by K.  
Ng, Malaysia  
-**Training Materials EMERALD – II** (European Medical  
Radiation Learning Development) – Internet Issue by Slavik,  
Tabakov, ETC Chair, UK  
-Advertising Rates / Order Form for MPW by Ishmael Parsai,  
Editor, USA  
-**Obituary: Lawrence H. Lanzl, IOMP Past President,  
including Lanzl Institute in Seattle, USA,** by  
Colin Orton, IOMP Past President, USA  
-Report on the 1<sup>st</sup> Asia-Oceania Congress of Medical Physics  
(1<sup>st</sup> AOCMP), Bangkok, Thailand by Kin Yin  
Cheung, President AFOMP, Hong-Kong  
-The First Euro-Asian Congress and the 5<sup>th</sup> National  
Conference of Medical Physics and Engineering  
Medical Physics 2001, Moscow, Russia, June 18-22,  
2001 reported by Oskar Chomicki, IOMP President,  
Poland  
-Medical Physics and Biomedical Engineering Education  
and Training in Poland by Oskar Chomicki, IOMP President  
and Marta Wasilewska-Radwanska, Poland  
-**The State of Medical Physics in Sudan by Omer A. Ali,  
Sudan**  
-International Scientific Exchange Programs, Khartoum,  
Sudan, December 14-18, 2002 by Azam Niroomand- Rad,  
Chair ISEP and Muthana Al-Ghazi, USA  
-Calendar of Events by Carter B. Schroy, USA  
-IOMP Corporate Members – 2002  
-Donation of Used Equipment – PRC Report for January –  
June, 2002 by M. K. Zaidi, USA

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-President's Message by Oskar Chomicki, IOMP President  
-**An Update on Recognition of the Medical Physics  
Profession by National and International  
Organizations** by Azam Niroomand-Rad, Vice President, USA  
-Officers of IOMP – 2003  
-Editor's Corner by Ishmael Parsai, MPW Editor, USA  
-Report from the Education and Training Committee (ETC) by  
Slavik Tabakov, ETC Chair, UK  
-**A New Editor-In-Chief for the Journal of Applied  
Clinical Medical Physics (JACMP),** Edwin C.  
McCullough, USA, succeeding Peter R. Almond, USA,  
Official Journal of American College of Medical Physics  
(ACMP) [www.acmp.org](http://www.acmp.org)  
-Report on the 2<sup>nd</sup> Asia-Oceania Congress of  
Medical Physics (AOCMP) Held in Gyeongju,  
Korea, September 26-28, 2002 by Tae-Suk Suh,  
Chair of AFOMP Scientific Committee, Korea  
-Expanding Responsibilities for Medical Physicists in Asia-  
Oceania and its Essential International Links: The

Twin Role of AFOMP and IOMP by Kin- Yin Cheung, Hong  
Kong and KH Ng, Kuala Lumpur, Malaysia  
-Status of AAPM/IOMP Libraries – September 2002 by  
Marilyn Stovall, USA  
-IOMP Corporate Members – 2002  
-International Medical Physics College at ICTP in Trieste, Italy,  
September 2-27, 2002, Reported by Slavik  
Tabakov, ETC Chair, UK and Perry Sprawls, USA  
-**Report on the First Cuba-USA International Conference on  
Medical Physics Held in Havana, Cuba, April 8-10, 2002,**  
Reported by Azam Niroomand-Rad, IOMP Vice-President,  
USA, Roberto Fraxedas, Vice-  
-President of Cuban Physical Society, Cuba, Victor Fajer,  
President Cuban Physical Society, and Irving  
Lerch, Director of International Affairs, American Physical  
Society, USA  
-Report on the **AAPM/IOMP International Scientific  
Exchange Programs: Radiation Therapy Course &  
Workshop Held on March 09-13, 2002 in Saudi Arabia,  
Riyadh,** Reported by Muthans Al- Ghazi, USA and Azam  
Niroomand-Rad, USA  
-**A Plea to Medical Physicists** by M. R. Raju, Los Alamos  
National Laboratory, Los Alamos, New Mexico, USA,  
Reported by Azam Niroomand-Rad, IOMP Vice President,  
USA  
-**World Congress 2003, Sydney, Australia, August 24-29,  
2003**  
-A Letter to the Editor: **The Origins of "Recognizable  
Specialties" in Medical Physics** by W. Alan Jennings,  
Founder Member of HPA (1943) and President HPA  
(1966-1967), S. W. Smye, President IPEM (2002), and  
Ian Isherwood, CBE, Chair RHHCT  
(1992-2002)  
-Advertising Rates and Order Form by Ishmael Parsai, Editor,  
USA  
-Donation of Used equipment – PRC Report for July-  
December 2002 by M.Zaidi, USA  
-Calendar of Events by Carter B. Schroy, USA

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-President's Message **including definition of "Medical  
Physics" and "Medical Physicist"** by Oskar  
Chomicki, President, Poland  
-Vice-President Report: **Meeting the Needs** by Azam  
Niroomand-Rad, USA  
-Officers of IOMP – 2003  
-A Personal View of the Achievements and Potential of IOMP  
from **Outgoing Secretary General (1998-  
2003)** by Gary Fullerton, Secretary General, USA  
-Editor's Corner by Ishmael Parsai, Editor, USA  
-Status of AAPM/IOMP Libraries (June 2003), by Marilyn  
Stovall, USA  
-**Longevity as a Measure of Radiation Health Effects by John  
R. Cameron, USA**  
-**Archived Radiation Discussion Rooms on the Web by John  
R. Cameron, USA**

- Publication Committee Summary Report by Gino Fallone, Chair PC, Canada
- Announcement: **Free Publication Availability: 11 AAPM Task Group Reports** ([www.aapm.org/pubs/reports](http://www.aapm.org/pubs/reports)), by Julie E. Dawson, Chair AAPM Publication Committee, USA
- Report from the education and Training Committee (ETC) by Slavik Tabakov, ETC Chair, UK
- New E-Training Materials for Medical Physics by Slavik Tabakov, ETC Chair, UK
- Donation of Used equipment – PRC Report for January – June 2003 by M.Zaidi, USA
- Advertising Rates and Order Form by Ishmael Parsai, Editor, USA
- Calendar of Events by Carter B. Schroy, USA
- IOMP Recognizes Siemens as the Corporate Affiliate for 2003

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- President's Message** including issues discussed at WC-2003 in Sydney, Australia, by **Azam Niroomand- Rad, IOMP President, USA**
- Vice-President Report by **Barry Allen**, Australia
- Officers of IOMP – 2003
- Secretary General Report by Peter H S Smith, UK
- Editor's Corner by Ishmael Parsai, Editor, USA
- A Short Report of the IOMP Professional Relations Committee (Term2000 – 2003) by **Stelios Christofides**, Chair PRC, Cyprus
- Libraries Report (August 1, 2000 – July 31, 2003) by **Marylin Stoval**, Curator of IOMP/AAPM - International Library Programs, USA
- Treasurer's and Finance Committee Report by **George Mawko**, Chair, Finance Committee, Canada
- Report from the Education and Training Committee by **Slavik Tabakov**, Chair of ETC, UK
- Announcement: Job Opening for Curator of IOMP/AAPM by **Marylin Stoval**, Curator of IOMP/AAPM International Library Programs, USA
- Report of the Science Committee by Cari Borrás, Chair, USA
- Calendar of Events by **Carter B. Schroy**, USA
- Donation of Used equipment – PRC Report for January – June 2003 by M. Zaidi, USA
- Report on the AAPM/IOMP International Scientific Exchange Programs- Diagnostic and Nuclear Medicine Physics Course and Workshop held in Sao Paulo, Brazil, November 13-17, 2002 by **Adel Mustafa**, Co-Chair AAPM/IOMP ISEP, USA
- Report on the AAPM/IOMP International Scientific Exchange Programs-Diagnostic and Nuclear Medicine Physics Course and Workshop held in Cairo, Egypt, February 23-27, 2003 by **Adel Mustafa**, Co-Chair AAPM/IOMP ISEP, USA

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- President's Message including information on IOMP/IUPESM to become an **IUPAP (International Union for Pure and Applied Physics) Affiliated Commission on Medical Physics**, information on The World Year of Physics (WYP-2005) by UNESCO, IUPAP, IAEA, and ICTP, by **Azam Niroomand-Rad, USA**
- Officers of IOMP – 2004
- Secretary General Report by **Peter H S Smith**, UK
- Editor's Corner by **Ishmael Parsai**, Editor, USA
- Report of the Science Committee by **Cari Borrás**, Chair, USA
- Report from the Education and Training Committee by **Slavik Tabakov**, Chair of ETC, UK
- Establishment of **Rules Committee** by **Fridtjof Nusslin**, Chair of Rules Committee, Germany
- 3rd International WONUC Conference** on the Effects of Low and Very Low Doses of Ionizing Radiation on Human Health, **October 21-23, 2003, Tehra**

- n Iran**, Reported by **Klaus Becker**, Berlin, Germany
- Donation of Used equipment – PRC Report for July-December 2003 by **M. Zaidi**, USA
- Calendar of Events by **Carter B. Schroy**, USA
- A Medical Physics Museum as Part of the Science Museum, by **John Cameron**, USA
- Status of AAPM/IOMP Libraries Report by **Allan Wilkinson**, New Curator of Libraries, USA
- Announcement: New Publication From the **IAEA: Standards and Codes of Practice in Medical Radiation Dosimetry**
- Euro-Conference on Medical Physics Training with EMIT e-Learning Materials by **Slavik Tabakov**, Coordinator of EMIT and EMERALD Projects, UK
- Global Medical Physics Mailing List: **listserv@lists.wayne.edu**, Report by **Carter Schroy**, MPW Associate Editor, USA
- Announcement: 3rd South East Asian Congress of Medical Physics, and 4th Asia-Oceania Congress of Medical Physics, Kuala Lumpur, Malaysia, September 27-29, 2004
- Announcement: World Congress on Medical Physics and Biomedical Engineering, Seoul, Korea, August 27- Sept. 1, 2006, by Sun I Kim, President and Tae Suk Suh, Co-President, Korea
- Announcement: International Scientific Exchange Program, The Physics of Radiation Therapy, Chengdu, Sichuan Province, China, August 23-27, 2004 Report by **Azam Niroomand-Rad**, President, USA
- The Second Southeast Asian Congress of Medical Physics, Bangkok, Thailand, November 12-14, 2003 Report by Anchali Krisanachinda, Thailand and Hoong Ng, Malaysia
- Gold Medal of Sociedad Espanola de Fisica Medica (SEFM) to **Cari Borrás, USA** at the XIV Congress of SEFM, Vigo, Spain, June 2003

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-President's Message including establishment of **International Commission on Medical Physics (ICoMMP) an IUPAP Affiliated Commission (C.4) on Medical Physics** and information on International Conference on Medical Physics (ICMP) Initiatives with IOMP Chapters, and information on The World Year of Physics 2005 by **Azam Niroomand-Rad, USA**

-Officers of IOMP – 2004

-Secretary General Report by **Peter H S Smith, UK**

-World Congress on Medical Physics and Biomedical Engineering, Report by **Barry Allen, Vice President, Australia**

-Announcement: World Congress on Physics and Sustainable Development, Durban, South Africa, October 31-November 2, 2005

-Report on the **China's AAPM/IOMP International Scientific Exchange Programs (ISEP)**, Advances in - Radiation Oncology Physics Course/Workshop, Chengdu, China, August 23-27, 2004 by **Raymond**

-Announcement: 14<sup>th</sup> International Conference on Medical Physics, Nuremberg, Germany, September 14-17, 2005

-Report of the Science Committee by **Cari Borrás, Chair SC, USA**

-Status of AAPM/IOMP Libraries Report by **Allan Wilkinson, Curator, USA**

-**Classification of Medical Physics Profession** by **Azam Niroomand-Rad, IOMP President, USA**

-Editor's Corner by **Ishmael Parsai, Editor, USA**

-Third Southeast Asian Congress of Medical Physics and Fourth Asia- Oceania Congress of Medical Physics Report by **K H Ng, Malaysia**

-Current QA/QC Practice in Radiotherapy and Oncology Report of a Workshop held in Bangkok, Thailand, August 30 – September 1, 2004, by Cheng Saw, USA, Anchali Krisanachinda, Thailand, and Sivalee Suriyapee, Thailand

- Announcement: International Scientific Exchange Programs, The Physics of Radiation Therapy, **Manila, Philippines**, May 2005 by **Azam Niroomand-Rad, USA** and **Saiyed Shah, USA**

- Report of the Sixth Congress of Medical Physics Held in Mashhad, Iran, May 9-11, 2004 by **Ishmael Parsai, USA** and **M. Taghi Bahreyni, Iran**

- A Report on: Asia Oceania Federation of Medical Physics by **Barry Allen, Australia**

- **Radiation Discussion Rooms (RDRs) on the Virtual Radiation Museum (VRM)** by **John Cameron, USA**

- Donation of Used equipment – PRC Report by **M. Zaidi, USA**

- Report from the Education and Training Committee by **Slavik Tabakov, ETC Chair, UK**

- Report of the IOMP Professional Relations Committee by **Stelios Christofides, PRC Chair, Cyprus**

- Calendar of Events by **Carter B. Schroy, USA**

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-President's Message including information on IOMP co-sponsorship of the World Congress on Physics and - Sustainable Development (WC-PSD) for The World Year of Physics 2005 by **Azam Niroomand-Rad, USA**

-Officers of IOMP – 2005

-Secretary General Report by **Peter H S Smith, UK**

-Report of the Science Committee by **Cari Borrás, Chair SC, USA**

-**In Memory of Prof. John R. Cameron** by **Azam Niroomand-Rad, President, USA**

-Editor's Corner by **Ishmael Parsai, Editor, USA**

-Treasurer's and Finance Committee Report 2004 by **George Mawko, Treasurer, Canada**

-Donation of Used equipment – PRC Report for January – June 2005 by **M. Zaidi, USA**

-Announcement: 14<sup>th</sup> International Conference on Medical Physics, Nuremberg, Germany, September 14-17, 2005

-Announcement: **World Congress on Physics and Sustainable Development, Durban, South Africa**, Oct. 31-Nov. 2, 2005

31-Nov. 2, 2005

-Calendar of Events by **Carter B. Schroy, USA**

-Announcement: World Congress on Medical Physics and Biomedical Engineering, Seoul, Korea, August 27- Sept. 1, 2006

-Status of AAPM/IOMP Libraries Report by **Allan Wilkinson, Curator of Libraries, USA**

-Announcement: World Congress 2006, Seoul, Korea – Travel Assistance Program by **Stelios Christofides, PRC Chair, Cyprus**

-**First International Prize for Education and Training: The EU Leonardo Da Vinci Award – Comes to**

**Medical Physics**, by **Slavik Tabakov, ETC Chair, UK**

-Report from the Education and Training Committee by **Slavik Tabakov, ETC Chair, UK**

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-President's Message including information on **Classification of Medical Physics Profession on ILO (ISCO-08) List**, information on International Commission on Medical Physics (ICoMMP), and on Termination of IOMP Agreement with Institute of Physics Publishing (IOPP), by **Azam Niroomand-Rad, IOMP President, USA**

-Officers of IOMP – 2005

-Secretary General Report by **Peter H S Smith, UK**

-Report of the Science Committee by **Cari Borrás, Chair SC, USA**

-ICMP 2005: 14<sup>th</sup> International Conference of Medical Physics: A Great Success, Report by **Peter H S Smith, UK** and **Willi Kalender, Nuremberg, Germany**

-Announcement: World Congress on Medical Physics and Biomedical Engineering, Seoul, Korea, August 27- Sept. 1, 2006

-Announcement: Demonstrate the Quality and Commitment of Your Radiation Oncology Practice with



**ACRO** (American College of Radiation Oncology)

, Report by **Jeanne Carroll**, Toledo, Ohio, USA

-Editor's Corner by **Ishmael Parsai**, Editor, USA

**-Advertising Rates / Order Form for Medical Physics World** by **Ishmael Parsai**, Editor, USA

**-Consultation: A Review of IOMP's Activities and DRAFT Strategy**, Report by Secretary General, **Peter H S Smith**, UK

-AAPM/IOMP International Scientific Exchange Programs-Regional Course & Workshop: Current Practices and Advances in Radiation Therapy Physics, Manila, Philippines, August 1-5, 2005, Report by **Saiyid Shah**, USA

-Donation of Used equipment – PRC Report for July – December 2005 by **M. Zaidi**, USA

-Calendar of Events by **Carter B. Schroy**, USA

-Announcement: South East Asian Federation of Organizations for Medical Physics (SEAFOMP) by **K H Ng**, President SEAFOMP, Malaysia

-Status of AAPM/IOMP Libraries Oct. 2005 Report by **Allan Wilkinson**, Curator of Libraries, USA

-Special Issue on e-Learning in Medical Engineering and Physics by **Slavik Tabakov, ETC** Chair, UK

-Report from the Education and Training Committee by **Slavik Tabakov, ETC** Chair, UK

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**-Last President's Message** summarizing information on International Labor Organization (ILO) for **Classification of Medical Physics Profession on International Standard Classification of Occupations (ISCO-08)**, information on mid-term International Conferences in Medical Physics (ICMP), **Strategy Planning Document** (2006-2012), and formation of national adhering membership, formation of Corporate Liaison Officer, formation of International Commission on Medical Physics (ICoMMP), establishment of IUPAP/IOMP **Young Scientist Award** in Medical Physics, and IOMP received \$10,000.00 from World Conference on Physics and Sustainable Development (WSPSD) for projects in medicine and health, by **Azam Niroomand-Rad, USA**

-Officers of IOMP – 2006

-Secretary General Report by **Peter H S Smith**, UK

-Announcement: International Conference on Quality Assurance and New Techniques in Radiation Medicine, organized by International Atomic Energy Agency (IAEA), Nov. 13-15, 2006

-Report of the Science Committee by **Cari Borrás**, Chair SC, USA

-Report from the Education and Training Committee by **Slavik Tabakov, ETC** Chair, UK

-Treasurer's Three Year Report by **George Mawko**, Treasurer, Canada

-Donation of Used equipment – PRC Report for Jan-June 2006 by **M. Zaidi**, USA

-Editor's Corner by **Ishmael Parsai**, Editor, USA

-Status of AAPM/IOMP Libraries May 2005 Report by **Allan Wilkinson**, Curator of Libraries, USA

-Calendar of Events by **Carter B. Schroy**, USA

-Workshop "Medical Physics Education and Training – A Global Perspective, by **Slavik Tabakov, ETC** Chair, UK

-Is there a Role for Hyperbaric Oxygen in Future Radiation Therapy? – Part 1 by **John Feldmeier** USA and **Ishmael Parsai**, USA

**-Advertising Rates / Order Form for Medical Physics World** by **Ishmael Parsai**, Editor, USA

-Announcement: International Scientific Exchange Programs, Buenos Aires, **Argentina**, November 18-21, 2006 by **Azam Niroomand-Rad**, USA and **Doracy Fontenla**, USA

-Last Announcement: World Congress on Medical Physics and Biomedical Engineering, **Seoul, Korea**, **August 27-Sept. 1, 2006**

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**-Incoming President's Report** by **Barry J Allen**, Australia

-Officers of IOMP – 2006

-Secretary General Report by **Peter H S Smith**, UK

-About the IOMP Publications Committee, Report by **William Hendee**, Chair Publication Committee, USA

-Report of the Science Committee by **Cari Borrás**, Chair SC, USA

-A Report on World Congress on Medical Physics and Biomedical Engineering, Seoul, Korea, August 27- Sept. 1, 2006 by **Xie Nan-Zhu**, China and **Cheung Kin-Yin**, Kong Kong

-Donation of Used equipment – PRC Report for July-December 2006 by **M. Zaidi**, USA

-Is there a Role for Hyperbaric Oxygen in Future Radiation Therapy? - Part 2 by **John Feldmeier** USA and **Ishmael Parsai**, USA

-Editor's Corner by **Ishmael Parsai**, Editor, USA

-IOMP Education and Training Committee – Short Report for the Period 2003-2006 by **Slavik Tabakov, ETC** Chair, UK

-Announcement: Books Sale by **Taylor & Francis** Group, UK

-Calendar of Events by **Carter B. Schroy**, USA

-Status of AAPM/IOMP Libraries October 2006 Report by **Allan Wilkinson**, Curator of Libraries, USA

**-Advertising Rates / Order Form for Medical Physics World** by **Ishmael Parsai**, Editor, USA

**-Message from the Past President** by **Azam Niroomand-Rad, USA**

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**-President's Report** by **Barry J Allen**, Australia

-Officers of IOMP – 2007

-Secretary General's Report by **Peter H S Smith**, UK

-Report of the Science Committee, including the role of medical physicists in the application of the new ICRP recommendations by **Cari Borrás**, SC Chair, USA

-Announcement: **2006 ANA (Australian Nuclear Association) Annual Award** Citation: Award was received by **Prof. Barry J Allen**, Australia

-Editor's Corner by **Ishmael Parsai**, Editor, USA

-Conference Report for the 2006 Biophysics Seminar and the 4<sup>th</sup> Southeast Asian Congress of Medical Physics (SEACOMP), Kakarta, Indonesia, November 7-11, 2006, by **Kwan-Hoong Ng**, Malaysia, **Rachmat Adi**, Indonesia, and **Djarwani Soejoko**, Indonesia

-Announcement: Books Sale by Taylor & Francis Group, UK

-Announcement: The 7<sup>th</sup> Asia-Oceania Congress on Medical Physics and the 13<sup>th</sup> National Annual Meeting of Medical Physics, Huangshan, China, August 23-27, 2007, Report by K.Y. Cheung, Hong Kong

-**Medical Physics Website News-Analysis-R&D** Report by Institute of Physics Publishing, Co-publisher of Physics in Medicine and Biology (PMB)

-Announcement: International Congress Biophysics, Montevideo, Uruguay, August 27-31, 2007, by **Fridtjof Nusslin**, Germany

-Donation of Used equipment – PRC Report for July-December 2006 by **M. Zaidi**, USA

-A NATO Workshop Directed by IOMP Physicist, Istanbul, Turkey, October 12-16, 2006, Report by **M. Zaidi**, USA

-Calendar of Events by **Carter B. Schroy**, USA

-Report from the Education and Training Committee (ETC) by **Anchali Krisanachinda**, ETC Chair, Thailand

-Announcement: **"Educator's Forum" to be created**, by **Ishmael Parsai**, Editor, USA

-**Advertising Rates / Order Form for Medical Physics World** by **Ishmael Parsai**, Editor, USA

-Report from the Rules Committee by **Fridtjof Nusslin**, Germany

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-**News & Views from the President** by **Barry J Allen**, Australia

-Officers of IOMP – 2007

-Secretary General's Report by **Peter H S Smith**, UK

-Editor's Choice by **Ishmael Parsai**, Editor, USA

-Announcement: Congratulations to Authors for the Highest Cited Paper in Physics in Medicine and Biology (PMB) for (2002-2006), Reported by **Simon Harris**, PMB Publisher, UK

-Participation by the IOMP in the IAEA Technical Meeting on the Revision of the Basic Safety Standards (Safety Series 115), July 16-20, 2007, Vienna, Austria, Report by **Kin Yin Cheung** Kong Kong, **Stelios Christofides**, Cyprus and **Hans Svensson**, Sweden

-Treasurer's and Finance Committee Report 2006 by **George Mawko**, Chair, Finance Committee, Canada

-Donation of Used equipment – PRC Report for July-December 2007 by **M. Zaidi**, USA

-Integration of Modern Medical Imaging with Radiation Oncology, Report by **Kin Yin Cheung**, Kong Kong, and **Yimin Hu**, China

-Status of AAPM/IOMP Libraries October 2007 Report by **Allan Wilkinson**, Curator of Libraries, USA

-IOMP Specialized Medical Physicists List, Report by **Cari Borrás**, Science Committee Chair, USA

-Calendar of Events by **Carter B. Schroy**, USA

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*2008, MPW, Vol. 24, No. 1:*

-**News & Views from the President** by **Barry J Allen**, Australia

-Officers of IOMP – 2008

-Secretary General's Report by **Peter H S Smith**, UK

-Vice President's Status Report: World Congress on Medical Physics and Biomedical Engineering, Munich, Germany, September 7 – 12, 2009, by **Fridtjof Nusslin**, Germany

-Report on the AAPM/IOMP International Scientific Exchange Programs (ISEP), Diagnostic and Therapeutic Physics: Current Practice, Recent and Future Advances, Manama, Kingdom of Bahrain, November 18-22, 2007, by **Muthana Al-Ghazi**, Irvine, CA, USA

-A Message from the IOMP Publications Committee (PC) including **Bill of Rights For Scientists and Engineers**, by **William Hendee**, Chair of PC, Milwaukee, WI, USA

-An Editorial on Plagiarism by **William Hendee**, Chair of PC, WI, USA

-Report of the Education and Training Committee (ETC) by **Anchali Krisanachinda**, Chair, Thailand

-Report of the Science Committee (SC): IOMP Represented in a meeting of the BIPM (Bureau International des Poids et Mesures) by **Hans Svensson**, Sweden and **Cari Borrás**, SC Chair, USA

-Status of AAPM/IOMP Libraries April 2008 Report by **Allan Wilkinson**, Curator of Libraries, USA

-Post Conference Report of the 16<sup>th</sup> IOMP International Conference on Medical Physics (ICMP-08) – "Current and Future Sciences in Radiation Medicine", UAE, April 14-17, 2008, by **Jamila Salem AlSuwaidi**, Emirates and **Peter HS Smith**, UK

-Awards: 2007 IUPAP Young Scientist Prize in Biological Physics to **Dr. Habib Zaidi**, Switzerland

-Announcement: Books Sale by **Taylor & Francis** Group, UK

-Donation of Used equipment – PRC Report for January-June 2008 by **M. Zaidi**, USA

-The **Medical Physics Educator's Forum** by **Ishmael Parsai**, USA, and **William Hendee**, USA

-Shared Resources to Enhance Medical Physics Education - A Global Perspective by **Perry Sprawls**, USA

-Calendar of Events by **Carter B. Schroy**, USA

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*2008, MPW, Vol. 24, No. 2:*

-**The President's Editorial** including excerpt from the Welcome Speech to the European Conference and 14<sup>th</sup>

Congress of the Polish Society of Medical Physics, Krakow, Poland, September 17-21, 2008 entitled: **“Medical Physics and Engineering 110 Years after the Discovery of Polonium and Radium”** by **Barry J Allen**, IOMP President, Australia

- Officers of IOMP – 2008
- Secretary General’s Report by **Peter H S Smith**, UK
- The IOMP’s Past-President Report**, Outline of Activities since June 2008, including revision of the Corporate Membership Application Form, **formation of History Sub Committee**, exploring the possibility of having **Bill Gates** to be Keynote Speaker for the Opening Ceremony at WC-2009, IOMP Booth at the **AAPM 50<sup>th</sup> Anniversary in Houston, USA, July 27- 31, 2008**, an Update on the International Scientific Exchange Programs (**ISEP**), and An Update on the Status of Medical Physics Profession with the International Labor Organization (**ILO**) – **ISCO-08** by **Azam Niroomand-Rad**, IOMP Past President, USA
- Women in Medical Physics Report including Percentage of Female Medical Physicists per Regional Organization (July 2008) by **Cari Borrás**, USA
- The Medical Physics Educator’s Forum: **EMITEL**-An International Project Developing the First Medical Physics **e-Encyclopedia** by **Slavik Tabakov**, EMITEL Coordinator, UK
- Editor’s Choice by **Ishmael Parsai**, Editor, USA
- Post Conference Report: A Report on the 5<sup>th</sup> Korea-Japan Joint Meeting on Medical Physics, JEJU, Korea, September 10-12, 2008, by **Tae Suh Suk**, Korea, **Youngyish Han**, Korea, and **Soo Il Kwon**, Japan
- Becoming a Better Teacher of Medical Physics – Report of the **“Workshop on Becoming a Better Teacher of Medical Physics”**, League City, TX, USA, August 2008 by **William Hendee**, USA and **Herbert Mower**, USA
- Announcement: Invitation to Bid to Host the **18<sup>th</sup> ICMP** (International Conference on Medical Physics in 2010-2011) by **Peter HS Smith**, Secretary General, UK
- Unforgettable Events with AAPM and IOMP in the last 28 Years by **Nan- Zhu Xie (83 years old)**, Guangzhou, China
- Calendar of Events by **Carter B. Schroy**, USA
- Donation of Used equipment – PRC Report for January-June 2008 by **M. Zaidi**, USA

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*2009, MPW, Vol. 25, No. 1:*

- Presidential Address WC-2009, Three Years Behind the Mast, by **Barry J Allen**, Australia
- Officers of IOMP – 2009
- From the Desk of the Secretary General including information on the International Standard Classification of Occupations (**ISCO-08**) and presentation by **Dr. David Hunter** from **ILO** at **WC-2009** by **Peter H S Smith**, UK
- Announcement: New Regional Medical Physics Groups: **Federation of African Medical Physics Organizations (FAMPO)** and **Middle East Federation of Medical Physics (MEFOMP)** by **Peter H S Smith**, UK

- News & Reports from the IOMP Publications Committee by **William Hendee**, Chair PC, USA
- Announcement: **New IOMP Website under construction by Inch Communications Ltd**, UK
- Announcement: Books Sale by **Taylor & Francis Group**, UK
- New Officers of IOMP**: Following elections by the IOMP Council, the following Officers will take up their posts at the General Assembly at the World Congress 2009-**President: Fridtjof Nusslin, Germany, Vice-President: Kin Yin Cheung, Hong Kong, Immediate Past President: Barry Allen, Australia, Secretary- General: Madan Rehani, Austria, and Treasurer: Slavik Tabakov, UK**
- Scientific Events Organized by the IOMP Science Committee at the WC 2009, Munich, Germany, September 7-12, 2009
- The World Health Organization invites the IOMP to collaborate in the Global Initiative on Radiation Safety in Health Care Settings, Report by **Cari Borrás**, USA, and **Peter HS Smith**, UK
- EMITEL Encyclopedia of Medical Physics with Multilingual Dictionary** including list of contributors from **35 countries**, Report by **Slavik Tabakov, EMITEL Coordinator**, UK
- The IUPESM Award of Merit**, was received by **Gary Fullerton, Colorado, USA**
- Announcement: IOMP Collaborates in **IAEA Project “Strengthening Medical Physics in Radiation Medicine”**
- Announcement: 25% Discount for IOMP Members for 15 New Books to be Published by **Taylor & Francis Group, UK**
- IOMP Honors Distinguished Medical Physicists** at the World Congress on Medical Physics and Biomedical Engineering, at Munich, Germany, September 7-12, 2009: **Marie Sklodowska-Curie Award: Azam Niroomand-Rad, USA, Harold Johns Medal: Madan Rehani, Austria, and IUPAP Young Scientists Award in Medical Physics: Leif Schroder, Germany**
- Donation of Used equipment – Report of the Professional Relations Committee (PRC) by **M. Zaidi**, USA
- Calendar of Events by **Carter B. Schroy**, USA

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*2009, MPW, Vol. 25, No. 2:*

- The President’s Editorial** by **Fridtjof Nusslin, IOMP President, Germany**
- Secretary General’s Report** by **Madan Rehani, Austria**
- Officers of IOMP – 2010
- Spotlight on Radiobiology** by **Jolyon Hendry, IAEA, Austria**
- Editor’s Choice** by **Ishmael Parsai, Editor, USA**
- 50<sup>th</sup> Anniversary of BIPM (International Bureau of Weights and Measures)**, June 19, 2009, Paris, France, Report by **Cari Borrás, USA**
- Donation of Used Equipment - Report of the Professional Relations Committee, by **M. Zaidi, USA**
- Calendar of Events by **Carter B. Schroy, USA**



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2010, MPW, Vol. 1, No. 1:

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- “Cancer and Biophysics” The President’s View by Fridtjof Nüsslin, Munich June 2010
- Welcome to the Electronic Medical Physics World by Editor, Donald Frey, USA
- A Student in Medical Physics in Australia by Price Jackson, Australia
- Comparative Analysis of Co-60 Intensity-Modulated Radiation Therapy by Fox C, Romeijn HE, Lynch B, Men C, Aleman DM and Dempsey, JF from Phys Med Bio. 2008, June 12, 539(12) 3175-88, submitted by Theratronics.com and Gamatherapy.com
- The Status of Medical Physics in the Middle East Federation of Medical Physicists (MEFOMP) Associated Countries, by Hossein Mozdarani, Representative of MEFOMP in IOMP Scientific Committee, Iran
- New Eligibility Requirements for the American Board of Radiology
- (ABR) Certification in Radiologic Physics – An Overview of the Changes and the Rationale by Stephen R. Thomas, Ph.D., Associate Executive Director, Radiologic Physics, The American Board of Radiology, USA
- The ICTP College on Medical Physics - *Meeting Educational Needs in the Developing Countries* by Perry Sprawls, ICTP faculty Member since 1996, USA

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2010, MPW, Vol. 1, No. 2:

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- Obituary: Professor Keith Boddy (1937-2010) by Colin Orton (USA) & Oskar Chomicki (Poland), Past Presidents
- Welcome to the Electronic Medical Physics by Donald Frey, Editor, USA
- Teaching Medical Physics: Innovations in Learning by Bill Hendee, USA
- One Model for Teaching Clinical Skills to Medical Physics Master’s Degree Students: Employing a Clinical Skills Workbook as Part of a Structured Clinical Practicum Course, by Mary Ellen Smajo, USA, Alexander Markovic, USA
- Image Wisely™ Focuses on Dose Reduction in Adults by Matthew Robb, USA

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2011, MPW, Vol. 2, No. 1:

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- Welcoming the Delegates to the 18th International Conference on Medical Physics, 6th Latin American Congress on Medical Physics, 15th Brazilian Congress on Medical Physics, 5th Instrumentation and Medical Imaging Symposium, by Fridtjof Nüsslin, President of the IOMP, Germany
- MEDICAL PHYSICS EDUCATION in the CONTEXT of ADVANCED MEDICAL EDUCATION, by

Donald Frey, Editor, USA

- An Inside Look at the Trials and Tribulations of Medical Physics and Radiation Therapy in Africa: A Case Study at Institut Curie de L’Hopital, by Aristide Le Dantec, Dakar, Senegal
- 18th International Conference on Medical Physics, Porto Alegre, Brazil, April 2011, by Ana Maria Marques (Portugal), Cari Borrás (USA) and Paulo Costa (Brazil)

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2011, MPW, Vol. 2, No. 2:

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- Obituary: Professor Hans Svensson (1935-2011), IOMP Secretary General, by Fridtjof Nüsslin, IOMP President, Germany
- A New Associate Editor, Dr. Bashar Issa (UAE) by Donald Frey, Editor, USA
- Patient Safety and the Medical Physicist by William Hendee, Medical Physics Editor, USA
- Simulation Packages or Programming as Teaching Tools in Medical Physics by Bashar Issa, Associate Editor, UAE
- Radiation Concerns and the Medical Physicist by Donald Frey, Editor, USA
- International Medical Physics Certification Board by: Raymond K. Wu, PhD, Chairman, IOMP Professional Relations Committee, USA

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2012, MPW, Vol. 3, No. 1:

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- Report on World Congress on Medical Physics and Biomedical Engineering, May 26-31, 2012, Beijing, China
- Message from the new Editor by Virginia Tsapaki, Greece
- President’s Message by Kin Yin Cheung, Hong Kong
- Review IOMP term of office (2009-2012) by Fridtjof Nüsslin, Immediate Past President, Germany
- From the desk of IOMP Secretary-General by Madan Rehani, Austria
- Education and Training of Medical Physicists in Radiation Protection, by John Damilakis, Chair, IOMP ETC, Greece
- Professional Relations Committee Report by Raymond WU, PRC Chair, USA
- Report from the IOMP Science Committee, by William Hendee, Chair SC, USA
- From the Awards and Honors Committee, by Thomas Kron, A&H Chair, Australia
- International Library Program Overview by Allen Wilkinson, ILP SC Chair, USA
- Report of the European Federation of Organizations for Medical Physics (EFOMP) by Peter Sharp, EFOMP President, UK
- Middle East Federation of Medical Physics (MEFOMP) by Ibrahim Duhaini, MEFOMP President, Lebanon
- 20 Years ICTP on Medical Physics by Slavik Tabakov, Co-Director of ICTP College on Medical Physics, IOMP Vice-President, UK

- The e-Learning Modules EMERALD and EMIT Available for Free Use by Slavik Tabakov, Coordinator of EMERALD and EMIT, IOMP Vice-President, UK
- History Sub Committee (HSC) Report to IOMP Council, World Congress 2012, Beijing, China by Azam Niroomand-Rad, HSC Chair USA
- Announcement: International Conference on Medical Physics (ICMP) 2013 and IOMP 50<sup>th</sup> Anniversary, Sept. 1-4, 2013, Brighton, UK
- Report on AAPM/IOMP International Scientific Program ( ISEP), Diagnostic Physics Course in Patras, Greece, June 17-20, 2011 by George Kagadis, Host Co-Director (Greece) and Eugene Lief, Faculty, USA
- Report on AAPM/IOMP International Scientific Program (ISEP), Workshop on Physics of Advanced Radiotherapy, Tata Memorial Hospital, Mumbai, India, March 17-19, 2011 by D. D. Deshpande, Organizing Secretary (India) and Jatinder Palta, Course Content Coordinator, USA
- IOMP Policy Statement No. 1 – The Medical Physicist: Role and Responsibility by Kin Yin Cheung, Hong Kong, Chair of IOMP Working Group on Policy Statement No. 1, August 2010
- IOMP Policy Statement No. 2: Basic Requirements by Education and Training of Medical Physicists by Kin Yin Cheung, Hong Kong, Chair of IOMP Working Group on Policy Statement No. 2, August 2010
- IOMP/AAPM Used Equipment Donation Program (UEDP) Report Jan-Jun 2012 by M. Zaidi, UEPD Manager, USA
- Calendar of Events by Ibrahim Duhani, Calendar Editor, Lebanon

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- Message from the Editor
- President's Message
- From the desk of Secretary-General, IOMP
- Science Committee Report
- Education and Training Committee: Key Priorities and Challenges
- International Day of Medical Physics – 7 November 2013
- Medical Physics International – a new Professional Journal of IOMP
- Statement of Collaboration between IOMP and IRPA on the Use of Ionizing Radiation in Health Care
- IOMP National Members Directory 2012
- From the Awards and Honours Committee
- Publication Committee Report, PC
- Professional Relations Committee Report, PRC
- A Joint Symposium with AAPM in Charlotte, NC, US
- Report on Endorsed International Workshop (IOMP, TMPS, TSTRO, AAPM)
- Visit of Prof. Fridtjof Nüsslin to Hamad Medical Corporation in QATAR
- Donation of Used Equipment, PRC Report for July-December 2012

- AAPM Working Group on Standardization of CT Nomenclature and Protocols Releases CT Dose -Education Slides
- R&D at the Department of Biomedical Physics & Technology, University of Dhaka, Bangladesh
- Calendar of Events

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- Message from the Editor
- President's Message
- From the Awards and Honours Committee
- Use of Electronic Systems for Managing Work of IOMP
- The First Issue of the New IOMP Journal Medical Physics International
- MPW at ECR2013
- IOMP Strengthens Ties with ESR at ECR 2013
- Professional Relations Committee Newsletter
- International Day of Medical Physics: Raising Awareness of our Profession
- African Workshop at ICMP2013, Brighton, UK
- ALFIM: Looking for Overcoming Challenges and Working for Medical Physics Improvements in Latin America
- FAMPO– Status and Activities Report
- The IAEA Directory of Radiotherapy Centers (DIRAC)
- MEFOMP Activities During the Last 6 Months
- Editorial: Risk of Medical Imaging
- Donation of Used Equipment – PRC Report for Jan-Jun 2013
- 12th Asia-Oceania Congress of Medical Physics (AOCMP) and 10th South East Asian Congress Of Medical Physics (SEACOMP)
- Calendar of Events

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- Message from the Editor
- MPW Worldwide
- President's Message
- From Secretary General desk
- 50 Outstanding Medical Physicists: 1963-2013
- The 1st year of the IOMP Journal Medical Physics International (MPI)
- Did You Celebrate the First International Day of Medical Physics? If Not, Next Year You Should!
- Report from the IOMP Science Committee
- Donation of Used Equipment - PRC Report
- From the Awards and Honours Committee
- HINARI (Programme for Access to Research in Health)
- Outstanding Contributions over the last 50 Years - Poster
- Publication Committee Report
- IOMP Project for Medical Physics Development in Africa
- IOMP Representation at the WHO Global 2013 for Medical Devices
- IPEM hosts ICMP2013

- AAPM/ISEP Diagnostic Imaging Workshop 2013, Montien Hotel – Surawong Road, Bangkok, -Thailand, November 6th – 8th, 2013
- MEFOMP Activities during the last 6 months
- Calendar of Events

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- Message from the Editor
- President's Message
- IOMP Female in Medical Physics Group
- From Secretary General desk
- AFROG VII – Conference of the African Radiation Oncology Group
- From the Awards and Honours Committee
- The top 3 reasons why we should celebrate the International Day of Medical Physics this year
- Professional Relations Committee Report
- CALENDAR OF EVENTS 2014 - 2015
- Recent Activities of EFOMP
- 8th European Conference of Medical Physics (ECMP 2014), 11-13 September 2014 Athens, Greece, Europe
- Medical Physics International
- AFOMP Activity in the Last Six Months
- FAMPO Second General Assembly in Accra, Ghana – a Short Report
- DONATION OF USED EQUIPMENT – PRC REPORT FOR Jan-Jun 2014
- Another Successful Event for the Radiation Protection Society
- MEFOMP Activities during the last 6 months
- Workshop on the Physics of Advanced Radiotherapy Techniques: The Role of Medical Images
- What is the CERN-HERMES network?

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- Message from the Editor
- President's Message
- EMITEL Encyclopaedia of Medical Physics
- IOMP Science Committee Report
- Basic Safety Standards(BSS): International & European
- Report from the Education and Training Committee
- Medical Physics College 2014, ICTP, Trieste
- From the Awards and Honours Committee
- Donation of Used Equipment Report Jul-Dec 2014
- AFRIRPA-04, Rabat/Morocco September 13-17, 2014
- Women: Marvel Creatures or MARvel Scientists?
- Calendar of Events
- PRC Report
- Report on the AAPM/IOMP Library Program
- HERMES proposes Centre of Excellence
- UNSCEAR announces the latest global surveys
- EUTEMPE-RX announces training modules
- International Workshop on Modern Clinical RT
- Brieng from the President of MEFOMP

- ENETRAP III: RPE in the Medical Sector
- AAPM/IOMP training course on RT, Tallinn, Estonia
- Just Published: IPEM Report 109 - RP in NM

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- Message from the Editor
- President's Address
- IOMP Regional Coordination Board
- International Cooperation & Advancement in Medical Physics
- Educational Accreditation in Medical Physics
- Medical Physicists Work at the Sharp Edge
- So We Decided to Call It Medical Physics World...
- IOMP Science Committee Report
- Awards & Honours: Promoting the Recognition of Medical Physicists Throughout the World
- Report from the Publication Committee
- IUPAP Young Scientist Award 2014
- Report on the World Congress of Medical Physics and Biomedical Engineering 2015 – Health, Technology, Humanity
- Regional Meeting on Medical Physics in Europe:Current Status and Future Perspectives
- On an innovative patient-specific QA process for pre-treatment radiotherapy plan verification in brain tumour patients
- The 57th Annual Meeting & Exhibition of AAPM
- Donation of Equipment – PRC Report Jan-Jun 2015
- Workshop on Heavy Metals Sponsored by Peruvian INS-PUCP-IUPESM held in Lima on 7-8 May 2015
- AAPM ISEP 2015 Diagnostic Medical Physics Course in Kaunas (Lithuania)
- Women and Lung Cancer: Looking at the Problem More Closely
- Middle East Federation of Organizations of Medical Physics
- Calendar of Events

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- Message from the Editor
- President's Address
- From the desk of the IOMP Secretary General
- Message from Vice President, IOMP
- Dr. Madan Rehani, awarded the 2015 Alliance for Radiation Safety in Pediatric Imaging Butter-y Award
- IOMP President awarded Doctor Honoris Causa
- International Day of Medical Physics 2015 was a great success!
- Report from Awards and Honours Committee
- The IDMP Award
- IOMP Science Committee Report
- Report from the Publication Committee
- The International Union for Physical and Engineering Sciences in Medicine
- MPW Presents: The International Radiation Protection Association (IRPA)



- IOMP 2015-2018
- Interview with Virginia Tsapaki
- Donation of Equipment – PRC Report Jan-Jun 2015
- IAEA Activities in Medical Physics
- IMPCB accredits certification boards in Korea and Hong Kong
- AAPM/IOMP/ISEP Imaging Physics Workshop
- Middle East Federation of Organizations of Medical Physics
- Calendar of Events

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- Message from the Editor
- President's Address
- IOMP Regional Coordination Board
- From the Desk of the IOMP Secretary General
- WHO Publication on Communicating Radiation Risk
- Education in Medical Physics: The Key to Success
- IOMP participation in IRPA 2016
- Collaboration is key to address Global Cancer
- Report from the Publication Committee
- MPW Presents: Modern clinical neurosciences
- MPW Topic: EFOMP
- Physica Medica: European Journal of Medical Physics
- European Board for Accreditation in Medical Physics
- Medical Physics in Germany
- Medical Physics in Italy
- Spanish Society of Medical Physics
- Medical physics and medical engineering in the UK
- Report from Awards and Honours Committee
- Treasurer's Report and Accounts
- Reviewing Accountant's Report
- International Symposium on Advances in Diagnostic Imaging
- XIV Mexican symposium on Medical Physics
- Middle East Federation of Organizations of Medical Physics

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- President's Address
- From the Desk of the IOMP Secretary General
- IOMP WOMEN Subcommittee
- What Have We Done For You Lately?
- Report of Science Committee
- Report from Awards and Honours Committee
- IOMP Regional Coordination Board (RCB), December 2016
- IOMP IUPAP Workshop "Building Professional Capacity in Developing Countries"
- Report from the Publication Committee
- Book Review
- The 22nd International Conference on Medical Physics (ICMP2016) and the associated first IOMP School
- The UK's Science for Patient Benefit campaign is going global
- The 58th Annual Meeting of American Association of Physicists in Medicine (AAPM) – 2016, Washington, DC
- Commemorating 40 Years of Association of Medical Physicists of India (AMPI)

- Annual Conference Of Bangladesh Society of Radiation Oncologists & Bangladesh Medical Physics Society
- ACBSROBMPS-2016
- Report of IDMP 2016 Celebration at SMS Medical College & Hospital, Jaipur
- Middle East Federation of Organizations of Medical Physics
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- The Special Issue of MPW
- Strengthen the Confidence of Women
- The IOMP Women Group and the IDMP 2017
- Marie Sklodowska-Curie: a woman ahead of her time
- ICTP: Supporting Women in Science
- 6 Women Scientists Who Were Snubbed Due to Sexism
- The Medical Physics Future is Very Promising
- ...If I Had Known About Medical Physicists, I Would Have Decided to Become One!
- Medical Physics is a Very Promising Career
- Be Trustworthy, Be Reliable, Be Competent!
- Contribute to Your Community, Nation, Region
- Life is a Sequence of Opportunities
- Never Stop Learning and Asking Questions
- ...If It Is YOUR Decision, It Will Be Right
- IOMP Women

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- President's Address
- From the Desk of the IOMP Secretary General
- Vice President's Report
- It is time to talk about specificities of women health
- Medical Physics Enables Healthier Lives for Women
- Report of Science Committee
- Implementation of International Basic Safety Standards (BSS) for the use of radiological medical imaging devices
- Report from the Publication Committee
- Middle East Federation of Organizations of Medical Physics
- Report on International Conference on Physics in Medicine and
- Clinical Neuroelectrophysiology in Bangladesh-PMCEN-2017

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- President's Address
- 5th IRPA-IOMP-WHO Regional Workshop on Radiation Safety Culture in Healthcare
- Report of the IAEA ICRPM: Achieving Change in Practice
- Report from Awards and Honours Committee
- IDMP 2017: The whole world learnt something about Medical Physics
- Defining the Medical Imaging Requirements for a Rural Health Center
- AOCMP-AMPICON 2017
- IDMP @ AOCMP-AMPICON 2017

- Unification of Quality Control for all CBCT modalities
- AMTZ: India's first medical technology zone
- Celebration of 5th IDMP-2017: Activities of BMPS
- 2nd International Conference on Advances in Radiation Oncology
- ACOMP Workshop on Monte Carlo Simulation
- Middle East Federation of Organizations of Medical Physics
- Mourning for the passing of Prof. Kiyonari Inamura
- Obituary - Professor Kiyonari Inamura

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- President's Report
- IOMP Company Report
- Vice President's Report
- Secretary General's Report
- Immediate Past-President's Report
- Treasurer's Report
- Report of Science Committee
- Report of Professional Relations Committee
- Report of Education and Training Committee
- Report of Publications Committee
- Report of Honours & Awards Committee
- Report of Medical Physics World Board
- Report of IOMP Journal Medical Physics International
- Report from the IOMP Rules Committee
- Women Subcommittee report
- History of Medical Physics Project
- IOMP - IComMP / IUPAP – AC4 Medical Physics
- EFOMP Report
- AFOMP Report
- FAMPO Report
- MEFOMP Report
- ALFIM Report
- COMP Report
- Regional Coordination Board (RCB) Report
- INTERNATIONAL WOMEN'S DAY CELEBRATION

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- President's Report
- IUPAP Affiliated Commission 4: Medical Physics
- From the desk of the IOMP Secretary General

- IUPESM – the Union of IOMP and IFMBE
- IOMP Treasurer Report
- Report of Science Committee
- Report of Education and Training Committee
- Report of Honours & Awards Committee
- Report of the IOMP-W Subcommittee
- Participation of IOMP in the ICSR
- IPEM's 'Little Linac' project
- MEFOMP Report
- Full Congress Report 18th AOCMP and 16th SEACOMP
- Report on the 15th SEACOMP
- 2018 IUPESM World Congress
- 2018 IUPESM World Congress
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- Editorial
- President's Report
- IOMP Strategic Plan
- International Medical Physics Week
- Non-ionizing medical radiation protection and safety
- From the desk of the IOMP Secretary General
- The IOMP Project "History of Medical Physics"
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- Message from the IDMP Coordinator
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- Report of Awards & Honours Committee
- MEFOMP Report
- Medical Physicists and Biomedical Engineers...
- Better Healthcare Technology
- Radiation Protection for Bumps, Babies and Beyond
- Celebration of International Day of Women & Girls in Science

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*MPW vol. 35 No 2, November 2019*

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Medical Physics World Special Issue dedicated to MPW 35<sup>th</sup> Anniversary and the International Day of Medical Physics.  
**IT'S A MEDICAL PHYSICS WORLD!**



