

## Subcommittee AC2

### **Golam Abu Zakaria, PhD** **Chair**

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Dr. Zakaria is professor of clinical engineering at the University of Applied Sciences in Koethen, Germany. He was the former chairman and chief medical physicist of the independent Department of Medical Radiation Physics at Gummersbach Hospital of the Klinikum Oberberg, an academic teaching hospital of the University Cologne, Germany. He has also been lecturing on medical physics for the School of Medical Physics for Radiation Therapy at the Abdus Salam International Centre for Theoretical Physics (ICTP), Trieste, Italy since 2013. Moreover he has been teaching at the Post Graduate School of Medical Physics, at the Professional Education Centre of the University of Heidelberg since 2014. In 2016 Dr. Zakaria became Distinguished Professor of Biomedical Engineering, College of Information Engineering at the China Jiliang University, Hangzhou, China and in 2017 Adjunct Professor of Biomedical Engineering at the Institute of Science and Technology (MIST) of the Bangladesh University of Professionals in Dhaka (BUP). He is also the founder chairman of the South Asia Centre for Medical Physics and Cancer Research (SCMPCR) in Dhaka, Bangladesh (founded 2018). Besides, he is nominated as the Accreditation Committee-2 Chair of the International Medical Physics Certification Board (IMPCB) since January 2018 and Vice Chair of the International Organization Medical Physics (IOMP) Accreditation Board since October 2018.

As a founding member (1993) and chairman (since 2001) of the DGMP working group "Medical physics in developing countries", Golam Abu Zakaria has protruded organizing numerous medical physics seminars and workshops in different countries under the motto: "Help to self-help". On his initiative, the Department of Medical Physics and Biomedical Engineering was founded at Gono University of Dhaka in 2000, the only department on medical physics and biomedical engineering in Bangladesh. Since 2001 he has been Patron Professor of this university and giving structure to the international master program.

Dr. Zakaria has supervised numerous master, diploma and doctoral theses of German and international students. Moreover, he has enabled others to be trained on-the-job in medical physics. By now, Dr. Zakaria has published more than 110 articles in German and other international journals and books. As an engaged medical physicist he has been member of several scientific societies: DGMP (1983), ESTRO (1992), AAPM (1996) and AMPI (1996) and BMPS (Honorary 2009). He is member of the Editorial Board of Journals, DIN, DIN-ISO and other international task groups.



## Hasin Anupama Azhari, PhD

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Dr. Hasin Anupama Azhari is the Chairman and Professor of the Dept of Medical Physics and Biomedical Engineering, Gono Bishwabidyalay (GB, University) and Dean, Physical and Mathematical Sciences, GB. She has academic experience more than 15 years in academic field and got many clinical trainings in radiation oncology and diagnostic radiology from India, Germany, Italy.



She has been awarded PhD in Medical Physics through a sandwich program between OWSD (Organization for Women in Science for the developing world ICTP, Trieste, Italy) and National University, Bangladesh. About more than 60 research works were published in different national and international Journals and books. She has participated a lot of workshop, training program, conference in different countries. She has organized many national and international conferences and workshops. She acts as a reviewer for different national and international Journals and supervised many BSc projects, MSc thesis and PhD thesis. She has organized many national and international conferences in Medical Physics.

Prof. Dr. Azhari received the “International Day of Medical Physics award 2018” for AFOMP. She has collaborated different countries for development of Medical Physics education in international standard. She was a project coordinator for Bengal translation at EMITEL e-Encyclopaedia of Medical Physics and Multilingual Dictionary and terms, a project of International Organization of Medical Physics (IOMP) from 2000-2015. She received best Paper publication award in Journal of Bangladesh physical Society and her another publication was in the top listed publication in the Zeitschrift for Medical Physics, Germany

Currently she is the executive member for Asia and Pacific Region, Organization for Women in Science for the Developing World (OWSDW), Italy; Secretary- General Asia–Oceania Federation of Organizations for Medical Physics, (AFOMP); CEO, South Asia centre for Medical Physics and Cancer Research (SCMPCR).

She is the Founder President and advisory member of Bangladesh Medical Physics Society (BMPS), Vice President, Bangladesh Association of Women Scientists (BAWS), Regular Associate member, ICTP, member, Bangladesh Physical Society (BPS), European Society for Therapeutic Radiology and Oncology (ESTRO), Association of Medical Physicists of India (AMPI), member, Member, ISEP, American Association of Physicists in Medicine (AAPM), .

She is the first women MP in Bangladesh having MSc in MP, become Chairman in one and only Medical Physics course in Bangladesh in Gono University. She has communicated with the health ministry and other government nongovernment organization to publicize of the subject. She has able to create position and recruitment rules working with Directorate of Health Services and Ministry of Health.

## **Xinace Jin, PhD**

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Dr. Xiance Jin, the chief medical physicist and vice director in the Department of Radiation and Medical Oncology of the 1st Affiliated Hospital of Wenzhou Medical University, Wenzhou, China, started his career as a medical physicist in China in 2001 after he graduated from Zhejiang University. He went to US in 2007 and studied in the medical physics program of University of Toledo for his doctoral degree. He returned to China in September 2011 after he received his Ph.D.

Dr. Xiance Jin is the Chair of Education and Training Committee of Asia-Oceania Federation of Medical Physics (AFOMP), Board member and committee member for the International Medical Physics Certification Board (IMPCB), Subcommittee member of international library subcommittee and member of exchange scientist program subcommittee of AAPM; Professional relationship committee member of International Organization for Medical Physics (IOMP), Associate Editor of Journal of Applied Clinical Medical Physics (JACMP), Vice chairman of Zhejiang Anticancer Association of Radiation Physics Technology Group (AARPTG), Committee member of Radiotherapy Technology Branch of Chinese Association of Medical Equipment; Committee member of Medical Physics Branch of Chinese Society of Biomedical Engineering, Vice chairman and general secretary of Younger Committee of Medical Physics Branch of Chinese Society of Biomedical Engineering, Vice chairman of Radiation Oncology Branch Wujieping Medical Foundation, Member of Youth Commission of Zhejiang Anticancer Association Committee member and vice chairman of Radiotherapy and Chemotherapy Committee of Wenzhou Medical Association

Dr. Jin had published more than 70 papers and abstracts both in Chinese and international journals. His main research interests are innovative cancer prevention and therapy techniques, radiomics, image guided radiotherapy technology. Involved research programs on NPC won Chinese national and provincial awards.



## **Alejandro Rodriguez Laguna**

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Alejandro Rodriguez Laguna is the Chief Medical Physicist and Radiation Protection Officer since 2014 in the radiation oncology department at Medica Sur Hospital in Mexico City.

He is graduated from the medical physics master's degree program at the National Autonomous University of Mexico (UNAM). He worked for five years training response staff in external radiological emergency plans at the Mexican nuclear power plan "Laguna Verde". Subsequently, for five years, he worked as a Radiation Safety Officer at the Nuclear Medicine Department at the Mexican National Institute of



Cancer. He has been working for 11 years as a medical physicist in the area of Radiation Oncology. He has been a teacher at the science faculty at the UNAM since 2007, teaching courses related to radiation physics. He also participates in the training of medical physicists clinically qualified. He thinks medical physicist certification is a crucial component to improve the quality of medical physics practice and to consolidate the medical physics profession.

## **Ho-Ling (Anthony) Liu, PhD, DABR**

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Dr. Liu is Professor and Director of Imaging Physics Residency Program at the Department of Imaging Physics, University of Texas MD Anderson Cancer Center, Houston, Texas, USA. Dr. Liu has a B.S. degree in Physics and M.S. degree in Nuclear Science, both from the National Tsing Hua University in Taiwan. He completed his PhD study in Medical Physics from the University of Texas Health Science Center at San Antonio in 2000. In the same year, he returned to Taiwan and started serving as a faculty in the Department of Medical Imaging and Radiological Sciences (MIRS), Chang Gung University (CGU), and a medical physics consultant in the Department of Medical Imaging and Intervention at the Chang Gung Memorial Hospital (CGMH). During 2004-2005, Dr. Liu obtained imaging physics residency training at the Department of Imaging Physics, University of Texas MD Anderson Cancer Center. He also obtained the American Board of Radiology Certification in Diagnostic Radiologic Physics in 2004. Dr. Liu was Associate Chair of the MIRS between 2005-2010, and he established the medical physics graduate program at CGU in 2006. In 2014, Dr. Liu returned to Houston and served as a tenured Professor at his current department. Dr. Liu became Director of the Imaging Physics Residency Program in 2016.



During 2000-2014, Dr. Liu provided general clinical service in diagnostic imaging physics to the CGMH, the largest hospital in Taiwan. He also provided radiological physics courses to radiology residents and developed a standard physics curriculum for the Radiological Society in Taiwan. Dr. Liu led national survey projects and helped the Atomic Energy Council of Taiwan in establishing regulations on quality assurance of mammography systems (2008) and CT scanners (2011). The Chinese Society of Medical Physics, Taipei, started the certification of Radiation Therapy Physics in 1999. In 2007, Dr. Liu helped adding the Diagnostic Imaging Physics specialty to the Medical Physics certification program in Taiwan. Since Dr. Liu joined MD Anderson in 2014, he has been providing clinical service in magnetic resonance imaging (MRI) physics. He is leading the physics service in the presurgical functional MRI program and the advanced brain tumor imaging program.

## **Katharina Mair, PhD, MAS (medical physics)**

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Expert in Medical Physics for Radiotherapy in Kempten, Germany.

After her graduation from the University of Vienna, Austria, with a Master in Applied Physics (on simulation of the olfactory nervous system) and a Master of Advanced Sciences in Medical Physics (on patch clamp techniques), Dr. Katharina Mair went to CERN (Conseil Europeen pour la Recherche Nucleair) in Geneva, Switzerland, for her PhD and Fellowship on detector physics. Since 2009 she is working as a medical physicist in radiotherapy in Germany, where she is responsible for planning, dosimetry, quality assurance and irradiation protection.

During her time at the University Hospital in Ulm, Germany, she was in charge of introducing the at that time still new technique of volumetric modulated arc therapy (VMAT) into clinical routine. Dose monitoring with xray films, detector arrays, TLD (thermos luminescence detectors) and ionization chambers in various phantoms was in her focus. She was supervising retrospective dose reconstruction and measurement to second tumor sites following radiotherapy, which was part of the EC funded ALLEGRO project. TLD in vitro measurements were furthermore undertaken for establishing better positioning and irradiation arrangements in order to prevent scatter dose in special clinical treatments, f.ex. unilateral seminoma treatment.

In the more recent years, Dr. Katharina Mair works for a private center for radiotherapy, Strahlentherapie Sued in Kempten, Germany, where next to routine work in planning and quality assurance her major activity now is in risk management. Besides, she is a lecturer for radio protection courses, teaches at the school for medical technologists, and works as a counselor for nuclear diagnostics at the Hospital in Kempten, Germany. Her latest contribution to research was measurements for quality control and patient dose estimation for conebeam-CTs.

Since 2019 Dr. Mair is a volunteer at SES (Senior Expert Services), Germany, a foundation with the aim of educational exchange and knowledge transfer all over the world.



## **Belal Moftah, PhD, FCCPM**

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Chairman, Biomedical Physics Department, King Faisal Specialist Hospital and Research Centre (KFSH&RC), Riyadh, Saudi Arabia  
Adjunct Professor, Gerald Bronfman Department of Oncology, McGill University, Montreal, Canada

Dr. Moftah graduated in 1988 from the University of Winnipeg with double major in Physics and Math. He was the winner of several medical prizes, including the University Golden Medal. He received his Master of Science degree in Nuclear Physics at the University of British





Columbia in 1991 and his PhD degree in Particle/High Energy Physics in 1996.

From February 1996 till November 1997, Dr. Moftah worked at UBC and TRIUMF as a Post-Doctoral fellow and then as a Lecturer. In November 1997, Dr Moftah won a scholarship from the AAPM to join the McGill University Radiation Oncology Physics Residency Training Program under the supervision of Prof. Ervin Podgorsak. In 1999, he became the first resident graduating from the first Canadian CAMPEP accredited residency training program. During the period of November 1998-July 2001, he was employed as a Clinical Physicist at the Department of Medical Physics, McGill University Health Centre.

Dr Moftah is board certified in radiotherapy by the Canadian College of Physicists in Medicine and is a fellow of the same College. In July 2001, Dr. Moftah took on a senior medical physicist position at KFSH&RC in Jeddah where he established a Medical Physics Department and became its 1st Chairman in February 2004. In September 2005, Dr. Moftah moved to the main KFSH&RC campus in Riyadh and became the Chairman of the Department of Biomedical Physics. He served as a clinical radiotherapy physicist and consultant at various distinguished institutions. Dr. Moftah focus has been on setting up medical physics and radiotherapy services as well as the development of state-of-the-art radiotherapy techniques. Dr. Moftah was selected as one of five eminent experts to serve on the IAEA Independent Panel of Experts on Human Health for the Comparative Assessment of Nuclear Technology. He was Counterpart for several IAEA TC projects as well as the Chairman of the IAEA ARASIA Clinical Residency Training Working Group. Dr. Moftah served as Chairman of conferences, courses and workshops, the last of which is the 6th International Conference on Radiation Medicine (ICRM2020), [www.radmed.org](http://www.radmed.org). Dr. Moftah is a member of several international and national professional societies. He has published 48 peer-reviewed manuscripts, 34 conference proceeding articles and 62 abstracts. He presented 90 invited presentations and 94 conference presentations. He is the Project Owner for the \$ 10 Million KFSH&RC transformation project “Integrated Biomedical Physics Center: Delivery of Precision Radiation Medicine”, which includes setting up a Medical 3D Printing Core Facility. Dr. Moftah is an Adjunct Professor at McGill University.

## **Raju Prasad Srivastava, PhD**

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Dr Raju Prasad Srivastava is a Medical Physicist at Department of Radiation therapy, University Hospital Ghent, Corneel Heymanslaan 10, 9000 Gent, Belgium. He is also a Medical Physicist at Department of Radiotherapy, Centre Hospitalier de Mouscron Avenue de Fécamp, 49 B-7700 Mouscron, Belgium. He achieved his MS in Physics from Tribhuvan University, Kathmandu, Nepal. He completed diploma in Radiological Physics (Dip.R.P.) from BARC, Mumbai, India in 2000 and he worked as senior medical physicist in Nepal until 2006. He is granted as “Master of Science in de medische stralingsfysica” NARIC, Belgium. In 2012, he completed his PhD in Medical Physics from Ghent University Ghent, Belgium.



Dr. Srivastava is a member of various scientific societies which includes AMPI, IARP, BHPA, UICC, ISRP. He is an Editorial member of the Journal of Cancer Treatment and Research. He received many prestigious awards (BOF, ICREET, UICC, VLIR, IAEA etc.). Several students have completed their master degree thesis in medical physics under his guidance. Dr Srivastava has published over 25 scientific papers in various topics for treatment of cancer. He has participated in more than 30 conferences, locally and internationally. Currently, his main research interests are: Stereotactic radiosurgery (SRS), Stereotactic Body Radiation Therapy (SBRT), and VMAT. He is a core member of the quality control team in the department. Dr. Srivastava is willing and eager to serve for the international board of certification.