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Volume 37 Number 2 December, 2021



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Medical Physics World

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IOMP NMOs

National Member Organisations

Algeria	Morocco
Argentina	Myanmar
Australia & New Zealand	Nepal
Austria	Netherlands
Bangladesh	New Zealand
Belgium	Nigeria
Brazil	Norway
Bulgaria	Panama
Cameroon	Peoples Rep. of China
Canada	Peru
Chile	Philippines
Colombia	Poland
Croatia	Portugal
Cuba	Qatar
Cyprus	Rep. of China - Taiwan
Czech Republic	Rep. of Macedonia
Denmark	Rep. of Moldova
Ecuador	Romania
Egypt	Russia
Estonia	Saudi Arabia
Finland	Singapore
France	Slovenia
Georgia	South Africa
Germany	Spain
Ghana	Sri Lanka
Greece	Sudan
Hong Kong	Sweden
Hungary	Switzerland
India	Tanzania
Indonesia	Thailand
Iran	Trinidad & Tobago
Iraq	Turkey
Ireland	Uganda
Israel	Ukraine
Italy	United Arab Emirates
Japan	United Kingdom
Jordan	United States
Korea	Venezuela
Kuwait	Vietnam
Lebanon	Zambia
Lithuania	Zimbabwe
Malaysia	Bangladesh - AFFILIATE
Mexico	
Mongolia	

Editorial

Magdalena Stoeva, PhD
Editor IOMP Medical Physics World



Dear Colleagues and Friends,

Welcome to the December 2021 issue of the IOMP Medical Physics World!

We mark the end of another exciting and challenging year. Despite the unprecedented global situation medical physics

community has been active in many aspects of our professional, academic and organizational live.

It is my pleasure to present to you this excellent issue of IOMP Medical Physics World - most recent updates and information by IOMP ExCom, Committees, National and Regional Organizations.

Special focus is given to IDMP 2021 reports submitted by IOMP partners, Regional Organizations and National Member Organizations. A global set of activities in support of our profession and directed towards the community and the recognition of medical physicists' contributions to healthcare.

And finally let me use the opportunity to wish you all

Happy Holidays and warm wishes for the New Year!

Looking forward to a brighter 2022!



Picture credits: SAAPMB

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President's Report

Madan M. Rehani, PhD
President of IOMP



Dear Colleagues,

We are just finishing another year with COVID-19 pandemic and working remotely has become a new norm. Many private sector companies have found it economically preferable to have no office space in big cities and save money on rent. Additionally, since work can be managed remotely, employees have moved out to suburb or to far off cities where properties and overall living are cheaper. Similar analysis for medical physics profession are not available and it will take time to know the real impact. The impact on conferences has been evident as conferences do provide financial resource for many organizations being the primary dominant source too in many cases. Luckily for IOMP, since the expenses went down, there has hardly been impact, even though we had to provide concession to some member

countries on membership dues. On activity front, IOMP School webinars have been great hit. Thanks to the interest maintained by members. Further, in each webinar, we have several hundred registrations of those who are not in our mailing list and our mailing list has been growing rapidly. We have been making recorded webinars available on IOMP website and number of views are encouraging. Participants in the webinar have often asked us about participation certificate and CME credit. A new Task Group has been set up that will provide CME credits for IOMP webinars. It is an independent TG with no conflict of interest. We hope to be able to provide certificates in 2022. We also started a new series of webinar presentations by PhD students. You may wish to see the list on IOMP website.

The IOMP newsletter has become an important source of communication. We have maintained at least one article on radiation oncology physics in every issue of the newsletter and that attracts high reads, many a times the highest in the issue. That provides us feedback on what readers value as we regularly monitor number of visits, that being the main index which can be monitored.

The celebration of International Day of Medical Physics (IDMP) is becoming a routine in many countries. Despite pandemic

situation prevailing, we received good number of reports of celebrations. We organized a webinar with journalists as they are most active in communicating with the public. The theme of the 2021 IDMP being communicating medical physicist's role to public, that was found to be fitting. We also had a university professor expert in communicating science who spoke in the webinar. The recording is available on IOMP website.

We invited members to provide us information on actions taken by medical physicists that fall beyond the call of duty. One entry received was accepted and presented in IOMP newsletter that can provide motivation to all.

Just to remind that the dates for the next International Medical Physics Week (IMPW) are 9-13 May 2022. Please plan to organize your actions for that week.

Most members of the ExCom have been busy in various activities and their respective reports are indicative of their achievements. They are not being repeated here to avoid duplication. Also, IOMP Newsletter contains periodic information on actions and it is better to have a look at them that avoid the need to list them here.

Wish you all safe and healthy time for balance of the year and very best wishes for 2022 to be a year where we can get back to pre-pandemic situation.

The impact of COVID-19 on cancer screening and cancer diagnosis

Prof. John Damilakis,
IOMP Vice President and President-elect



Cancer is a leading cause of death in all countries of the world. Cancer screening is an effective preventive measure that can save lives. While cancer screening is critical for cancer control, many nations have suspended cancer screening services for asymptomatic patients because of the Covid-19 pandemic. As a result, a large number of individuals has been left without access to recommended examinations. Unsurprisingly, the number of new cancer diagnoses dropped dramatically. Patients, healthcare providers and healthcare systems may all suffer from the disruption in cancer screening. Information from the Netherlands Cancer Registry

shows that the number of breast, gynecological, and gastrointestinal cancer diagnoses decreased considerably after screening disruption (Dinmohamed et al, 2020). The delay in breast and colorectal cancer screening and treatment caused by the Covid-19 pandemic is estimated to result in an 1% increase in cancer-specific mortality in the United States over a ten-year period (Sharpless et al, 2020). Furthermore, many patients are afraid about being exposed to the corona virus in healthcare institutions avoiding or postponing important diagnostic and therapeutic procedures such as X-ray radiographs, fluoroscopic examinations, fluoroscopically guided procedures and tomographic examinations with obvious negative effects in diagnosis and staging. A survey was conducted in the US to assess delay or avoidance of urgent and routine medical care due to Covid-19. 40.9% delayed medical care due to Covid-19 with 12% avoiding urgent care (Czeisler et al, 2020). Delayed cancer diagnosis can result in increased mortality. Resuming screening and encouraging people to undergo justified

medical imaging procedures is urgent because the consequences can be very serious.

References

Dinmohamed AG, Visser O, Verhoeven RHA, et al. (2020) Fewer cancer diagnoses during the COVID-19 epidemic in the Netherlands. *Lancet Oncol.* 21, 750–751.

Czeisler M, Marynak K, Clarke K et al. (2020) Delay or avoidance of medical care because of covid-19-related concerns – United States, June 2020. *Morbidity and Mortality Weekly Report* 69, 1250-1257

Sharpless NE (2020) COVID-19 and cancer. *Science* 368, 1290.

Secretary General Report

Eva Bezak
IOMP Secretary General



Dear Colleagues,

it has been a busy year, trying to perform our work at the best possible standard, despite the complexities and barriers that the pandemic has presented us with.

IOMP elections. Call for nominations for the IOMP Election of Officers & Chairs: 2022-2025 has been distributed. The officers will be elected by means of a ballot (via email) to be held in January-February 2022. The new officers will assume office at the end of the General Assembly to be held during the World Congress on Medical Physics and Biomedical Engineering to be held in Singapore, on June 12 - 17, 2022. The closing date for nominations was 5th December 2021 at noon GMT. The nominations were to be sent to the chair of the nominating committee, John Damilakis or to the IOMP secretary general.

IUPESM. An email has been sent to the Council members detailing proposed amendments to IUPESM Statutes and Bylaws and the incorporation of IUPESM Company. Endorsement of the changes is performed by an email ballot, with the votes (using the appropriate form) to be sent to the IUPESM Secretary General by 10th December.

IUPESM WC2022: The IUPESM WC2022 is well underway, adopting a hybrid format in view of continuing uncertainty with travel. Early bird registration is now open, and the abstracts are due by 10th December 2021. Please see <https://wc2022.org/> for further information. A variety of special symposia is underway, offering an excellent educational and advanced professional networking to our members.

ICMP2023: As advised previously, the next International Conference on Medical Physics (ICMP) will be held in Mumbai India in late 2023. Memorandum of understanding has been achieved and signed off by IOMP, AMPI, AFOMP and SEAFOMP.

Conference endorsements and support: Requests for conference support have reduced in 2021, most likely due to the effects of the COVID-19 pandemic. Nevertheless, the following organizations and countries have received IOMP endorsement of their meetings in 2021: **MEFOMP** (Virtual MEFOMP Medical Physics Conference), **India** (Conference

on Radiation in Health Care, Jaipur), **Japan** (123rd JSMP meeting) and **Hong Kong** (Hong Kong Polytechnic University, Department of Health Technology and Informatics – virtual medical physics forum).

IOMP webinars have successfully continued throughout 2021 with strong ongoing participation from medical physicists around the world. To increase our inclusiveness and to give an opportunity to present to our early career medical physicists, we will now be inviting medical physics PhD students from around the world to present an IOMP webinar once every 3 months. If you would like to nominate a PhD student to deliver an IOMP webinar, please contact me.

Accreditation of IOMP organized educational events. IOMP has been asked regularly to provide Continuing Professional Development (CPD) points to those who attend the IOMP webinars. In order to be able to do so, a task group, independent of IOMP ExCom, has been formed to assess the IOMP educational events and advise on CPD points. The group is chaired by Natalka Suchowerska (Australia) and its members are: Maria Ester Brandan (Mexico), Kiki Theodorou (Greece), Jin Cai (Hong Kong) and Jacqueline Gallet (USA).

IUPESM Women in Medical Physics and Biomedical Engineering TG. The next paper

from the worldwide survey conducted in 2020 on the effects of the pandemic on MP and BME professions has been submitted for publication and is focused on the biggest challenges during lockdowns. For example, participants reported challenges within the immediate family to include responsibilities for

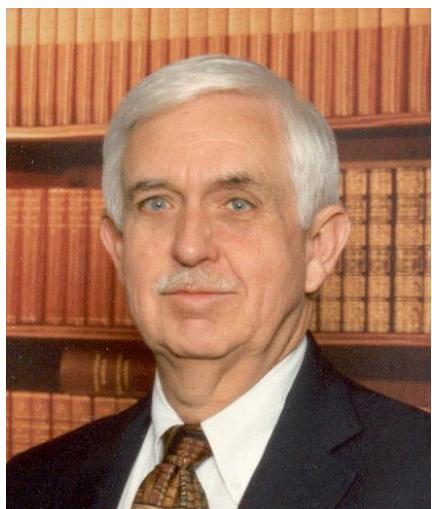
school, childcare, and children's wellbeing, and the loss of social interactions with family and friends. Participants also reported increased domestic duties, blurred lines between home and work, and long workdays. Finding adequate workspace was a problem, and adaptations were necessary,

especially when adults shared the same setting for working and children. Connectivity issues and concentration difficulties also emerged. We will present more detailed results of the survey at WC2022.



MPI Journal Focussed Issues on the IOMP Regional Organisations (Federations)

Slavik Tabakov, IOMP Past-President, MPI Co-Editor-in-Chief
Perry Sprawls, MPI Co-Editor-in-Chief



One of the main objectives of the IOMP Journal Medical Physics International www.mpijournal.org is to support the global medical physics professional development. From the Dec 2018 issue MPI started a series of focussed issues discussing the status, the past developments and future plans of

our National Member Organisations (NMOs). These were based on a common template (highlighting points to be discussed), aiming at presenting a harmonised image of medical physics development in various countries.

The MPI Dec 2018 issue presented 28 pages of papers reporting the status in various Regional Organisations (RO) and Low-and-Middle Income (LMI) countries. These papers were related to the Workshop on LMI professional development held at WC2018, Prague.

The MPI June 2019 issue presented 17 pages of papers from Latin America - the ALFIM Region and some of its members – Brazil, Chile, Jamaica and a large paper covering all NMOs from Central America. These papers were also associated with the ICMP 2019, held in Chile. Additionally, papers related to some professional research topics in ALFIM were published. This MPI issue also presented a paper from C Orton and M Giger about the history and achievements of the AAPM in North America.

The MPI Dec 2019 issue was dedicated to the 10th anniversary of FAMPO. The NMOs from Africa, which presented 33 pages of papers for this issue, are: South Africa, Zimbabwe, Nigeria, Ghana, Morocco, Algeria, Tunisia, Egypt (and later Zambia in 2020 and Rwanda in 2021). Also, full papers

from FAMPO and from the new African Journal on Medical Physics were published. Additionally, papers related to some professional research topics in FAMPO were presented. Dr Taofeeq Ige and Dr Francis Hasford from FAMPO were acting as MPI Contributing Co-Editors for this issue.

The MPI June 2020 issue was dedicated to the 20th anniversary of SEAFOMP. The NMOs from South-East Asia, which presented 37 pages of papers, are: Vietnam, Indonesia, Thailand, Philippines, Myanmar, Lao PDR. Also, full paper about SEAFOMP history was published. Additionally, papers related to some professional research topics in SEAFOMP were presented. Prof. Kwan Ng and Prof. Anchali Krisanachinda from SEAFOMP were acting as MPI Contributing Co-Editors for this issue.

The MPI Dec 2020 issue was dedicated to the 20th anniversary of AFOMP. The NMOs from Asia-Oceania Region, which presented 53 pages of papers for this issue, are: Australia and New Zealand, Bangladesh, Japan, India, Korea, Malaysia, Mongolia, Nepal, Philippines, Singapore, Thailand (and later Pakistan in 2021). Also, full paper about AFOMP history was published. Additionally, papers related to some professional research topics in AFOMP were presented. Prof. Arun Chougule,

Prof. Eva Bezak and Prof. Anupama Azhari from AFOMP were acting as MPI Contributing Co-Editors for this issue.

The MPI June 2021 issue was from the MEFOMP Region. The NMOs from the Middle East Region, which presented 50 pages of papers for this issue are: Iraq, Jordan, Kuwait, Lebanon, Oman, Palestine, Qatar, Saudi Arabia, Syria, Yemen. Also, full paper about MEFOMP history was published. Additionally, paper related to the virtual MEFOMP Conference is presented in MPI Dec 2021. Dr Huda al-Naemi and Dr Mohammad Hassan Kharita from MEFOMP

were acting as MPI Contributing Co-Editors for this issue.

The MPI Dec 2021 issue is just coming. It is related to the EFOMP Region and celebrates its 40th anniversary. The NMOs from the European Region, which presented 40 pages of papers for this issue, are: Denmark, France, Hungary, Lithuania, Malta, Norway, Poland, Spain, Serbia, Sweden, Ukraine. Also, full paper about EFOMP history is prepared for publication. Prof. David Lurie, Dr Efi Koutsouveli and Prof. Paddi Gilligan from EFOMP are acting as MPI Contributing Co-Editors for this issue.

As a summary, 265 pages of papers related to the professional development, history and future plans from 60 countries and 6 regional organisations were published in the MPI Journal for the past 4 years. These present a very good picture to support the global development of medical physics and the potential for its growth towards the expected 60,000 medical physicists globally by 2035.

We would like to thank all authors, all Contributing Co-Editors and the Technical Editor Prof. Magdalena Stoeva, who supported this important activity.



MEDICAL PHYSICS International
A journal of the International Organization for Medical Physics

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Welcome to MEDICAL PHYSICS International

The IOMP Journal Medical Physics International (MPI) has now completed its seventh year since the first issue of the Journal in April 2013. In this period MPI continues to attract around 100,000 visits per year.

MPI is a free Journal aiming to support the global development of our profession. By now it has published over 1,000 pages with papers and over 1,500 pages approved abstracts from International Conferences. A number of papers related to education/training, professional issues and industry innovations have attracted thousands of readers, each.

The Editors and Editorial Board of the IOMP Journal Medical Physics International are grateful to all colleagues who have submitted papers for publication in MPI and contributed to this success of the Journal.

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Current Issue

MEDICAL PHYSICS International

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POTENSIATE EDUCATION IN MEDICAL PHYSICS - RESPONSE TO COVID-19: A STUDENT SURVEY
THE IOMP JOURNAL MEDICAL PHYSICS INTERNATIONAL: AN ASSESSMENT OF THE IOMP JOURNAL
A MEDICAL PHYSICS PEER SUPPORT FORUM FOR MEDICAL PHYSICIANS IN KENYA
MEDICAL PHYSICS IN THE IOMP REGION: CURRENT STATUS 2021
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RADIOPHYSICS: PHYSICS TRAITS FORWARD CASES
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The Journal of the International Organization for Medical Physics
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IDMP 2021 Report

Ibrahim Duhaini
IDMP Coordinator



The International Day of Medical Physics we celebrate on November 7th turned into a key event for our profession. It is a day to celebrate our achievements, share experience and socialize. For a 9th year in a row Marie Curie's birthday gathered medical physicists from all over the world under the IDMP 2021 theme "Communicating the Role of Medical Physicists to the Public" [1].

How often do people ask you what is your profession? Do people know medical physicists' role in the diagnosis and treatment? Do people really realize the responsibilities of medical physicists to protect people from the harmful use of radiation? These and many other questions were on focus when

celebrating IDMP 2021. We managed to answer many of them while at the same time realizing there are further areas where medical physicists play an important role with high contribution to healthcare and the society – academics, research, new technologies.

Despite the restrictions of the global pandemic number of successful events were organized at national and regional level worldwide with the leading initiative set by the IOMP. It all started with video messages from IOMP governance, partners, regional and national leaders all focused on the recognition and the valuable contribution of our profession [1]. The central event organized by IOMP gathered the expertise of medical physicists, scientific journalists, and writers [2]. The International Atomic Energy Agency (IAEA) joined the global celebrations reinforcing the concept of recognition this year through a new e-flyer [3]. A global coverage was achieved thanks to the active involvement of our regional organizations – AFOMP, ALFIM, EFOMP, FAMPO, MEFOMP, SEAFOMP. Argentina, Bangladesh, Belgium, Bulgaria,

China, Croatia, Egypt, France, Germany, Ghana, Greece, Hong Kong, Iraq, India, Indonesia, Italy, Lithuania, Malaysia, Mexico, Nepal, Romania, South Africa, Spain, Taiwan, USA are among the countries actively celebrating IDMP 2021 [4].

A global professional community with key contribution to healthcare and society thinking of medical physics not only a career to work in a hospital or to teach at a university, but is a way of seeing and experiencing life [5]. This is what medical physicists are and the society should be aware of our role.

References:

1. <https://www.iomp.org/idmp-2021/>
2. <https://www.iomp.org/iomp-school-webinars/>
3. <https://www.iomp.org/iaea-celebrates-idmp-2021/>
4. <https://www.iomp.org/idmp-2021-activities/>
5. <https://link.springer.com/article/10.1007/s12553-021-00612-z>

Science Committee Report

Geoffrey S. Ibbott
Chair Science Committee



The IOMP Science Committee is responsible for disseminating current information to medical physicists; assisting in the planning and conduct of regional meetings on medical physics; contributing to and reviewing scientific documents prepared by organizations such as the ICRP, the WHO, and the IAEA; and participating in various forums for the generation of scientific information in medical physics.

The current Committee membership is shown below:

Geoffrey Ibbott, Chair, USA
Abdalla Al-Haj, Saudi Arabia/MEFOMP
Sha Chang, USA
Lawrence Dauer, USA
XiaoWu Deng, China

Benedick Fraass, USA
Reinhard Loose, Germany/EFOMP
Mahadevappa Mahesh, USA
Malcolm McEwen, Canada
Hossein Mozdarani, Iran/MEFOMP
Wilbroad E. Muhogora, Tanzania/FAMPO
Hugo Palmans, United Kingdom
Mark Rivard, USA
Maria Elisa Rostelato, Brazil/ALFIM
Ferid Shannoun, Austria
Vellaiyan Subramani, India
Yoshiharu Yonekura, Japan

As most people know, the World Congress was postponed a year and now will be held in Singapore in June, 2022. It is expected that members of the SC will contribute to the program committee for the WC 2022.

Several members of the SC have contributed to preparation of a report by the United Nations Scientific Committee on the Effects of Atomic Radiation (UNSCEAR). The final report has undergone extensive review by the Expert Group on Medical Exposures and by national contacts, and aspects of the work have been presented in several venues, including the

ICARO-3 conference. The final report is expected to be published soon.

The SC regularly reviews applications to the IOMP for sponsorship or support of educational and professional development conferences. Before recommending support or endorsement of a conference, the committee considers the quality of the program and proposed speakers, and the potential benefit to be derived by the intended audience.

The SC reviewed and commented on several draft documents during the past six months. One was from the IAEA and was entitled "Postgraduate medical physics academic programmes". This report, with the SC contributions, makes a valuable guide for institutions who operate, or are considering developing, medical physics training programs.

The chair is immensely grateful to the members of the Science Committee for their responsiveness and thoughtful reviews of the applications and documents received by the committee.

Report of Awards & Honours Committee

Simone K. Renha Chair Awards & Honours Committee



Members:

Simone K. Renha (Chair), Cyril Schandorf, Pedro Ortiz, Tomas Kron, Patricia Mora, Leif Schröder, Keiichi Akahane, Huda M.Al-Naemi, Melissa C. Martin, Klaus Bacher, Roger Price, Moulay Ali Nassiri, Madan Rehani, John Damilakis

During the reporting period, our evaluation process was reviewed with the aim to increase clarity aiding efficiency and with high sense of transparency and accountability. Forms are now available for all awards and their use has been successfully trialled. It was very encouraging to see a significantly increased number of nominations from all parts of the world reflecting the diversity and high quality of the medical physics profession. The curricula vitae of the nominees were really impressive, making our work even more difficult. The winners of IUPESM Award, Marie Skłodowska-Curie Award and Harold Johns Medal will be presented at the IUPESM World Congress on Medical Physics and

Biomedical Engineering 2022 in Singapore, 12 – 17 June 2022. Each of these important awards is dedicated for outstanding contribution for education and training of medical physicists, advancement of the medical physics profession, and significant impact in the science and scientific practice of medical physics.

In this report, the committee has the pleasure to announce the winners of 2021 for IUPAP, IDMP, the new fellows of IOMP and the Honorary members.

1. IUPAP Award 2021



Dr. Chai Hong Yeong is the winner of IUPAP Award for her research work on 153-Samarium for Nuclear Medicine imaging and therapy (Citation: Production and first use of $^{153}\text{SmCl}_3$ -ion exchange resin capsule formulation for assessing gastrointestinal motility, CH Yeong et al, Applied Radiation and Isotopes 70, 450-455, 2012).

Dr Chai was born in Malaysia and obtained a Master of Medical Physics, University of Malaya, 2007 and a PhD at the University of Malaya. She is a very active member of the Medical Physics society, acting as Chair of Professional Relations Committee of Asia-Oceania Federation of Organizations for Medical Physics (AFOMP), Vice President, South-East Asia Federation of Organizations for Medical Physics (SEAFOMP), Vice President, Malaysian Association of Medical Physics (MAMP), member of Web Sub-Committee (Newsletter) of International Organization for Medical Physics (IOMP) and Member of IOMP-Women Sub-Committee.

2. IDMP AWARD

This year we had 12 nominees from the different regional and national organisations. Applying all the requirements for this award and the score system, we had the six following awardees.

2.1 Stephen Balter - AAPM



He is a Clinical Professor of Radiology and Medicine at Columbia University and earned an MS in Radiological Physics and a PhD in Experimental Physics. He is certified in Radiological Physics by the American Board of Radiology and licensed by New York State in Diagnostic Imaging, Radiation Therapy Physics, and Medical Health Physics. He is a past President of the Radiological and Medical Physics Society of New York, past Vice President of the Radiological Society of North America, a member of the Standards and Safety Committees of the Society for Interventional Radiology, and a member of editorial and review boards of several scientific journals. He received the Marvin M.D. Williams award from the American Association of Physicists in Medicine (AAPM) in 2017. Prof. Balter is a fellow of AAPM, the American College of Medical Physics, the American College of Radiology, the Society for Cardiovascular Angiography and Interventions, and the Society of Interventional Radiology. He currently serves on International Electrotechnical

Commission working groups responsible for safety and performance standards for projection and interventional radiology. He has been a member of NCRP Council for more than a decade. He chaired scientific committees that produced NCRP Report No. 168, Radiation Dose Management for Fluoroscopically-Guided Interventional Medical Procedures and NCRP Statement No. 11, Outline of Administrative Policies for Quality Assurance and Peer Review of Tissue Reactions Associated with Fluoroscopically-Guided Interventions (2014). He has over 100 refereed publications in the areas of radiological imaging, radiological health, and related topics.

2.2 Dr. Shigekazu Fukuda - JSMP



Dr. Shigekazu Fukuda was born in Japan. He graduated and obtained his master degree in Physics Graduate School of Science, Osaka University. In 1995, he moved to RIKEN as a doctoral research fellow. His research expanded to the nuclear reaction from nuclear

structure and developed the high mass-resolution TOFERDA system. In 1997, he developed the prototype of proton therapy system, and performed proton treatment for almost 50 patients with medical staff in the Wakasa-wan Energy Research Center (WERC). He also introduced an IMRT system to the Fukui prefecture hospital and designed the hospital-based proton therapy facility. In the Research Center for Charged Particle Therapy, National Institute of Radiological Sciences, he developed the dosimetry system of carbon beams and has managed the carbon therapy facility, HIMAC (Heavy Ion Medical Accelerator in Chiba). He contributed to IAEA-NA21 project, "the development of a specific training package for medical radiation physicists in support to nuclear or radiological emergency situations", which originated from the Fukushima Daiichi Nuclear Power Plant Accident. He has contributed to establishment of the standardization of particle therapy system, (IEC60601-2-64) and in "Medical electrical equipment – Medical light ion beam equipment – Performance characteristics" (IEC62667). Since 2020, he is the president of JSMP (Japan Society of Medical Physics), where he was also chair of International Committee and member of executive board. He was the chair of Education & Training Committee of AFOMP. He has been a member of Professional Relations Committee of IOMP, 2012-present, and in connection to IMPCB (International Medical

Physics Certification Board he has contributed to establish the international certification system of medical physicists. He was also a member of Professional Development Committee (PDC).

2.3 Michel Salvator Israel - BSMPE



Michel Israel is a professor at National Centre of Public Health and Analyses (NCPHA), Sofia, Bulgaria, the Medical University – Pleven, Bulgaria and the Hebrew University of Jerusalem, Israel.

With numerous of organizational, scientific, and educational activities, Dr. Israel is a leading figure in the field of medical physics and well recognized international expert. He is a member of a number of internationally recognized bodies/organizations - Bulgarian Society of Biomedical Physics and Engineering (BSBPE), American Conference of Governmental Industrial Hygienists (ACGIH), International Advisory Committee (IAC) of WHO, Non-Ionizing Radiation Safety, The Planetary Society, European Public Health Association (EUPHA), Institute of Electronic

and Electrical Engineering (IEEE), Bulgarian Association of Public Health. Michel Israel's primary expertise is in the field of non-ionizing radiation health and safety, covering all its aspects starting from the routine activities and ending up with top level advanced technologies such as 5G communications, MR diagnostics, lasers, and optical radiation. Special portion of his work and expertise are focused on risk communication with the population, especially related to the public concern on risks of telecommunication technologies, mainly 5G. Concerning the professional exposure to electromagnetic fields, risks for medical personnel in diagnostics from MRI sources (static and variable magnetic field, RF radiation), lasers and other optical radiation sources is studied, also the risk for workers in energetics, plastic industry (sealers and heaters). A major portion of Dr. Israel's activities is dedicated to education and training – as a full professor he is responsible for the training of over 300 students (medicine, medical physics, etc.) each year. His field of education is medical physics, physical factors in working and living environment, ionizing and non-ionizing radiation safety, hygiene, occupational and environmental health etc. In addition, he trains students from the Sofia University in medical physics and metrology of NIR. He also trains specialists in short courses in measurement, in occupational medicine (physical factors), risk assessment, and risk communication as a professor in

NCPHA. Michel Israel is a member of the International Advisory Committee of the World Health Organization in the field of non-ionizing radiation; the board of the European Forum, organized by the Federal Institute of Occupational Health; the expert group of the European Commission that developed Directive 2013/35/EU. He works for the NATO Project to improve standards for safety use of radiofrequency fields in residential areas. Dr Israel is a well-known expert in his country, not only among the professional societies, but also the general public – with over 10 TV and radio interviews annually. His international communication skills have been well recognized at various levels – recently Dr Israel led a meeting of the European Parliament on 5G technology and its influence on human health and was a moderator of STOA meeting of the European Parliament “Health and environmental impacts of 5G” in 2021. Dr Israel's is the current president of the Bulgarian Society of Biomedical Physics and Engineering which is another recognition for this contribution to medical physics on a national, regional and international level.

2.4 Jose Perez Calatayud - EFOMP



Jose Perez-Calatayud graduated in Physics in 1981 at Valencia University. He obtained his PhD at the Zaragoza University. He started in Medical Physics in 1985 dedicated to Radiotherapy Medical Physics and subsequently was Associate Professor of the Valencia University (1998-2006). Since 1989, Dr. Pérez-Calatayud holds the position of Head of the Department of Medical Physics at the University Hospital La Fe in Valencia, Spain and is a member of the Medical Physics Department at Clinica Benidorm. He is currently collaborating with the SEFM, GEC-ESTRO, ABS, and AAPM. He has been responsible for organizing and directing a radiotherapy medical physics unit that is a benchmark for the procedures applied in all areas for the care of patients, and that has produced significant advances, as well as in the development of new devices, especially in brachytherapy. He has also led several world-class international working groups for the development of clinical practice recommendations followed today all over the

world. This level of excellence achieved in clinical aspects has been possible because Dr. Pérez Calatayud has developed a fruitful research career, aimed at improving the clinical application of radiotherapy, in which he has been a prolific author with the publication of numerous articles and books with great impact, and the direction and participation in many research projects. As a teacher, Dr. Pérez-Calatayud has reached a large audience in clinical and university ambitions, and he has greatly influenced the careers of many young medical physicists. He has directed one of the most prestigious services in Spain for the training of residents in Medical Physics, which welcomes its own residents and visitors from all over the country. He has participated as a teacher in courses and training programs that have contributed to the great development experienced by Medical Physics in Spain, and has directed several doctoral theses initiating many young medical physicists in research. He is Member of the Scientific Committee of the Sociedad Española de Física Médica and Chair of the Spanish Task Group in Brachytherapy. In AAPM he served as Chair of the Working Group of the American Association of Medical Physicists (AAPM) dedicated to brachytherapy dosimetry in high energy and as Member of the Brachytherapy Subcommitte of AAPM, as well as Member of the Brachytherapy Clinical Applications Working Group (BCA-WG) of AAPM and Co-chair of TG-253 of AAPM in Skin Brachy Applicators. In ESTRO, he

is Member of the committee BRAPHYQS of Control of Quality and Research in Brachytherapy, associated to ESTRO, Member GEC-ESTRO Advisory Board, Member del TG of ABS in Skin Brachytherapy Member of the Advisory Committee on Radiation Oncology Practice of ESTRO. He is also a Member of ACROP (Advisory Committee on Radiation Oncology Practice) of ESTRO. In addition, he is also Chair of the task group WP-18 from BRAPHYQS, Chair of the task group WP-21 from BRAPHYQS and member of the ESMPE Scientific Board. In 2014, he was recognized by the IOMP as one of the foremost fifty medical physicists who have made an outstanding contribution to the advancement of medical physics over the last fifty years.

2.5 Dr Francis Hasford GSMP



Dr. Francis Hasford obtained his B.Sc. degree in Physics in 2003 from the Kwame Nkrumah University of Science and Technology, Ghana. He obtained his Master's degree in Medical Physics from the University of

Ghana in 2006 and obtained his Doctorate degree from the same university in 2015. He has been working with Ghana Atomic Energy Commission since May 2008 and presently serves as Senior Research Scientist for the Radiological and Medical Sciences Research Institute of the Commission. Dr. Hasford also serves as Head of Department and Lecturer for the Medical Physics Department of the School of Nuclear and Allied Sciences, University of Ghana – Atomic. The department serves as the International Atomic Energy Agency (IAEA) Regional Designated Centre for Medical Physics training in Africa. Additionally, he has Medical Physics responsibilities for the Nuclear Medicine Department of the Korle-Bu Teaching Hospital, Accra. Dr. Hasford serves as the Secretary General for the Federation of African Medical Physics Organizations (FAMPO) and the Secretary for the Ghana Society for Medical Physics (GSMP). Dr. Hasford has served as Ghana's Council Delegate for the International Organization for Medical Physics (IOMP) and Project Coordinator for the IAEA Technical Cooperation Project on Radiotherapy Medical Physics for five years, respectively. He is an External Examiner to the Sefako Makgatho Health Sciences University of South Africa. Over the years, Dr. Hasford has conducted several research studies and has over thirty (30) peer-reviewed articles to his credit. His research interest covers medical imaging in support of radiation therapy. He has participated in several

international and local conferences and workshops and made oral and poster presentations at these events. Dr. Hasford has gained thorough knowledge in Medical Physics by his engagement in research work, clinical activities and academia. Dr. Hasford has won a number of high profile national and international awards. He won the International Union of Pure and Applied Physics (IUPAP) Young Scientist Award for 2016 in the category of Medical Physics. The award is established and funded by IUPAP and awarded by IOMP to the best performing young Medical Physics scientist in the world below the age of 40 years. He received the 2016 Recognition Award by the Ghana Atomic Energy Commission for his outstanding performance as scientist, lecturer and staff of the Commission. In 2015, Dr. Hasford won the Best Poster Presentation Award at the Maiden University of Ghana Doctoral Conference. He also won the 2013 Best Worker Award as Senior Member of the School of Nuclear and Allied Sciences, University of Ghana / Ghana Atomic Energy Commission.

2.6 Meshari Al-Nuaimi – KAMP-MEFOMP



Dr. Meshari Al-Nuaimi has made outstanding contributions in the field of medical physics and radiation protection in medicine by his actions in establishing the first dedicated medical physics unit in Kuwait and through his active involvements with the International Atomic Energy Agency (IAEA) through national and regional technical cooperation projects to promote for radiation safety culture. Dr. Al-Nuaimi is the president of Kuwait Association of Medical Physics (KAMP), vice president of Middle East Federation of Medical Physics (MEFOMP) and leads radiation physics department in Kuwait Cancer Control Centre. He studied nuclear medicine science at Kuwait University and received a Masters degree and PhD in medical physics and biomedical engineering form University College London (UCL). After his PhD, he introduced medical physicists as key members into the nuclear medicine team and succeeded establishing the first dedicated medical physics services to nuclear medicine in Kuwait. His main research interests include radiation dosimetry, optimization of quality assurance programs,

radiation protection, assessment of novel detection technologies and improving image analysis. Dr. Al-Nuaimi is an autonomous worker committed to providing high quality medical physics and radiation safety services by utilizing organizational, teaching and communication skills developed through involvement as an expert in nuclear medicine, radiation protection, quality management, and medical physics locally and regionally for the IAEA. Dr. Al-Nuaimi has extensive experience in education and in providing training as a clinical instructor for allied health BSc students, medical physics tutorship for the Kuwait nuclear medicine residency program and is a key coordinator of many conferences, workshops and training courses in the region. Dr. Al-Nuaimi is a member of the scientific teaching staff of the Kuwait Board of Nuclear medicine. He published many scientific papers and reviews in the area of medical physics and radiation protections and his publications were chosen as a feature article in the international journal of physics in medicine and biology. He established the first EARL accredited center in the region for F18 FDG PET and the first American College of Radiation accreditation for SPECT/CT in the region. He contributed to establishing the Kuwait Cancer Control Center as a regional resource center for diagnostic and therapeutic nuclear medicine to ARASIA.

3. Honorary members

3.1 Dr. Noora Al Hamadi - MEFOMP



Dr. Noora Al Hammadi is the Chairperson of the Department of Radiation Oncology and a Senior Consultant Radiation Oncologist at the National Centre for Cancer Care & Research, Doha, Qatar. She completed her education and training in Radiation Oncology at the University Clinics of Heidelberg in Germany. After obtaining her "Facharzt" (German Board accreditation) in Radiation Oncology, she returned to HMC as a Staff Radiation Oncologist. She was appointed Chairperson of the Radiation Oncology Department in 2009. Further, she recently has been appointed as Deputy Medical Director for Administrative Support Services for the National Center for Cancer Care in Research (NCCR). Her subspecialty interest is in breast radiation oncology with a secondary interest in palliative radiotherapy. She has taken increased institutional leadership roles, including strategic

development, planning and roll-out of programs designed to improve cancer services within the remit of Hamad Medical Corporation. She is the Co-chair of Clinical Affairs of the steering committee engaged in the commissioning of the new comprehensive cancer center in Qatar. Moreover, Dr. Al Hammadi is a significant member of the Overseas Committee which is responsible for clinical approvals of requests for treatment abroad. Dr. Al Hammadi is also an active member of the National Cancer Committee (NCC) in the State of Qatar and engaged in the Global Task Force on Radiotherapy for Cancer Control (GTRCC). Dr. Al Hammadi is also involved in the teaching program for the medical students of Weill Cornell Medicine-Qatar (WCM-Q) through a course elective "Introduction to Radiation Oncology" and is actively engaged in several innovative research projects in Radiation Oncology. She has been the principal investigator of multiple funded grants. She has authored and co-authored 10 peer reviewed journal articles and more than 30 published abstracts. Dr. Al Hammadi has been invited as a speaker, panelist, and keynote speaker in a number of national and international conferences and events. She is also a reviewer in many national and international journal papers. Dr. Al Hammadi is a firm supporter of the local and regional Medical Physics community. Locally, she strongly advocates both the radiotherapy and diagnostics through the

implementation of advanced techniques and its Quality Assurance program. Regionally, she hosted in Doha, Qatar, the IAEA Regional Training Course on the Calibration of External Beam following TRS-398 within the GCC/Middle East/Asia and chaired the IAEA Regional Training Course in Brachytherapy. In 2020, Dr. Al Hammadi was one of the key members of System Wide Incident Command Center (SWICC) HMC Corporate Committee that leads the healthcare sector's response to the Covid-19 virus. At the onset of the pandemic, it was essential for all NCCCR services including surgery, chemotherapy and radiotherapy to continue during the crisis. As such, with the guidance of the Medical Director, Dr. Al Hammadi along with other facility leads, implemented a response plan to ensure zero cancellation and no delays for any of our cancer patients. Further, a system-wide Incident Command Center NCCCR Sub-Committee has been created where all general measures were initiated to minimize risk of infection and protect both the patients and staff. It is noteworthy to highlight that in spite of the challenges of Covid-19, Dr. Al Hammadi with the support of Medical Director, introduced and implemented the latest and more advanced technologies in NCCCR as follows: use of subcutaneous drug administration for certain cancer sites in addition to the conventional intravenous medicines; development and introduction of new techniques

such as trigeminal neuralgia technique in radiotherapy; and acquisition of latest technology such as adaptive radiotherapy as advanced solution in treating cancer patients, which will be installed and commissioned in mid-2021. She also established the Covid-19 Task Force and works closely in monitoring the crisis, identifying active issues and planning strategies as the epidemic evolves.

3.2 Donald L. Miller – AAPM



Donald L. Miller, M.D., is an interventional radiologist. He is currently the Chief Medical Officer for Radiological Health at the US FDA's Center for Devices and Radiological Health (2012-present). He was previously Professor of Radiology and Radiological Sciences at the Uniformed Services University of the Health Sciences in Bethesda, MD, and an adjunct investigator in the Radiation Epidemiology Branch of the National Cancer Institute. Dr. Miller earned a B.A. in Molecular Biophysics & Biochemistry from Yale University in 1972 and an M.D. from the New York University School of Medicine in 1976. He holds Board certification in both

Diagnostic Radiology and Interventional Radiology. Prior to joining FDA, he engaged in the clinical practice of interventional radiology for nearly three decades. He is a Fellow of the Society of Interventional Radiology and of the American College of Radiology, and is an Honorary Member of the American Association of Physicists in Medicine. He has served as a consultant to the International Atomic Energy Agency and the World Health Organization on issues related to radiation protection in medicine. He has actively participated in developing improvements in radiation management and radiation safety in medicine at international venues such as IAEA, ICRP, WHO, and IEC through research, professional guidance, co-authorship of multiple IAEA, ICRP, WHO and NCRP publications. He is a member of multiple AAPM task groups and has made contributions over more than a decade to the IEC standards for safety and essential performance of radiography and fluoroscopy systems, the IEC standard for safety and essential performance of interventional fluoroscopy equipment, and the new IEC standard (currently in the drafting stage) on acceptance and constancy testing for radiography and fluoroscopy systems. Dr. Miller was elected to the U.S. National Council on Radiation Protection and Measurements (NCRP) in 2006. He serves currently as Co-Chair of Program Area Committee 4 (radiation protection in medicine), Chair of the

Nominating Committee, and as a member or consultant to several Scientific Committees. He was Vice-Chair for NCRP Report No. 168 (Radiation Dose Management for X-Ray Guided Interventional Medical Procedures) and a consultant for NCRP Report No. 172 (Reference Levels and Achievable Doses in Medical and Dental Imaging: Recommendations for the United States). He became a member of ICRP Committee 3 in 2010, and since 2013 has served as Vice-Chair of the Committee. He was an author of ICRP Publication 117 (Radiological Protection in Fluoroscopically Guided Procedures Performed Outside the Imaging Department) and Co-Chair for ICRP Publication 120 (Radiological Protection in Cardiology). He currently serves on three working parties of Committee 3. Dr. Miller has authored more than 180 publications in peer-reviewed journals and more than 30 book chapters and reports. His research interests center on radiation protection in medicine, and include occupational radiation protection for interventional fluoroscopy, patient radiation doses and radiation protection in interventional procedures, and the development of U.S. national diagnostic reference levels for medical exposures. He has authored or co-authored more than seventy publications in radiation management and safety in the past 20 years. These have appeared in both clinical and medical physics journals. He is US FDA's official liaison to the Heads of the European

Radiological Protection Competent Authorities (HERCA) and to the US Conference of Radiation Control Program Directors (CRCPD). He represents the U.S. Department of Health and Human Services on the US Interagency Steering Committee on Radiation Standards. Dr. Miller was elected an honorary member of AAPM in 2013, an honour that is reserved for "individuals that have rendered outstanding service in the field of physics in medicine and biology" (AAPM Bylaws).



Xiaowu Deng, AFOMP



Steve Balter, AAPM

4. FIOMP 2021
This honour aims to recognise significant activities for the international development of medical physics. A fellowship is awarded to persons who have made outstanding contributions to IOMP and its regional organisations over a significant period of time. The committee received seven nominations and after evaluation all candidates were elected as new Fellows of IOMP. The Fellows of IOMP that received this important recognition are presented in the pictures shown below.



Taofeeq Ige, FAMPO



Golam Abu Zakaria, DGMP



Arun Chougule, AFOMP



Habib Zaidi, EFOMP



Freddy Haryanto, SEAFOMP



Kharita Hassan, MEFOMP

medical physicist for each award. For this committee, it is gratifying to see the significant numbers of outstanding medical physicists making a difference in this uncertain world. I would like to encourage everyone to keep sending nominations for these awards, expressing your recognition of the excellence and dedication of medical physicists to patient care.

As Chair of AHC, I would like to thank each member of the committee for their effort and dedication to our activities. The committee has worked well together and the number and diversity of the committee members served the purpose well despite the lack of meeting in person due to the COVID pandemic. The use of Dropbox as a repository proved to be essential for sharing of data. Other committee business was conducted using email

I would like to thank you all for the nominations of distinguished

INTERNATIONAL DAY OF MEDICAL PHYSICS
NOVEMBER 7, 2021

COMMUNICATING THE ROLE OF MEDICAL PHYSICISTS TO THE PUBLIC



MEDICAL PHYSICISTS ...

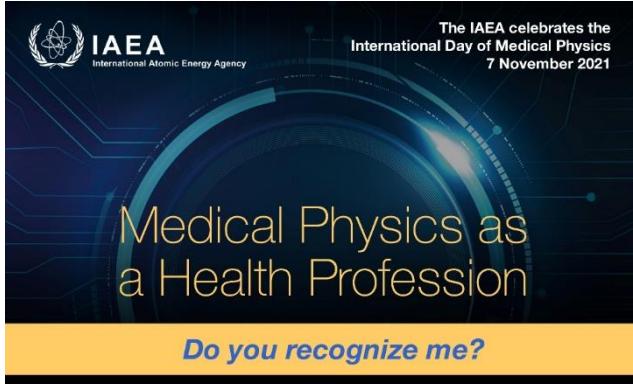
Take the lead in optimizing the use of radiation to treat cancer, Estimate radiation doses from radiological imaging procedures, Teach doctors, radiological technologists, and nurses about the radiations and treatments used in imaging and treatment, Are responsible for radiation safety of patients and staff, Understand newer imaging and therapy technologies and train others to use them.

IOMP Partners, Regional Organizations, National Member Organizations

IAEA Celebrates IDMP 2021

IAEA Human Health Campus webpage for IDMP 2021:

[Human Health Campus – International Day of Medical Physics 2021 \(iaea.org\)](https://www.iaea.org/campus/international-day-of-medical-physics-2021)



On 7 November 2021, the [IAEA](#) will join all medical physicists around the world and the [International Organization for Medical Physics \(IOMP\)](#) in celebrating the 9th International Day of Medical Physics (IDMP).

7 November as IDMP

The 7 November was chosen as an international day to celebrate medical physics because on this same day in 1867, Marie Skłodowska-Curie, known for her pioneering research on radioactivity, was born in Poland. Since 2013, date of the first IDMP edition, every year, a specific topic is selected to highlight and celebrate different aspects of medical physics.

The topic chosen by IOMP this year is "[Communicating the Role of Medical Physicists to the Public](#)" which is connected to the recognition, as well as the visibility of the profession. Consequently, the IAEA will again reinforce the concept of recognition this year and has made available a new e-flyer for download on this page.

Recognition of CQMPs

The e-flyer conveys the question: "Do you recognize me?", to highlight the lack of formal inclusion of medical physicists as part of the health workforce in most parts of the world, as well as the lack of awareness of the public and radiation medicine patients on the crucial role of clinically qualified medical physicists (CQMPs) in radiation diagnosis and treatment.

CQMPs are highly specialized professionals who have received postgraduate level education in medical physics and undergone structured and supervised clinical training. Medical physicists working in hospitals are members of the

multidisciplinary team involved in diagnosis and treatment of patients with ionizing and non-ionizing radiation and contribute to ensuring a high standard of quality of service in healthcare. Wider understanding and awareness of this profession would underpin the global effort in promoting its recognition also at a legislative level.

Documents and Recent Guidelines

International guidelines clearly state that medical physicists are part of the health workforce. Medical physics has been included among the healthcare professions by the International Labour Organization (ILO), in the publication [International Standard Classification of Occupations \(ISCO\)](#). The [IAEA International BSS](#) (2014), [HHS 25](#) (2013) and [SSG 46](#) (2018) clearly refer to the medical physicist as health professional, stressing the importance of acquiring defined competencies to practice at the highest professional standards. Additionally, the IAEA [launched this year](#) specific guidelines for certification of CQMPs, [TCS 71](#) which provide criteria for the establishment of national certification schemes and for the registration of medical physicists as well as recommendations for their continuous professional development. Indeed, the absence of professional recognition can hinder the access to adequate academic education, clinical training, as well as continuous professional development (CPD), and consequently result in unharmonized professional standards.

The Latin American region recently underwent efforts to harmonize the academic education and clinical training path for CQMPs; the guidelines, developed under the *Acuerdo Regional de Cooperación para la Promoción de la Ciencia y la Tecnología Nucleares en América Latina y el Caribe* (ARCAL), in the framework of the IAEA Technical Cooperation project RLA6082 are an adaptation of the IAEA [TCS 56](#), [37](#), [47](#) and [50](#) to the regional needs and have been endorsed by the *Asociación Latinoamericana de Física Médica* (ALFIM). The guidelines have been launched in the occasion of this IDMP and are downloadable from this web page.

Material for the IDMP2021

The IAEA made available on this page the e-flyer, links to the main publications that you can refer to in supporting the recognition of the profession, a video of Ms Debbie van der Merwe, Head of the Dosimetry and Medical Radiation Physics Section and a downloadable infographic that can help Member States in devising a strategy for education and training of medical physicists.

Europe celebrates the International Day of Medical Physics 2021

Efi Koutsouveli, EFOMP Secretary General

Since the initiation of the International Day of Medical Physics (IDMP) in 2013 by IOMP, this day is widely celebrated over the years in Europe. National Member Organisations (NMOs) of EFOMP, Universities, Hospitals, Institutes and Research Centers are organizing events, public lectures, workshops, social media campaigns, games, videos spotlighting the various career paths. To support and communicate further this important day for our medical physics community, IDMP dedicated subpages are being created every year inside the EFOMP new website which was launched on the 4th of September 2017. The subpages contain the IDMP yearly theme, IOMP – IDMP message and related links as well as the activities organized in the European countries [1]. In addition to this action, the Winter edition of the quarterly EFOMP newsletter (European Medical Physics News) is also dedicated every year to the IDMP and publishes articles containing European celebrations [2]. This year, EFOMP's governing committee, planned the Annual Council and Officers meeting to take place in Kaunas, Lithuania in the week prior to the 7th of November to coincide with Marie Curie's birthdate. A hybrid EFOMP school edition on "Individual dosimetry in medical applications" was also organized in conjunction with the 15th International Conference "Medical Physics in the Baltic States 2021". During these four days, a variety of IDMP events took place such as Medical Physics Quiz games, related lectures, interviews and a visit to the atomic bunker "KGB Spy Museum" in Kaunas (Figures 1,2,3). All events gathered together more than 100 participants from 25 countries.



Fig. 1: Participants of the Conference wearing Medical Physics T-shirts prepared for IDMP2021 (courtesy of Jurgita Laurikaitienė).



Fig. 2 Prof. Diane Adliene opened the Conference with a special mention to the IDMP.



Fig. 3 Dosimetric equipment at the atomic bunker "KGB Spy Museum" in Kaunas.

In Brussels, Belgium after one year and a half of online meetings, a decision was taken by the Belgian Hospital Physics Association (BHPA) to organize a real-life seminar and networking event on the occasion of the International Day of Medical Physics. The event consisted of a seminar with lectures by Federica Zanca (BE) and Keith Faulkner (UK) followed by food and drinks (Fig. 4,5).



Fig. 4 BHPA networking event (courtesy of Jan Vandecasteele)



Fig. 5 Federica Zanca, EFOMP school board member and chair of the EFOMP Artificial Intelligence working group

Traditionally, every year close to the 7th of November, the Croatian Association of Medical Physics organizes a mini in person symposium themed on “Medical Physics in Croatia”. This year, the event took place at the Department of Physics, Faculty of Science, University of Zagreb, with all necessary epidemiological measures against COVID-19 in place (Fig.6). Medical Physicists

travelled to Zagreb from the cities of Split, Osijek and Rijeka to present their scientific and professional activities in medical physics. Due to COVID-19 situation, the symposium duration was smaller, and the number of presentations was reduced to six, but still, our forty colleagues managed to keep the tradition alive, achieving the goal of promotion and communication of medical physics profession in Croatia, and keeping the medical physicists connected.



Fig. 6. The venue in Zagreb, Croatia (courtesy of Hrvoje Hrsak)

The French Society of Medical Physics created films to introduce the work of Medical Physicists in different disciplines and put together 9 illustrated messages to promote this special day using the Society’s digital channels (Fig. 7).

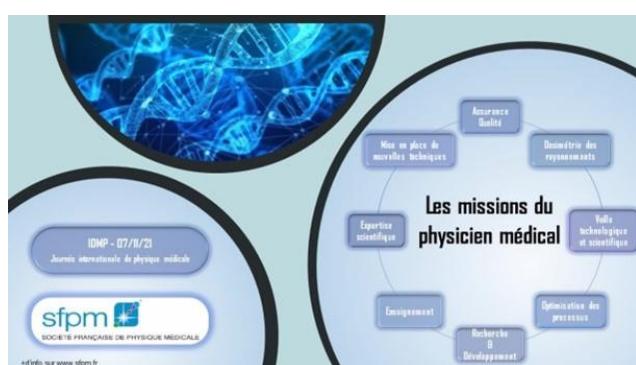


Fig. 7 Social media campaign by the working group in general public communication of the French Society of Medical Physics (courtesy of Arnaud Dieudonne)

The German Cancer Research Center (DKFZ) in Heidelberg organised a virtual International Day of Medical Physics. Following this year’s topic

“Communicating the Role of Medical Physicists to the Public”, our colleagues explained the daily tasks and challenges in the field of “Medical Physics in Radiation Therapy” to all national and international participants who attended online (Fig. 8). The event was supplemented by short videos where members of DKFZ gave an insight into their daily tasks and challenges on a commonly understandable level.



Fig. 8 The German Cancer Research Center (DKFZ) online event (courtesy of Oliver Jäkel)

In Athens, Greece a public awareness event about the essential work of Medical Physicists was organized by the Medical Physics Unit of the Attikon University Hospital. A dedicated website, questionnaires and videos were created by junior members of the Hellenic Association of Medical Physicists (HAMP). HAMP’s social media channels have been used to promote all these activities (Fig. 9).



Fig. 9 Celebrations at Attikon University Hospital in Athens (courtesy of Pola Platoni)

The Italian Society of Medical Physicists organised a scientific day to celebrate IDMP, on the 5th of November at the Centro Congressi Paganini in Parma, Italian Capital of Culture 2021. The event was attended by almost 100 medical physicists in presence and 130 were connected online (Fig. 10).



Fig. 10 Celebrations in Parma (courtesy of Caterina Ghetti)

The Romanian College of Medical Physicists (CFMR) gathered online over two days to celebrate the IDMP through the 19th Romanian Conference on Medical Physics. For this occasion, CFMR has also prepared a video to publicize our profession and to explain the role of the medical physicist to the public. As well as a number of scientific sessions, CFMR President Loredana Marcu organized a round table that allowed discussions on various professional matters [2]. The Spanish Society of Medical Physicists celebrated IDMP2021 in Valencia on the 6th of November (Fig. 11). A social media campaign about Marie Curie and the profession of Medical Physics was also organised prior to that date, as well as a photo contest with a subject related to Medical Physics using the hashtag # 7NSEFMChallenge. The winning photo was the one whose publication has had the most likes on all social networks.



Fig. 11 Jose Perez Catalayud in Valencia, member of the EFOMP school board was the recipient of the IDMP2021 in Europe award (courtesy of Ana Tornero)

In Serbia, the President of the Medical Physics society, Borislava Petrovic and Dusan Mrgja, Professor at the Department of Physics, University of Novi Sad were guests of a TV show where they informed the audience on the educational Medical Physics MSc and Phd programmes, the work and professional recognition of the Medical Physicist (Fig. 12).



Fig. 12 Communicating the role of Medical Physicist in Serbia (courtesy of Borislava Petrovic)

IPEM in the United Kingdom has done several tweets sharing videos featuring the roles of a medical physicist and career profiles from various UK hospitals.

EFOMP and the European Medical Physics Societies have greatly use their communication channels to promote the day and inform people around the world about the crucial contribution of medical physicists in the healthcare sector, mainly in diagnosis, treatment, quality and safety. We are very grateful to all societies and especially to their young members in turning this occasion into a very special event.

References

- [1] www.efomp.org, International day of Medical Physics
- [2] www.efomp.org EMPnews

MEFOMP celebration of the IDMP 2021

The Middle East Federation for the Organization of Medical Physics (MEFOMP) in collaboration with from Qatar Medical Physics Society (QaMPS) is celebration the International Day of Medical Physics (IDMP) 2021. The celebration will take place in Doha, Qatar with the participation of several experts, honorary gusts from Hamad Medical Corporation, Ministry of Public Health, Ministry of Environment and Climate Change, with medical physicists from Qatar Medical Physics Society (QaMPS).

During this celebration, the winner of the IOMP IDMP-2021 award for the region will be announced by Dr Huda AL Naemi – MEFOMP president – and also the winner of the recently established MEFOMP Young Scientist Award 2021 which organized for the first time in the region.

The total attendance is 65 including physicists and gusts and all the necessary COVID-19 precautions will be observed.

The venue, the date and time are as follows:

Date: Sunday, 07 November 2021

Time: 9:00am – 12:30pm

Venue: Room No. 9, Bayt Al Diyafah, Hamad Bin Khalifa Medical City Doha, Qatar

Please see schedule of activities:

Time	Activity
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9:00 – 10:00	QaMPS Meeting
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10:00 – 12:30	IDMP Celebration
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12:30 onwards	Lunch
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There will be several other celebrations in various countries in the Middle East region.



Middle East Federation of the Organization of Medical Physics

International Day of Medical Physics
(November 7, 2021)
Communicating the Role of
Medical Physicists to the Public



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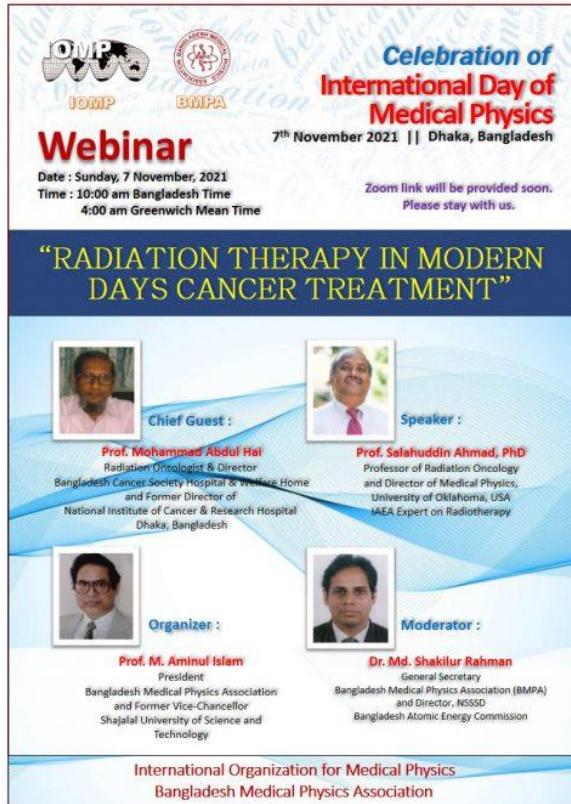
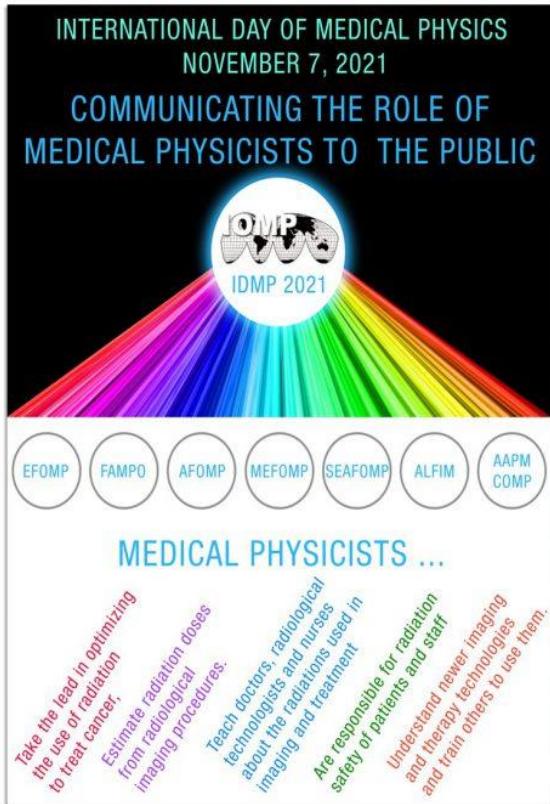
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There will be several other celebrations in various countries in the Middle East region.

Bangladesh Celebrates IDMP 2021 (BMPA)

Bangladesh Medical Physics Association is inviting you to participate in the IDMP-2021 Webinar program via Zoom on 7 November 2021 at 10.00 am Bangladesh Time (4.00 am GMT).

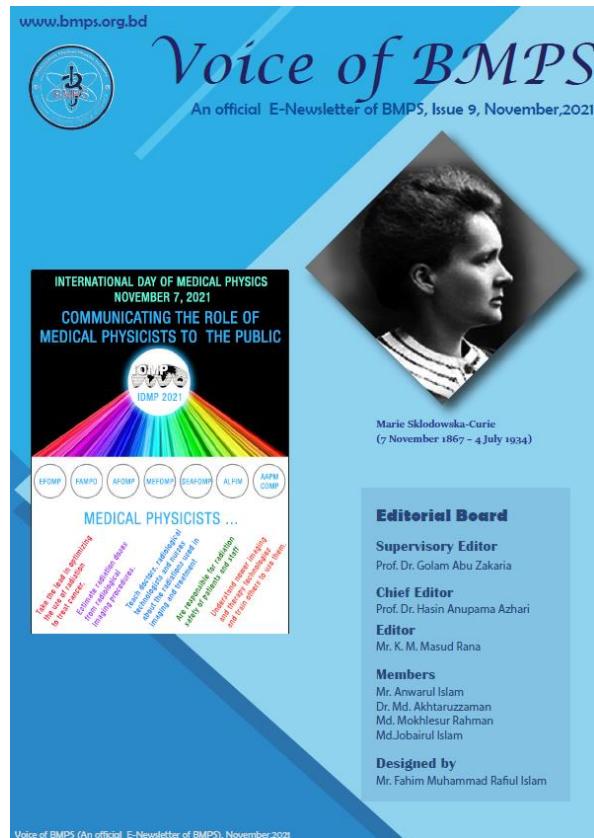


Bangladesh Celebrates IDMP 2021 (BMPS)

BMPS celebrates International Day of Medical Physics (IDMP) each year. In this year, the theme of the IDMP 2021 has been chosen as **“Communicating the Role of Medical Physicists to the Public”** which reflects that there are a considerable number of medical physicists working across the globe and they are united through the national and regional organizations under the auspices of International Organization for Medical Physics (IOMP).

As part of the celebration of IDMP, BMPS has published its 9th issue of the electronic newsletter “Voice of BMPS”.

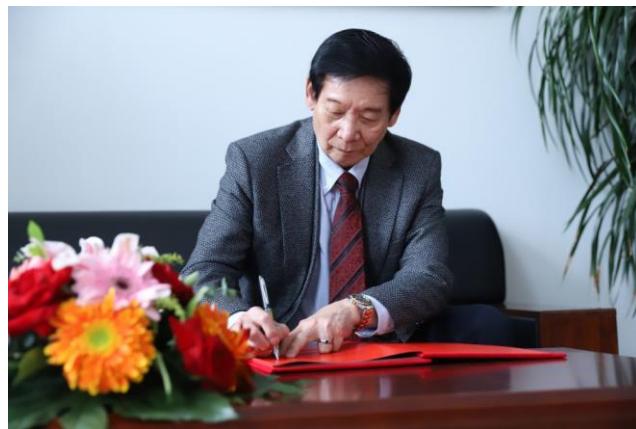
[Voice of BMPS E-Newsletter Issue-9 November 2021](#)



China celebrates IDMP 2021

Chinese medical physicists organized in Changchun on November 7th of 2012, an academic activity of celebrating the 9th International Day of Medical Physics (IDMP 2021), On November 7th 2021, an online academic activity of “Celebrating the 9th International Day of Medical Physics: The future prospects of medical physics”, was held in Changchun Cancer Hospital in Changchun Jilin Province. Prof. Yimin Hu, former Chair of AFOMP, and CSMP, and the Visiting expert of the Chinese Training Center of Precision Radiotherapy Engineering Physics in Changchun Cancer Hospital, held the online activity, shared the experiences off line with the medical physicists from Changchun Jilin Province Northeast China. Prof. Hu introduced briefly the development of international medical physics and setting the day of IDMP in 2013, and the latest progress in the field of precision radiotherapy in China. The current application of artificial intelligence will lead us to a new era of individualize-based precision radiotherapy that will bring a better results of the current cancer treatment. The symposium not only concentrated on the discussions of the newly developed technologies, but also answered the questions raised from online participants. The celebrating IDMP 2021 activity brought Chinese medical physicists, at the first time, more insights into its history, present and future of medical physics in China and around the world. During IDMP dinner, the representatives of medical physicists held a small gathering to celebrate IDMP 2021. The representatives presented flowers and blessings to Prof. Hu for his pioneering work on medical physics in China, and Prof. Hu gave a gathering talk. The participants lit nine candles on the big cake marked “庆祝第九届物理师节日快乐” and shared the happy time together during the event.

Written by: Huidong Wang, Chief physicist of the NO.1 Affiliated Hospital, Jilin University, Changchun.





Egypt celebrates IDMP 2021

International Day of Medical Physics (IDMP 2021)
– EAMP in Egypt “Communicating the role of medical physicist to the public”

Prof. Nashaat A. Deiab, National Cancer Institute, Cairo – Egypt

Under the auspices of the Governor of Dakahliya, the Dean of the Faculty of Science of Mansoura University, the Secretary General of the Egyptian Scientific Syndicate and the Mansoura Medical Physicists Team (MMPT), in cooperation with the Egyptian Association for Medical Physics (EAMP) and (FAMPO), a scientific conference and workshop were organized to celebrate International Day of Medical Physics (IDMP 2021) in two days 4th and 5th November, 2021 at the headquarters of the Sub- Scientific Syndicate in Mansoura – Dakahliya Governorate and with the participation of university professors and heads of radiology departments and departments of physics and biophysics of 9 governmental faculties of science from in addition to the National Cancer Institute – Cairo University, the Nasser Institute for Research and Treatment – Ministry of Health and Population.



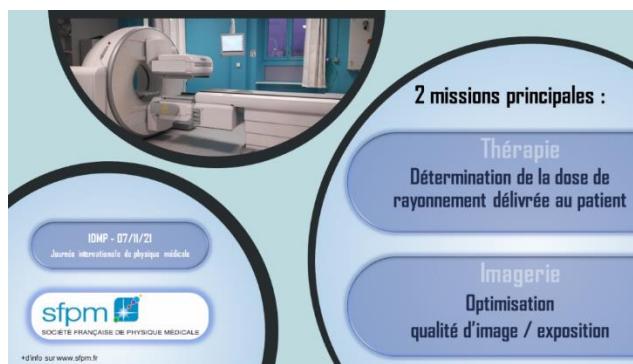
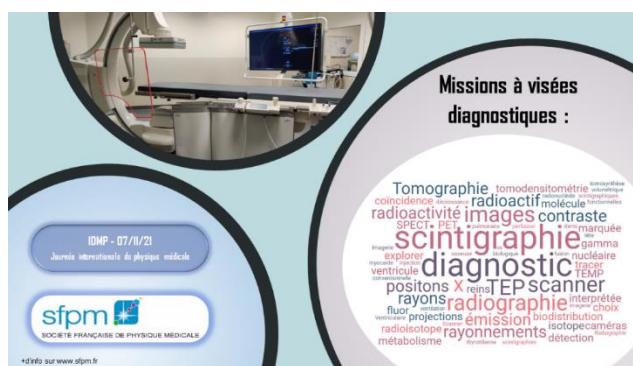
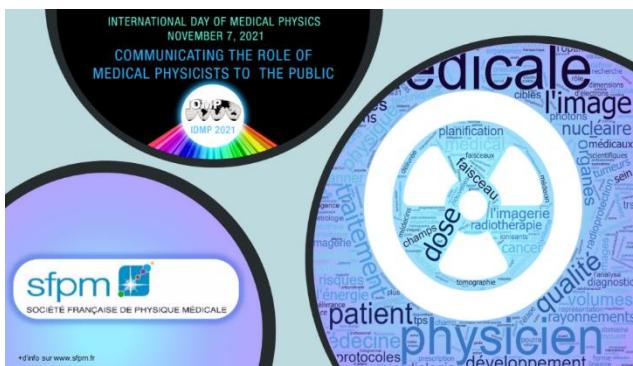


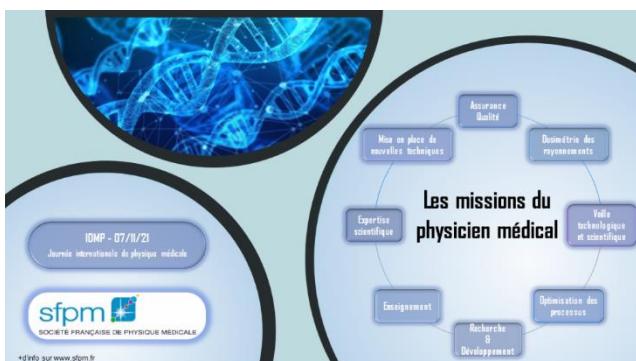
France celebrates IDMP 2021

IDMP 2021 Report: French Society of Medical Physics (SFPM)

One of the task groups of the SFPM is dedicated to spreading knowledge about medical physics to the general public. This task group took part in its first international day of Medical Physics in 2021. Among the amount of suggestions that have been made by the IOMP, two goals have been achieved by the group :

Nine short and impactful illustrated messages about the job of a medical physicist were created:





A video in French of many professionals' testimonials about the highlights and interests of their careers was made:

In addition to the SFPM traditional communication channels (LinkedIn profile and website : www.sfpm.fr), Twitter and Youtube accounts have been created to spread those contents for this special occasion.

The strategy was to draw the audience's attention a few days before November 7th. For this purpose, posts of the illustrated messages were made on social media twice a day starting from the 4th, then the video was published on the 7th.

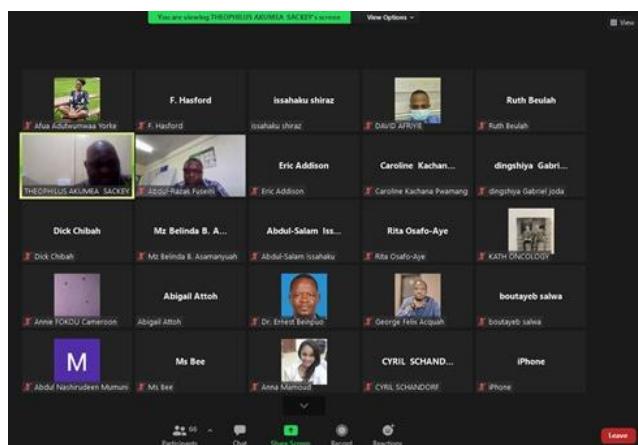
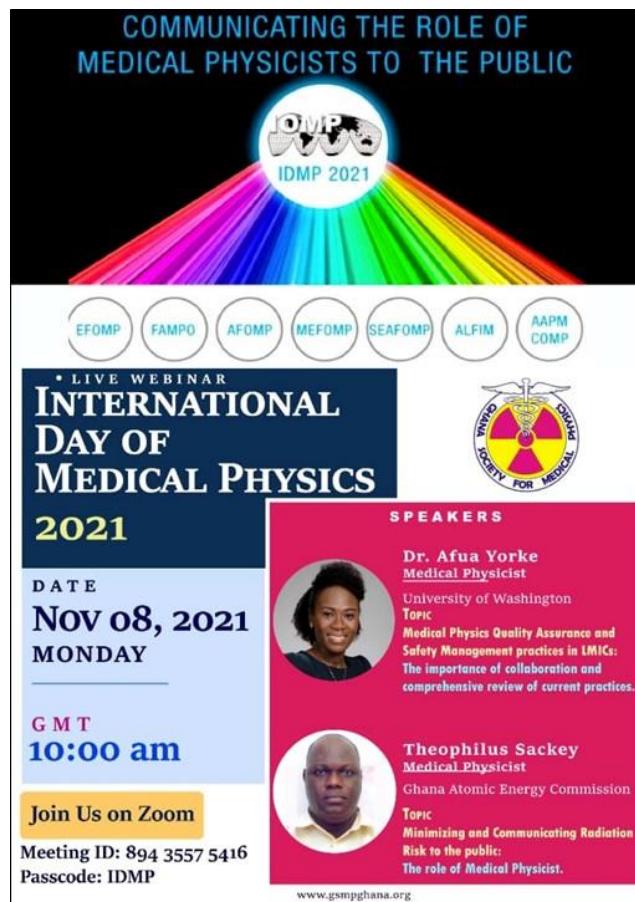
The impact of those posts is difficult to assess but ever since we have noticed thousands of shares and retweets of the messages on our social networks –mostly in the medical physics community – and a thousand views on our Youtube video which has been shared a lot, especially on Facebook. This video is considered by the task group to be the most effective in targeting and informing a more general public, hence having the best impact considering our initial goal. We are getting very positive feedback from both the community and the general public!

Miloudi Hanane
 Moreau Matthieu
 Hadj Henni Ahmed
 Aventin Christophe
 Blot-Lafon Valérie
 Le Bourhis Julien
 Working group in general public communication,
 SFPM

Ghana celebrates IDMP 2021

On 8th November 2021, Ghana Society for Medical Physics (GSMP) held a webinar in commemoration of the International Day of Medical Physics (IDMP). The Society joined medical physicists around the world in celebrating this important day instituted by the International Organization for Medical Physics (IOMP) to mark the 7th November birth date of Marie Skłodowska Curie for her pioneering research on radioactivity. Theme for the celebration was “Communicating the Role of Medical Physicists to the Public”.

GSMP's scientific webinar hosted via Zoom, with over 80 participants including academicians, clinicians, policy makers, researchers, students among others, educated participants of the key roles medical physicists play in healthcare delivery. Speakers for the day were Dr. Afua Yorke (University of Washington) and Mr. Theophilus Sackey (Ghana Atomic Energy Commission), with presentations on the topics “Medical Physics Quality Assurance and Safety Management Practices in LMICs – The Importance of Collaboration and Comprehensive Review of Current Practices” and “Minimizing and Communicating Radiation Risk to the Public – The role of Medical Physicist” respectively.



Germany celebrates IDMP 2021



In Germany the DKFZ Heidelberg is organising an event for the International Day of Medical Physics 2021.

Welcome to our Virtual International Day of Medical Physics 2021 at the DKFZ. This year's topic is "Communicating the Role of Medical Physicists to the Public" and we are very happy to explain our daily tasks and challenges in the field of "Medical Physics in Radiation Therapy" to everyone out there.

Our Live-Online-Event is scheduled for Sun. Nov. 07th 2021 from 1 - 2.30pm (CET) (9 - 10.30am in Santiago de Chile; 7 - 8.30pm ICT, Thailand) with national and international colleagues and it is hosted online via Zoom. Participation is free of charge and everyone who is interested can register online below to get all information about the Live-Online-Event and not to miss any updates here.

This Live-Online-Event is supplemented by short videos. In these videos members of our division give an insight into their daily tasks and challenges on a commonly understandable level. The videos are available below.

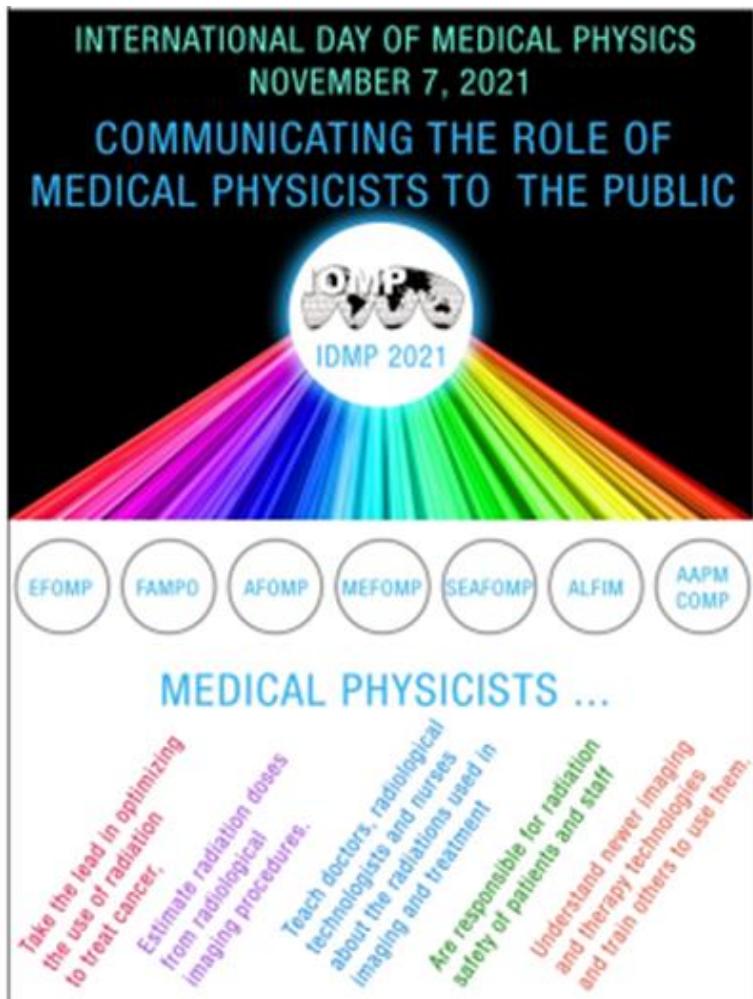
Try out and explore the field of Medical Physics in Radiation Therapy!

Our event is hosted by the DKFZ under the auspices of the Heidelberg Institute for Radiation Oncology (HIRO), together with our partners

<https://www.dkfz.de/en/medphys/IDMP2021/index.html>

Hong Kong celebrates IDMP 2021

Dr Dennis NGAR (Vice President, HKAMP) introduced the IOMP and celebrated the IDMP in the October Allied Health & Pharmacy Meeting in Hong Kong Tuen Mun Hospital to the allied health members in the meeting. The IDMP poster below was presented, with the main roles of medical physicists introduced in Chinese as well. There were 18 Allied Health Seniors, the Senior Pharmacist, and several Hospital Management Officials at the meeting. We received warm responses from the members. Many of them expressed that an open International Day annually for a professional discipline is indeed a very good idea. Dr Michael Lee (President, HKAMP) participated in a TV programme by a local media company (Now Media) in which he talked about the role of Medical Physicists, together with radiation safety. The TV programme is scheduled to be broadcasted around mid Dec 2021.



Medical Physicists worldwide or local in Hong Kong would like to introduce themselves to the public, and to the colleagues in the medical field.

Every year 7/11 is the International Day of Medical Physics IDMP organized by IOMP, International Organization for Medical Physics.

Hong Kong Association of Medical Physics HKAMP is a member of the IOMP and AFOMP, Asia-Oceania Federation of Organizations for Medical Physics.

- 主理放射治療及放射造影技術
- 放射劑量評估及量度
- 放射科學教育
- 質素監控
- 輻射防護
- 引進技術

India celebrates IDMP 2021

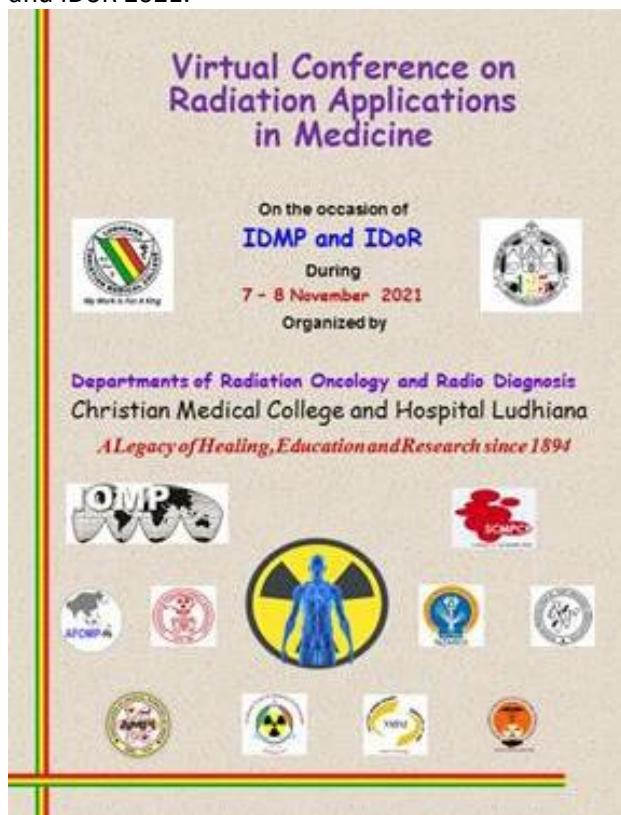
Virtual Conference on Radiation Applications in Medicine
7-8 November 2021
Christian Medical College and Hospital Ludhiana, India

The departments of Radiation Oncology and Radio Diagnosis, Christian Medical College and Hospital Ludhiana, Punjab organised a two-day international virtual scientific programme, Conference on Radiation Applications in Medicine from 7th to 8th November 2021 on the occasion of International Day of Medical Physics (IDMP) and International Day of Radiology (IDoR).



Contribution of Medical Physics in healthcare is multi-dimensional and it has improved the healthcare tremendously. The recent advancements in Medical Physics may it be in Radio diagnosis, Radiotherapy, Nuclear Medicine and various fields specially using ionizing radiation has made monumental sprints. To bring over it and recognize the contribution of Medical Physics to healthcare, International Organization for Medical Physics (IOMP) has started to celebrate 7th November, the birthday of Madam Marie Curie as International Day of Medical Physics (IDMP) since 2013. The main purpose of IDMP celebrations include motivating the organization of activities that result in the promotion of the

subject of medical physics globally, increasing the visibility of the profession and outreach to fellow professionals and general public. Since the 7th day of November 2013, the very first International Day of Medical Physics, where various academic and teaching institutes showcased the contributions of medical physicists to healthcare globally and continues to be celebrated annually thereafter. Discovery of X-rays on 8 November 1895 by German physicist Prof Wilhelm Roentgen has revolutionised the medical diagnosis and treatment. The anniversary of this discovery is celebrated around the world as IDoR in recognition of the remarkable contributions made by radiological imaging and radiological treatment to health care, and the role of radiation professionals in providing quality care to patients. Christian Medical College Ludhiana has been always in the forefront to avail the best diagnostic and treatment facilities to treat patients since 1894. The teaching and training program for radiotherapy technologists in CMC Ludhiana dates to early 1960's and the MD Radiation Oncology program at the institute is completing 30 years. The departments of Radiation Oncology and Radio Diagnosis collectively decided to commemorate the Pearl Jubilee celebrations on the occasion of IDMP and IDoR 2021.

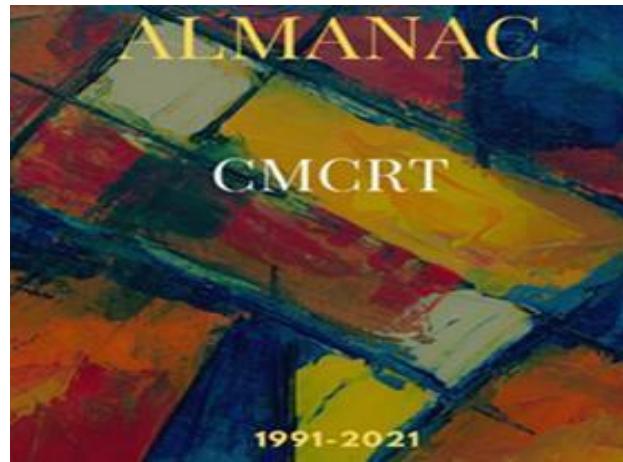


The theme of this year's IDMP celebrations is 'Communicating the Role of Medical Physicists to the Public'. The rapidly evolving applications of physics in medicine and the ongoing pandemic demands new set of skills as well as outlooks to meet the challenges efficiently and successfully. The Departments of Radiation Oncology and Radio Diagnosis, Christian Medical College and Hospital, Ludhiana, India celebrated IDMP with a

two-day international scientific programme Virtual Conference on Radiation Applications in Medicine. The rapidly evolving applications of physics in medicine and the current pandemic demands new set of skills as well as outlooks to meet the challenges efficiently and successfully. This virtual conference offered a forum for sharing invaluable experiences for improving the practice of Medical Physics and an opportunity to listen to a number of great people holding and practicing high ideas in life as well as profession. The scientific programme included talks and teaching sessions by eminent speakers in the field of medical physics. On 7th November 2021, the first day, the conference started with inaugural ceremony. The programme started with a prayer and invocation song. A congenial welcome to the patrons of the conference Dr William Bhatti, Director, CMC & H Ludhiana, Dr Jeyaraj Pandian, Principal CMC Ludhiana, all speakers and participants were proposed by the Organizing Chairperson Dr Jaineet Sachdeva. An introduction to the purpose and objectives of the virtual conference, IDMP and IDoR celebrations were described by the Organizing Secretary Dr Mary

Joan. The patrons addressed the virtual gathering and Dr Jeyaraj Pandian, Principal CMCL released the e-Souvenir and Abstract Book of the conference. Greetings and best wishes from the Director and Principal of CMC Ludhiana, office bearers of various endorsing professional associations, Organising committee members and abstracts of all the invited talks, poster and oral presentations, endorsements and advertisements from knowledge and trade partners comprised the e-Souvenir. Dr Subhash Singla, Organising Chairman delivered the IDoR message.

The Pearl Jubilee directory of CMC aluminus of Radiation Oncologists and Radiation Therapists were introduced and released by Dr M K Mahajan (Ex Prof and Head) and Mrs Manjinder Dhanoa (Sr Tutor and Technologist) respectively.



A vote of thanks was extended by the scientific committee chairperson Dr Pamela Jeyaraj. Dr Preeti Negi and Dr Abraham P Abraham mastered the inaugural ceremony. Following the inauguration, a prerecorded video message on the IDMP celebration from the President IOMP, Prof Madan Rehani and a live message from the President AFOMP, Prof Arun Chougule were conveyed.

Day 1 Time (IST)	Scientific Programme November 7th, 2021 (Sunday)
10:00AM - 10:30AM	Inaugural Ceremony
10:30AM - 10:40AM	Session I: (IDMP Message from President IOMP, AFOMP)
10:40 AM- 12:30 PM	Session II: Dr Jaineet Sachdeva, Dr Kamlesh Passi I-1: Medical Physicists Indispensable Dr S D Sharma BARC Mumbai I-2: Hadron Therapy Dr Dayanand Sharma Amrita Institute of Coimbatore I-3: Radiation ablation for cardiac arrhythmias Dr D N Sharma AIIMS New Delhi I-4: Extracorporeal RT to bone for Osteosarcoma Dr Aswin Kumar RCC Thiruvananthapuram T-1: The Modular software platform for all Patient QA – VERIQA C Narmada PTW Delhi/emory India
12:30PM-02.10PM	Session III: Dr Subhash Singla, Dr Pamela Jeyaraj, Dr Kavita Palipat ¹ I-5: Artificial Intelligence applications in Intensity Modulated Proton therapy Dr Ganapathi K Apelle Proton Center Chennai I-6: Brachytherapy in the era of precision radiotherapy Dr Bhavna Kal , PGI Chandigarh I-7: Shining girls – dark stories Mr Rakesh Kavil Max Super speciality Hospital New Delhi T-2: Knowledge based planning features in Eclipse TPS Mr Purushothaman K Varian Medical Systems Lunch Break
02.10PM-02.30PM	Session IV: Best Poster Session (Judge: Dr A K Shukla, Dr L M Aggrawal, Dr Ajay Srivastava) PP-1: Management of treatment delivery in cancer patients in Radiation Oncology department during Covid-19 Pandemic: Pandemic preparedness plan in Radiation Oncology. PP-2: Dr Ajay Ahmed Khan Bangalore PP-3: LDR Luminous Radio Therapy Arpana Anandha Raj Noida PP-4: LINAC based Stereotactic Radiation Therapy with Varian High definition MLC for Brain metastases: a Dosimetric study David Ayres Noida PP-5: Measurement of Our-of-Field doses for flattened and uniformed X-ray beams using Ionization chamber and MOSFET detector Gokul A Noida PP-6: The Correlation between Dose Homogeneity Index and Target Volume in Intracranial brachytherapy treatment plan Gurpreet Kaur Faridkot PP-7: Dosimetric characterization of Radiation risk to eye, nose, parotid and thyroid gland in dental intraoral radiography Chirag Patel Mumbai PP-8: Effect of Pulse Train Composition on Dose Distribution for Low and High-energy Photon Emission Sources Using GATE v8.2 Lakshmi Ait-Meskif Morocco PP-9: A comparative dosimetric study of field in field and IMRT techniques in the treatment of breast cancer Praveen Kumar P Bangalore PP-10: A Study of Radiation Therapy Dispenser System in Nuclear Medicine Field Niranjana Aida Baharudin Asia Malaysia PP-11: Decommissioning of Teletherapy Machine and Transport of Decayed Teletherapy Source Priya Saini Jaipur PP-12: Radiation Protection in Diagnostic Radiology Sureshni Helder Kolkata
03.30PM-04.30PM	Session V: Dr Preety Negi, Dr Harith Gambhir, Dr Dimple Bhatia P-1: Design and development of QA device for verification of prescription dose in single channel HDR vaginal brachytherapy applications Dr Chalapalli Srikrishna : KMC Mangalore P-2: QA of CT Simulator Dr Rakesh Desai , Shreeji Medical Cybertron, IMT Manesar P-3: Comparative Study of Breast Radiation Therapy in Prone Position using Prone Breast Board couch Verus Supine Position Mr Prakash Bhatia Hindoos Hospital Mumbai P-4: The Role of the Radiotherapy Technologist in Prospective Evaluation of Quality of Life Scores in Patients of Head-Neck Cancer on Radical Chemoradiotherapy Mr Debjyoti Dhar Tata Cancer Hospital Andheri Mumbai
04.30PM-06.00PM	Session VI: Dr Mary Joan, Mrs Manjinder Dhanoa I-8: The Physics of SBRT for moving targets Dr Raghavendra Hella, Ruby Hall Clinic Pune I-9: Treatment of AVM: Radiotherapist's perspective Mr Deepak Kumar King Hammad University Bahrain I-10: Virtual Environment Radiation Therapy (VERT): A virtual reality linear accelerator that brings treatment room to the classroom Mr Subramanya Sivaram Belcher College USA

The first invited talk of the conference was on 'Medical Physicists are indispensable' by Dr SD Sharma, President AMPI. Talk by Dr Dayanand Sharma on Hadron Therapy, Dr DN Sharma on Radiation Ablation for Cardiac Arrhythmias, Dr Aswin Kumar on Extracorporeal RT to Bone for Osteosarcoma, Ms C Narmada on The Modular software platform for all Patient QA – VERIQA constituted the first session followed by Dr K Ganapathy on Artificial Intelligence applications in Intensity Modulated Proton Therapy, Dr Bhavana

Rai on Brachytherapy in the era of precession RT, Mr Rakesh Kaul on Shining Girls-Dark Stories and Mr Purushothaman K on Knowledge based planning features in Eclipse TPS constituted a brain stroming second session. The Pearl Jubilee Best Poster session Comprised 11 poster presentations followed by the proferred paper session of 4 talks. The session VI, last session of Day 1 constitutred talk by Dr Raghavendra Holla on Physics of SBRT for moving targets, Mr Deepak Kumar on treatment of AVM: Radiotherapist's perspective, Mr Subramanya Betageri on (VERT): A virtual reality linear accelerator that brings treatment room to the classroom. Each talk was followed by enlightening Q&A. Not only the queries were cleared, but also expert opinions were shared.

Day 2 Time (IST)		Scientific Programme November 8 th , 2021 (Monday)
10.00AM-11.45AM		Session VII: Dr Subhash Singla, Dr Anjali Susan I-11: Medical Physicists- Challenges as Health Professionals Dr Arun Chougule AFOMP President I-12: IDoR Symposium Interventional Radiology in CMC Ludhiana: Dr Vivek Agarwal and Dr Amit Batra I-13: MR Principles - An Overview Dr S Panneer Selvam SRINERK Chennai I-14: Artificial Intelligence: Way ahead for Radiology Mr Mukesh Jain SMSMC Jaipur
11.45PM-01.30PM		Session VIII: Dr Pankaj Tandon I-15: Are oncology patients getting high radiation doses from CT and PET/CT scans? Dr M Rekha IOMP President I-16: Roles and Responsibilities of Nuclear Medicine Physician in the Practice of Nuclear Medicine Dr Pankaj Tandon AERB Mumbai I-17: Role of PET based RT planning Dr Riju G KIMS Thiruvananthapuram I-18: Establishing a new cancer center-Pearls and Perils Dr Rakesh Kapoor HBHR Mullaapur&Sangrur
01.30PM-02.00PM		Lunch Break
02.00PM-03.00PM		Session IX: Best paper session (Judges: Dr Arun Chougule, Dr Kamlesh Passi, Dr VK Dangal) OP-1: Radiobiological modelling of radiation induced acute skin toxicity (dermatitis): a single institutional study of breast carcinoma Balbir Singh AIIMS Bhopal OP-2: The influence of overall treatment time in TCP & NTP model based predictions for squamous cell carcinoma of head & neck cancer treatment plan Ganesh Kumar Patel BHU Varanasi OP-3: The number with determination of a single beam and 192 beams of Gamma Knife PerfexionTM based on Monte Carlo simulation J Junis: Indonesia OP-4: Dosimetric Comparison between Intensity modulated radiotherapy versus volumetric modulated arc therapy treatment plan for Breast Cancer Mahshereh Rakan Bangladesh OP-5: Low Dose Total Skin Electron Beam Therapy for the treatment of Mycosis Fungoides: Case Report of a young patient with Histology of Seborrheic Keratosis Dr Suman Kanti Mandal PGIMS Rohilkhand OP-6: Computational analysis of <i>ex-vivo</i> adenosarcoma plaque by Electron microscopy and contrast enhanced Dual Energy CT images to detect type of plaque Dr Suman Kanti Mandal PGIMS Rohilkhand OP-7: Comparison of Treatment Plans in Breast Cancer Radiotherapy: An <i>In-Vivo</i> Phantom Dosimetry Study Sushma Pejawar KMIO Bangalore
03.00PM-04.30PM		Session X: Panel Discussion: Extends of the frontiers of Medical Physics in Diagnostic Radiology, Nuclear Medicine and Radiotherapy: Current Issues and Way Forward. Dr Arun Chougule SMS Jaipur (Moderator) Dr GK Rath AIIMS New Delhi Dr Sanjay Sharma AIIMS Delhi Dr A K Shukla PGIMS Lucknow Dr G Sahani AERB Mumbai Mr Gurvinder Singh Wadhwani RGCI Delhi Dr S D Sharma BARC Mumbai Dr Rajesh Verkhotits Mirz Bhatinda Dr Pratik Kumar AIIMS Delhi Dr Lalit Agarwal BHU Varanasi Dr P K Dash Sharma AERB Mumbai
04.30PM-05.00PM		Valedictory Function

The second day, scientific programme started with a brief introduction on the international Day of Radiology by the Organising Secretary Dr Mary Joan. Prof Arun Chougule President AFOMP deliceder the first talk on M edical Physicists Challenges as Health Professionals followed by the IDoR symposium on Interventional Radiology in CMC Ludhiana presented by Dr Vivek Agarwal and Dr Amit Batra. Dr S Panneer Selvam talked on MR Principles an overview and Mr Mukesh Jain on Artificial Intelligence:Way ahead for Radiology. The second session of the day, session VIII of the conferencecomprised of talk by Dr Rakesh Kapoor on Establishing a new cancer center-Pearls and Perils, Dr Pankaj Tandon on Roles and Responsibilities of Nuclear Medicine Physicists in the Practice of Nuclear Medicine, Dr G Riju on Role of PET based RT planning and concluded by the

pre recorded video of Dr Madan Rehani's talk on Are oncology patients getting high radiation doses from CT and PET/CT exams. The Pearl Jubilee best oral paper presentation followed where 7 delegates presented their research work. The last session was a mind bloing panel discussion on Extends of the frontiers of Medical Physics in Diagnostic Radiology, Nuclear Medicine and Radiotherapy: Current Issues and Way Forward.

Overall, we had 10 scientific sessions which covered 18 invited talks, 4 proferred talks, 11 poster presentations and 7 oral presentations in addition to the IDMP messages from Presidents of IOMP and AFOMP and a panel discussion on 'Extends of the frontiers of Medical Physics in Diagnostic Radiology, Nuclear Medicine and Radiotherapy: Current Issues and Way Forward'. Stalwarts in the field of Medical Physics, Radiation Oncology, Radiology, Radiation Technology who play significant role as educators, regulators and policy makers very actively interacted and given their insights on how to tackle the current issues and how to jump over the hurdles. Delegates from about 40 countries across the world took part in this virtual conference. A cumulative participation of 962 radiation professionals in the two-day conference was highly encouraging and definitely a morale booster not only to the organisers but also to the participants as well. An expert line of speakers were gathered on the virtual platform to share their views and experience on diverse professional issues and their resolution. It was a unique platform for all radiation professionals from different domains of radiation physics, radiation biology, radiation dosimetry and clinical medical applications to get together, know each other and appreciate and acknowledge the contributions of each domain. The organizers would like to take this opportunity to sincerely thank each and every one who spared the valuable time to actively participate in this conference enhancing the scientific exactitude of each other. We are confident that this IDMP-IDoR celebrations 2021 will prove to be a milestone for the medical physics community and help us all in developing ourselves as indispensable healthcare professionals.

Below are few newspaper clips in local (Punjabi) and regional (Hindi) languages and in English.

On the occasion of International Day of Medical Physics & International Day of Radiology, the Departments of Radiation Oncology & Radio diagnosis CMC & Hospital Ludhiana is organizing a 2 day Virtual Conference on Radiation Applications in Medicine on the 7th & 8th of November, 2021.



Conference on role of radiological imaging and treatment ends

HT Correspondent

ALABAMA: A two-day v.

LUDHIANA: A two-day conference organised by Christian Medical College and Hospital to spread awareness on the contributions of radiological imaging and treatment to health care concluded on Monday.

The conference was organised to mark International Day of Medical Physics and International Day of Radiology.

The event was attended by around 350 delegates and it

provided a platform to the medical fraternity to exchange ideas and information regarding improvement of patient care in the fields of radiation oncology and radiodiagnosis. National and international faculty members also presented research papers.

During the virtual event, the Pearl Jubilee Best Poster Award was won by Oguntade Oluwaramtimi Felix from Federal University of Technology, Nigeria, while the Pearl Jubilee Best Paper Award went to Balbir Singh from AIIMS, Bathinda.

2-DAY VIRTUAL CONFERENCE ON RADIATION APPLICATIONS KICKS OFF

LUZHOKA: A two-day virtual conference on radiation applications in medicine kicked off on the occasion of International Day of Medical Physics and International Day of Radiology at the departments of radiation oncology and radio diagnosis at the Christian Medical College, Vellore, on 11-12 November.

This celebration also coincides with the 50th jubilee of the commencement of the postgraduate programme at the department of medical physics at CMC, which is the largest private radiotherapy department in the region having been established in 2006, delivering quality treatment to cancer patients at affordable prices.

The conference, which will

The conference will be an opportunity for an exchange of the contributions of radiological imaging and treatment to beautification and the tremendous role of aesthetic professionals in providing quality care to patients. Quality in both medical diagnosis and aesthetic treatment is dependent on teamwork between qualified personnel such as radiologists, medical physicians and doctors. The event will provide a platform to all personnel, leading to better understanding and collaboration within a team.

Medical Physicists have been very efficiently planning the radiation treatment for cancer patients, corroborating quality assurance of equipment and procedural protocols, researching on new diagnostic and treatment modalities, ensuring radiation protection and safety of patients and personnel in various streams of healthcare. It is the need of the hour to raise the professional profile of medical physics and we have tried to bring light to the current issues and how to resolve them.

The organizers highly appreciate the active participation, cooperation and endorsement of the organizations IOMP, AFOMP, SCMPCR, AMPI NC, NZ AROI, IRIA, NMPAI, NAAD, ARTTI and ISRT for their support in organizing this conference. A word of thanks to AMPI NC and our trade partners, without whom this conference couldn't be arranged as beautiful as it was.

As discussed and disseminated in the conference, a single day or two days IDMP celebrations might not completely serve the purpose of uplifting the professional status of medical physicists in healthcare. We should equip and improve ourselves to meet the challenges efficiently. There are great times ahead of us; Country needs our service. Each one of us is needed - in our country, community and university - to ensure decisive, visible and measurable actions are taken for the medical physics profession. As we celebrated the IDMP and IDoR 2021 by holding this international Virtual Conference on Radiation Applications in Medicine, the spirit of this conference will make each and every one of us to be a leader not only within our own spheres of influence but also in the associated multidisciplinary specialties and commit to take pragmatic action to accelerate professional and personal development. Wishing everyone a fruitful IDMP& IDoR 2021!



[Download conference report](#)

[Download conference souvenir & abstract book](#)

Indonesia celebrates IDMP 2021

ALIANSI FISIKAWAN MEDIK INDONESIA

Indonesian Association of Physicists in Medicine

THE IDMP 2021 REPORT OF IAPM

Number: 118/DPP-AFISMI/XI/2021

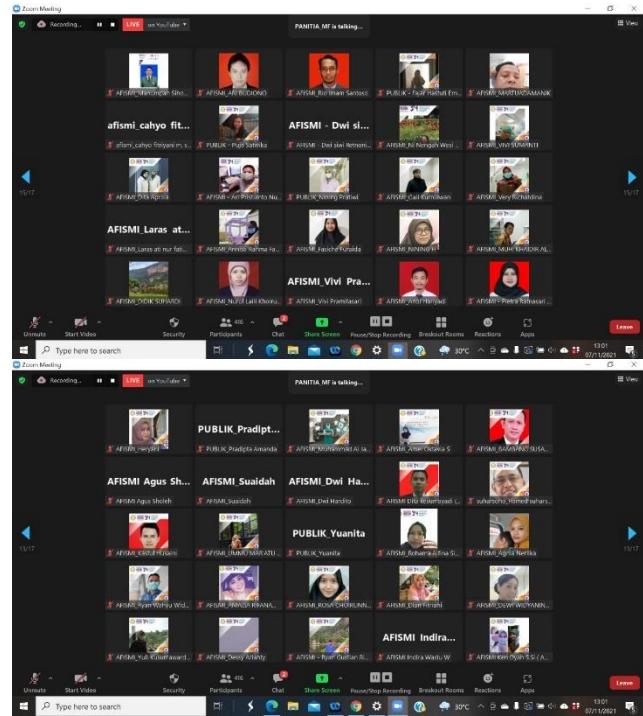
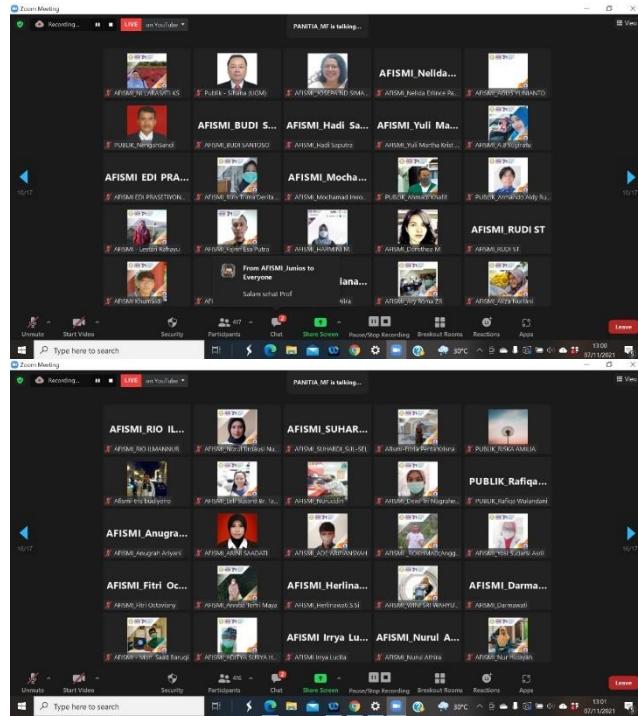
On 7th November 2021, the Indonesian Association Physicist in Medicine (IAPM) held an event to celebrate the International Day of Medical Physics (IDMP) 2021 and the anniversary of IAPM, themed: 34th-year Medical Physicist serving Indonesia. The event was attended by IAPM's members, the academics, and the public by online zoom meeting. There were 2 (two) major agendas, the morning session was a presentation session from 11 Universities of the Indonesian Association of Medical Physics Education Institution and the afternoon session was a celebration for IDMP 2021 and IAPM's anniversary.

The 11 Universities who presented were Universitas Airlangga, Universitas Brawijaya, Diponegoro University, Universitas Hasanuddin, Universitas Indonesia, Institut Teknologi Bandung, Institut Teknologi Sepuluh Nopember, Universitas Gadjah Mada, Univeristas Kristen Satya Wacana, Universitas Nasional, and University of Udayana.

In the celebration session, the IAPM gave Lifetime Achievement Award to the figures who contributed to Indonesia Medical Physics. The award recipients were invited to attended event by offline at Santika Hotel, Harapan Indah, Bekasi, Jawa Barat, Indonesia. They were Prof. Djarwani S. Soejoko; Prof. Dr. Wahyu Setia Budi, M.S.; Prof. dr. HM Djakaria,Sp.Rad (K) Onk.Rad; Dr. Musaddiq Musbach; Rachmad Widodo Adi, Ph.D; Dra. Ratih Oemiyati, M.Pd; Sudharto Wahab, DFM, SH, M.Kes; Sri Sunarsih, M.Si; Agung Nugroho Oktavianto, S.T., M.Si; Yekti Nastiti, S.Si.

Members of IAPM also joined the celebration. They took part in the video competition with the themed Communicating the Role of Medical Physicists to the Public, also joined in the quiz competition.





Iraq celebrates IDMP 2021

The newly elected committee members of the IMPS in 1/10/2021 and directed by the president of IMPS Dr. Mustafa Al-Musawi the first Academic International Medical Physics Conference (AIMPC 2021) in corporation with college of medicine, Al-Mustansiriya University in Baghdad, Iraq. The conference includes multiple sessions.

- The first session contains a speech of the president of the scientific committee and the dean of the college of al- Mustansiriya Prof. Dr. Ali Ismail Al-Gharib, the president of Al-Mustansiriya University, the president of the IMPS, and Dr. Hussam Ragab as a medical physics guest consultant from Egypt. They claimed the important role of the medical physicists in the health managements. Dr. Mustafa al-Musawi focuses on the challenges that faces the medical physicists in Iraq and especially those who work in the ministry of health.



The celebration opening



The president of the scientific committee and the dean of the college of al-Mustansiriya Prof. Dr. Ali Ismail Al-Gharib



The president of Al-Mustansiriya University



IMPS President Dr. Mustafa Al-Musawi



Dr. Hussam Ragab

- The second session was a lecture in medical physics advanced application from Dr. Nassir Alrawi from USM university of Malaysia

Dr. NassirAl-rawi

- The third session involves an accepted papers that will be published by the corporation with the IMPS in a Scopus journal managed in multiple halls for many spatiality that mainly related to a medical physics. The medical physics researches are as follows :

1. Evaluation of Intensity-Modulated Radiation Therapy (IMRT) treatment plans using various numbers of beams in pelvic cases
2. Melasma Removal Using Q-Switched Nd: YAG Laser Toning and High-Intensity Focused Ultrasound
3. The Evaluation of The Two-Dimensional Gamma Passing Rate Efficiency for The Unilateral Breast Cancer Dosimetry Using the IMRT
4. In vitro comparison of low-power diode pumping solid-state laser radiation at 589 and 560 nm on red blood suspension viscosity and deformability
5. Study of the Optical properties for blood Anemia samples using He-Ne and diode 785 nm lasers
6. Comparative study of Using the Nd: YAG laser alone or in Combination with The HIFU Technique for Removing the Professional Tattoo
7. Intensity-Modulated Radiotherapy (IMRT) Versus Three- Dimensional Conformal Radiotherapy (3DCRT) Aa Treatment Plans for Head and Neck Tumors
8. Clinical and Histological Study of Cold Physical Plasma Jet in Treatment of Full Thickness Skin Wounds of Normal and Diabetic Dogs
9. Determination of minimal inhibitory concentration of cadmium for

Brevibacillus agri C15 and Brevibacillus agri C15 CdR

10. Simultaneous Integrated Boost-Intensity Modulated Radiation Therapy (SIB-IMRT) Planning For Pelvic Tumors: Dose Coverage to Target Volume and Normal Tissue Sparing

11. Influence of Geometric Parameters on the Quality of VMAT Plans in Inverse Planning

12. Ultrasound Image Smoothing Based on Adaptive and Non Adaptive Filters

13. The effect of central corneal thickness on intraocular pressure measurement in a sample of Iraqi patients with an age range between 30-60 years old.

14. Effect Of Using Bolus on The Efficiency of the 3DCRT of The Breast Cancer After Mastectomy

15. Effects of protein diet on expression of Anoctamin1 of Cajal cell in the nervous plexus of the stomach in male mice

16. Dosimetry Evaluation of photon beam profile characteristics for different treatment parameters of quality assurance

17. The Correlation Of Modulation Complexity Score (MCS) With Number Of Segments And Local Gamma Passing Rate For The IMRT Treatment Planning Delivery

18. Histological and Histochemical study of Effect of dietary fiber in motility of stomach in male mice

19. Evaluation of Imaging Parameters of Real-time B-mode Ultrasound Scanners in Khartoum

20. An Efficacy of Protection the Organs at Risks Comparison Between The Intensity-Modulated Radiotherapy Therapy (IMRT) and the Three-Dimensional Conformal Radiotherapy (3DCRT)

21. A comparison of intraocular pressure between males and females' Iraqi patients with an age range between 30-60 years old

22. Dosimetric comparison of photon beam profile characteristics for different treatment parameters of quality assurance

23. Evaluation of the hepatoprotective effect of Curcumin alone or in combination with vitamin C in Methotrexate-induced hepatotoxicity in mice

24. Effect of Macro-Tubes Absorber on Parabolic Trough Collector Steam Generation

25. Evaluation of concurrent use of Vitamin C and Niclosamide against methotrexate induced liver injury in mice

26. The value of concomitant testing of cutaneous silent period with sympathetic skin response and heart rate variability in type-2 diabetes: An electrophysiological study

27. Evaluation the effects of Omega-3 alone or in combination with vitamin C on Methotrexate-Induced Liver Injury (in animal model)

28. the angular dependence of the octa in a costume made phantom designed for quality assurance of stereotactic body radiation therapy for vertebral metastases





The application of physics in Laser and HIFU workshop for tattoo removal



The final session was a workshop presented by Dr. Wissam Majeed (Dermatologist) and Shahad Abdulhadi (IMPS member with MSc degree in medical physics)



Organization committee of celebration and conference



Dr. Mustafa and Dr. Ali Ismail With Students college of medicine, al- Mustansiriyah university

Malaysia Celebrates IDMP 2021

IDMP 2021 Promotional Activities from Malaysia

Due to the COVID-19 pandemic and multiple online events run concurrently, our association decided to publish a newspaper article introducing the IDMP and roles of medical physicists to the public. The article was published on the day of IDMP in a local Chinese newspaper, attached with a cartoon sketched by a medical physics colleague. A copy of the article and its English version is attached below.



Healthcare

How much do you know about the International Day of Medical Physics?

November 07, 2021

Journalist | You Yanyan

Today is the International Day of Medical Physics, a sacred day for all workers in the field of medical physics.

In 2013, the International Organization for Medical Physics (IOMP) designated November 7th of every year as the International Day of Medical Physics (IDMP), in order to enhance the understanding of the roles played by a medical physicist. This year's theme is set to "promote the role of medical physicists to the public."

Why is it November 7th? Because on November 7, 1867, the protagonist of this international festival was born. She is Madam Marie Skłodowska-Curie, who conducted pioneering research on radioactivity. Born in Poland, her research on radioactivity laid the foundation for medical physics. Under her guidance, people used radioisotopes to treat tumors for the first time.

Work Silently Behind the Scenes

Most people are forgiven for being unfamiliar with medical physicists, because they usually do not interact directly with patients, but work silently behind the scenes.

Medical physicists are members of the comprehensive medical team of diagnostic radiology, nuclear medicine and radiotherapy. They have the relevant expertise and knowledge in using radiation safely and accurately to achieve the best results of the prescribed medical procedures for diagnosis or treatment. They assess radiation doses and associated risks to patients and personnel, especially for pregnant women and children. In addition, they also play an important role in radiation protection education and training, and participate in research and development to improve patient care.

Exposure to Radiation Hazards

Without a clinically qualified medical physicist, the implementation of medical radiation procedures can lead to the following events:

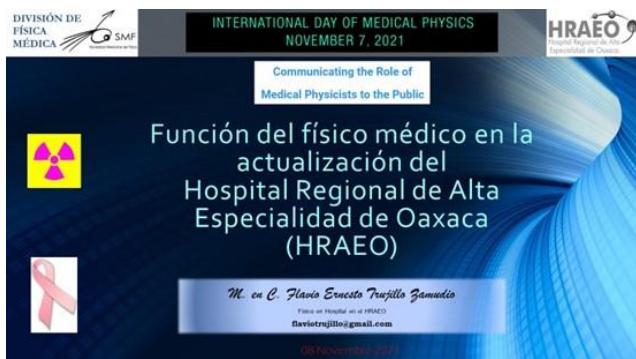
- the patient may receive an incorrect dose which can jeopardize the success of the medical treatment or the quality of diagnosis.
- the medical staff and the public might be in danger of inadvertent or unnecessary radiation exposure.

Mexico celebrates IDMP 2021

In Mexico we had the following activities regarding the International Day of Medical Physics:

A video with the theme of “Communicating the role of medical physicists to the public” was performed in Spanish. The video was directed and edited by M. Sc. Orlando Soberanis and M. Sc. Suemi González. In this video several medical physicists working at hospitals in different places of Mexico explain their work. This video was sent to the members of the Medical Physics Division of the Mexican Physics Society, to members of the Mexican Society of Medical Physicist and to IOMP and it was uploaded in its web page. <https://drive.google.com/file/d/1WSWe95gBPb4NdUL1pNmLVb45wPmW5XqM/view?usp=sharing>

An online conference took place on November 8th, 18:30, local time, with title in Spanish: “Función del físico médico en la actualización del Hospital Regional de Alta Especialidad de OAXACA (HRAEO)” Imparted by M.Sc. Flavio Ernesto Trujillo Zamudio



M.Sc. Flavio Ernesto Trujillo Zamudio

In addition, the following information and announcements in connection with the IDMP were sent to the members of the Medical Physics Division of the Mexican Physics Society:

The IOMP poster for the IDMP.

The IOMP webinar at 12 noon GMT on 7th Nov with 3 invited communication professionals who have expertise in communicating scientific information to the public.

The European page about IDMP celebrations:

<https://www.efomp.org/index.php?r=pages&id=idmp-2021>

The free event organized by the “German Cancer Research Center (DKFZ)”:

Virtual International Day of Medical Physics 2021 in Heidelberg, Sunday, November 7th 2021 from 1 – 2.30pm (CET) with national and international colleagues and hosted online via Zoom. Participation is free of charge and everyone who is interested can register. This Live-Online-Event is supplemented by short videos where members of DKFZ give an insight into their daily tasks and challenges on a commonly understandable level.

The Scientific workday of the international Day of Medical Physics at Cuba (Jornada Científica del Día Internacional de Física Médica) held at Cuba and organized by WIN (nuclear women in Cuba). 7th November, 10 am, local time

The video sent by Sandra Guzmán, ALFIM president in celebration of the International Day of medical Physics:

https://youtu.be/jvOB_HK6xQM

Nepal celebrates IDMP 2021

IDMP 2021 Report: Nepalese Association of Medical Physicist (NAMP)

This year International Day of Medical Physics (IDMP) celebrations were done in spite of holiday in Nepal as we were celebrating Tihar festival also known as the festival of lights. Thanks to COVID19 pandemic situation worldwide, which has changed the conventional method of learning. This has had a huge impact on education system as well as organizing conferences/seminars. Therefore, this year also Nepalese Association of Medical Physicist (NAMP) has used virtual platforms to celebrate IDMP program in Nepal. The program was scheduled on 7th November 2020 at 7: 30 PM Nepal standard time. The theme for this year's IDMP is "Communicating the role of Medical physicist to Public" is very relevant because most of the medical physicists are still working behind the screen. Hence this is the time to come forward to publicize the work as well as responsibilities of medical physicists.



The IDMP day was celebrated through via online platform. This year's IDMP day was celebrated in continuation of clinical lecture series for Nepal. This lecture series was started since the beginning of 2021 by Nepalese Association of Medical Physicists with the physicists working at different institutes in USA via online platform. Different topics like Quality Assurance, treatment planning (specific sites),

treatment procedures like SBRT etc or any other topic that physicist in Nepal are interested to learn about. Dr. Surendra Prajapati from MD Anderson Cancer Hospital is coordinating this lecturer series from US side. The program was started with exchange of greetings among all participating medical physicists working in Nepal and USA. IDMP day message was delivered from acting president, Prof. Shanta Lall Shrestha. The program lasts for almost two hours with very fruitful discussion on different topics like roles and responsibilities, registration, certification, job placement, issues and challenges.



In Nepal, IDMP day was celebrated on 8th of November at B.P. Koirala Memorial Cancer Hospital, Bharatpur, Nepal Cancer Hospital, Kathmandu and at other institutes with the exchange of greetings and cake cutting program including other working staffs at their respective departments.

Dr. Kanchan P. Adhikari, Secretary General, NAMP

Spain celebrates IDMP 2021

The Spanish Society of Medical Physics (SEFM) has celebrated the International Day of Medical Physics (IDMP), and during the weeks leading up to November 7 has developed several activities focused, fundamentally, on the dissemination through social networks and other communication channels of the work that medical physicists carry out in their daily work. It has also spread among its partners and followers the activities carried out by other organizations, especially the IOMP, in commemoration of this day.

The labor of the SEFM and the work of their members over the years has been widely recognized among professionals, but very little has yet reached society. Unfortunately, it is very common to find people who does not know what a medical physicist is. Not without reason this year's motto for the IDMP, "Communicating the Role of Medical Physicists to the Public" refers to this lack in which we must work intensely.

We resolved to took advantage of the powerful tool that the social networks are, and with the especial collaboration of our younger professionals, fundamental protagonists in achieving the objective of publicizing the great contribution that medical physicists make, with their ease of using new communication channel, we spread the goodness of our profession, informing people and trying to involve them in many activities related to the IDMP. For instance, we launch a photographic contest in which the competitors presented excellent photographs on a free subject but related to Medical Physics. The award consisted in the free registration of the *First Curie Day*, which was the icing of the cake of this series of activities in honor of Medical Physics and our beloved Marie Curie. The contest was a success, and the competitors made real works of art, as the one in the Figure 1.

The *First Curie Day* took place in Valencia on November 6th and was organized by the SEFM Youth Group (Figure 2). This is the first face-to-face meeting of the SEFM since the beginning of the pandemic which, added to the fact that the *First Youth Day*, held in November 2020, was also the first completely virtual meeting organized by our Society, shows the growing role of this group within the SEFM.



Figure 1: Left: Winer photograph (Author: Mario Martín Veganzones, Hospital de Cruces, Barakaldo). Right: Marie Curie in a radiocromic film (Author: Javier Ponce, Hospital Sant Joan de Reus, Tarragona)



Figure 2: First Curie Day (Valencia)

Our *First Curie Day* was both academic and festive. There were several presentations in different areas of Medical Physics, among which the presentation of the GAIN (from the acronym in Spanish of *support group for novice researchers*) program deserves a special mention: this project has been conceived and designed for the promotion and assistance in scientific research of younger Spanish medical physicists. There was also room for humor, with monologues related to science; and for the game too, through a contest with questions on "hospital radiophysics" (name given to the health specialty equivalent to Medical Physics in Spain).

In summary, this have been an awesome experience, and for sure it will be the first of many Curie Days, the youngest professionals in our society having the leading role. The Spanish Society of Medical Physics is enthusiastically committed to the objective of spreading the basic notions of Medical Physics through our society, and although the IDMP is the ideal scenario for doing so, we work intensively during the whole year to reach our goal, and let people know how necessary and relevant Medical Physicist are in the healthy area.

South Africa celebrates IDMP 2021

The South African Association of Physicists in Medicine and Biology (SAAPMB) hosted their 58th congress from 8 – 11 November 2021 in the coastal city of Gqeberha, until recently known as Port Elizabeth, or more fondly, as “The Friendly City”. The congress, which is usually held annually, was postponed from 2020. The strict lockdown regulations prohibited an in-person attendance of more than 50 people until recently. Therefore, the on-site attendance was substantially less than normal, but included a hybrid component, which many took advantage of. All attendees received T-shirts and mugs on the first day of the congress, in order to celebrate the International Day of Medical Physics on the opening night of the congress. It was fantastic to connect with colleagues and friends from all over South Africa face-to-face after more than two years. It was enriching to hear about ongoing research at the various institutions in the country and it was great to start it all off on a high with our IDMP celebrations!



OBITUARY: Dr. Udipti Madhvanath



The global medical physics community lost one of its founding fathers, Dr. Udipti Madhvanath, who was IOMP President from 1991-1994 and passed away on 9 December 2021 in his home in Bengaluru, India. He was 89 years old. He was the first President, IOMP outside Western Europe and North America.

Dr. Madhvanath assisted the initiation of the Dip. R.P. course in 1962. Most mainstream medical physicists in radiotherapy facilities in India since late 1960's to 1980's were the product of Dip RP course. M.Sc. medical physics courses were subsequently established in India.

In 1976, Dr. Madhvanath started the quarterly bulletin of AMPI (Association of Medical Physicists in India), being its first Editor. The Bulletin ultimately took the shape of the present Journal of Medical Physics (JMP). JMP is an indexed journal in

PubMed and is one of the official publications of IOMP. He motivated the establishment of regional chapters of AMPI in India. He was founding member and President of AMPI and in 1986 he organised the Asian Regional Conference on Medical Physics.

Dr. Madhvanath was founding member of the IOMP Developing Countries Committee (DCC – now Professional Relations Committee PRC). Following his active work for the global development of medical physics in developing countries, he was elected in 1988 Vice-President (President-Elect) of IOMP at the World Congress in San Antonio, Texas.

In 1991, at the World Congress in Kyoto, Dr. Madhvanath became the 10th President of IOMP and he was Vice-President of IUPESM (the International Union for Physical and Engineering Sciences in Medicine) from 1994 to 1997. In this position he worked towards the recognition of the IUPESM as member of ICSU (International Council of Scientific Unions) – an activity necessary for the official recognition of our scientific fields.

Dr. Madhvanath was awarded Ramaih Naidu Oration in India and with Fellowship of AMPI. Asian Federation of Organizations for Medical Physics (AFOMP) awarded him with its Outstanding Medical Physicists Award. In 2020 IUPESM included Prof Udipti Madhvanath in its first List of Outstanding International Leaders of Medical Physics and Biomedical Engineering and bestowed upon him their inaugural Fellowship, what he was happy to accept at a special online ceremony.

Dr. Madhvanath is survived by a meritorious son Sriganesh Madhvanath who is Senior Director of Applied Research at eBay Inc in the USA. He has established a farewell blog which can be accessed at: <https://nandi.blog/2021/12/13/dr-udipi-madhvanath/>

He was highly spiritually oriented and a devout follower of Sai Baba. He believed in helping others.

IOMP expresses thanks to Dr. Madhvanath for his enormous contribution to the global development of medical physics!

On behalf of the IOMP Executive Committee we are sending deepest condolences to Dr. Madhvanath's family.

Prof. Slavik Tabakov, FIOMP, FIUPESM

IOMP President (2015-2018); IUPESM Vice-President (2018-2022)

Prof. Arun Chougule, FIOMP

AFOMP President (2018-2021), Chair IOMP Education and Training Committee (2018-2022)

Prof. Madan Rehani, FIOMP, FIUPESM

IOMP President (2018-2022)

Calendar of Events

14th Annual International Symposium on Stereotactic Body Radiation Therapy and Stereotactic Radiosurgery

When Feb 25 – 27, 2022
Where Disney's Grand Floridian Resort –
Lake Buena Vista, FL , USA
Website www.clevelandclinicmeded.com/live/courses/sbrt/

Precision Medicine Applications in Radiation Oncology

When Mar 7 – 8, 2022
Where The Ritz-Carlton Bacara, Santa
Barbara, CA USA
Website www.ci4cc.org

5th CONFERENCE ON SMALL ANIMAL PRECISION IMAGE-GUIDED RADIOTHERAPY

When Mar 21 – 23, 2022
Where Munich, Germany (map)
Website small-animal-rt-conference.com

BIR Annual Radiotherapy and Oncology Meeting 2022

When Mar 31 – Apr 1, 2022
Where London, UK and virtual
Website www.mybir.org.uk

13th QA & Dosimetry Symposium

When Apr 8 – 9, 2022
Where Orlando, Florida, USA
Website www.qasymposium.com

International Conference on Monte Carlo Techniques for Medical Applications

When Apr 11 – 13, 2022
Where University of Antwerp, Prinsstraat
13, 2000 Antwerpen, Belgium
Website mcm2022.com

2nd International Scientific Conference on Lasers, Optics, Photonics & Sensors

When Jun 10 – 12, 2022
Where Fort Lauderdale, FL, USA
Website exceleve.com/photonoptics

IUPESM World Congress on Medical Physics and Biomedical Engineering

When Jun 11 – 17, 2022
Where: Sands Expo® and Convention
Centre, Marina Bay Sands. Singapore
Website www.wc2022.org