Subcommittee AC2

David Jaffray, PhD
Chair

Email: david.jaffray@rmp.uhn.on.ca

Dr. David Jaffray graduated from the University of Alberta with a B.Sc. in Physics (Hons.) in 1988 and completed his Ph.D. in the Department of Medical Biophysics at the University of Western Ontario in 1994. Following graduation, he took a position as Staff Physicist in the Department of Radiation Oncology at William Beaumont Hospital in Michigan where he instigated a direction of research that garnered funding from the NIH and from congressionally-directed funding programs. Dr. Jaffray became a Board Certified Medical Physicist (ABMP – Radiation Oncology) in 1999. In 2002, Dr. Jaffray joined the Princess Margaret Hospital in Toronto as Head of Radiation Physics and a Senior Scientist within the Ontario Cancer Institute. David holds the Fidani Chair in Radiation Physics, is the Director of the TECHNA Institute for Health Technology Development at the University Health Network and recently became the Executive Vice President of Technology and Innovation at the University Health Network. He is a Professor in the Departments of Radiation Oncology, Medical Biophysics, and Institute for Biomaterials and Biomedical Engineering at the University of Toronto. His primary area of research has been in the development and application of image-guided therapy. He has over 5 patents issued and several licensed, including, kilovoltage cone-beam computed tomography for image-guided radiation therapy. Dr. Jaffray has >200 peer-reviewed publications in the field, >100 invited lectures, and holds numerous peer-review and industry sponsored research grants. He sits on numerous scientific and research boards and has contributed to the NIH and CIHR grant review process for several years. He is an active member of the AAPM and teaching role in workshops and annual meeting of the American Society of Therapeutic Radiation Oncology (ASTRO). He has an active interest in commercialization and led the development of a variety of commercial products including software and hardware for QA and the development of small animal irradiator systems for basic research. He has successfully supervised over 20 graduate students and fellows. Dr. Jaffray has won each of the major prizes in the field of the medical physics, including, the Sylvia Sorkin-Greenfield Award, The Farrington Daniels Award, and the Sylvia Fedoruk Award. In 2004, Dr. Jaffray was identified as one of Canada's Top 40 Under 40 and was recognized by The University of Western Ontario with their Young Alumni Award in 2004. His current research interests focus on the development of imaging technologies and methods with a focus on image-guided interventions, including radiation therapy, drug delivery, and surgery.

Howell Round, PhD

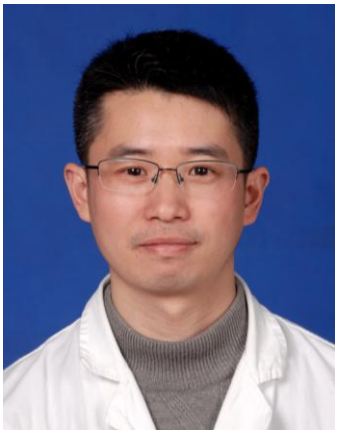
Email: phys0067@waikato.ac.nz

Assoc. Prof. Howell Round received his BSc(Tech) (Physics) from the University of Waikato(NZ), his MSc (Medical Physics) from the University of Surrey (UK) and his PhD (Electrical and Electronic Engineering) from the University of Canterbury (NZ).

Having started his career as a clinical physicist in New Zealand and Australia, since 1985 he has been at the University of Waikato, Hamilton, New Zealand, where he lectures in physics, electronics and control theory. His particular research interests are in medical physics education, workforce issues, professional matters, certification, policy and Monte Carlo modelling.

He is the Secretary General of the Asia-Oceania Federation of Organizations for Medical Physics (AFOMP) and previously served as President of the Australasian College of Physical scientists and Engineers in Medicine (ACPSEM). He chairs or serves on various committees of IOMP, AFOMP and ACPSEM. From 2014 he will chair the Professional Standards Board of the ACPSEM. He is a Fellow of ACPSEM, the New Zealand Institute of Physics and the Institution of Professional Engineers of New Zealand.

Xiance Jin, PhD



Chief medical physicist and vice director in the Department of Radiotherapy and Chemotherapy of the 1st Affiliated Hospital of Wenzhou Medical University, Wenzhou , China. 325000
Email: jinxc1979@hotmail.com, Phone/Fax: 0086-577-88069370
Xiance Jin started his career as a medical physicist in China in 2001 after he graduated from Zhejiang University with a BS degree in physics. He went to US in 2007 and studied in the medical physics program of University of Toledo for his Ph.D degree.. He went back to China in September 2011 after he got his Ph.D. His Ph.D thesis is " Evaluation of Large Area Polycrystalline CdTe Detector for Diagnostic X-ray Imaging"
Dr. Xiance Jin has been involved in medical physics for more than 12 years. He is a full member of AAPM and is eligible for ABR board certification. He passed the physics part of Part I ABR. Now is working on the remaining ABR certification exams. Dr. Jin had published more than 20 papers and abstracts both in Chinese and international journals. His main research interests are new technologies and devices of radiotherapy for nasopharyngeal cancer and other cancers. Involved research programs on NPC won Chinese national and provincial awards.
As a young medical physicist working in China with international education background, Dr. Jin is willing and eager to serve for the international board of certification to do his own contribution to the development of international and China medical physics.

Alejandro Rodriguez Laguna, M.S.

Email: alejandro.rodriguez.laguna@gmail.com
My name is Alejandro Rodriguez Laguna, I am from Mexico City. I have a degree in the career in physics and a master degree in medical physics from the National Autonomous University of Mexico (UNAM).
I worked for 5 years as a Head Department in the area of training of radiological emergency plans at the Mexican National Center of Disaster Prevention. I have worked for 5 years as a Radiation Safety Officer at the Nuclear Medicin Department in the Mexican National Institute of Cancer. I also have been working for 4 years as a Medical Physicist in the area of Radiation Therapy in one of the most prestigious private Hospital in Mexico.
I'm professor at the science faculty in the UNAM since 2007 teaching asignatures related to medical physics. I also participate in the training of medical physicists clinically qualified.
I think, the certification of medical physicist is a key component to improve the quality of medical physics practice and to consolidate the medical physics profession.
At the present time, there is an unprecedented attempt of the Mexican Federation of Medical Physics Organizations (FMOFM) to implement a national system of medical physicist certification. With the FMOFM as a charter member of the IMPCB we'll encourage efforts to achieve this goal.

I'm willing to serve as the Treasurer of the IMPCB and contribute to create the International Certification Board. I'll participate actively in the certification process in my country and as a member of the IMPCB, I'll contribute with the Mexican experience to the international certification initiative.

Ibrahim Duhaini, BS, TD, MSc.

Email: duhaini@yahoo.com,
Rafik Hariri University Hospital, Beirut- Lebanon

Ibrahim is the Chief Medical Physicist (Radiation Oncology Department) and the Radiation Safety Officer since 2004 at Rafik Hariri University Hospital (RHUH) in Beirut, Lebanon.
From 2012 till mid 2013, he worked at Hamad Medical Corporation in Qatar as the Director of Radiation Safety overseeing 8 hospitals in the corporation and covering all Radiation Departments.
In 2000, He earned a master degree in Medical Physics from Wayne State University Medical School in Detroit, Michigan, USA. Then he worked at several hospitals in Michigan and as a MP consultant for training medical physicists on Prostate Seed Implant Procedures with BARD. He also served as the secretary general of the Great Lakes, Michigan Chapter of the American Association of Physicists in Medicine (AAPM).
In 2006, He helped found the Lebanese Association of Medical Physics (LAMP). He was also the founding member and currently serves as the President of the Middle East Federation of Organizations of Medical Physics (MEFOMP).
He is an active member in many committees of the International Organization of Medical Physics (IOMP) namely: Education and Training, Professional Relations, Awards & Honors, International Medical Physics Certification Board, and Calendar Editor for e-MPW.
Academic Activities:

- ✓ Training and teaching radiotherapy Technicians, Dosimetrist, and junior physicists (Lebanon)
- ✓ Training Physicists on how to plan 3D Prostate Seed Implant In Vivo in the OR (USA)
- ✓ Participated in more than 30 conferences locally, USA, Europe and the ME region.
- ✓ Establishing Guidelines of Radiation Protection for Private Radiology Centers (Lebanon)
- ✓ Training the Iraqi delegation from Sulaymaniah Radiotherapy Center at RHUH (2009).
- ✓ Preparing course outline for a degree in Medical Physics in Lebanon.
- ✓ Participated with other tasks in collaboration with the Lebanese Atomic Energy Commission (LAEC) and the IAEA.
- ✓ Delivered a course titled: Authorization and Inspection of Radiation Sources in RADIOTHERAPY, in Tunisia (May 2011)
- ✓ Delivering Radiation Safety Course on a regular basis in Arab Countries throughout the year.
- ✓ Established, updated and delivered different Radiation Safety Training Programs tailored at different spectators as follows:
  - For all Radiation Workers for the purpose of attaining Radiation License.
  - For Medical Residences as part of their curriculum
  - For Radiology Residence Students as part of their curriculum.
  - For Physicians and Specialists who are involved in radiation
  - For Nurses as part of acquiring Continuous Education and earning CNE credits.

Recently, Ibrahim has established his own consulting service company "Radiation Expert Group" REG which is officially registered in Michigan (USA), Beirut (Lebanon), and Doha (Qatar).

Ho-Ling Anthony Liu, PhD, DABR

Email: holingliu@gmail.com
Professor
Department of Medical Imaging and Radiological Sciences
College of Medicine, Chang Gung University
259 Wenhwa 1st Road, Kweishan, Taoyuan 333, Taiwan
TEL: +886-32118800 Ext. 5394, E-mail: hlaliu@mail.cgu.edu.tw

Professor 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 to serve as a faculty in his current department at Chang Gung University and a medical physics consultant in the Department of Medical Imaging and Intervention at Chang Gung Memorial Hospital
(CGMH). Later Anthony joined the Department of Imaging Physics at the UT MD Anderson Cancer Center and completed his residency training in 2005. Immediately after that he returned to the same institutions in Taiwan. During his stay in Houston, Anthony obtained the American Board of Radiology Certification in Diagnostic Radiologic Physics in 2004.
CGMH is the largest hospital in Taiwan with more than 3,300 beds. Working as a imaging physicist, Anthony has opportunities dealing with wide variety of imaging modalities including advanced systems such as 3T MRI, 320-row CT, contrast enhanced spectral mammography and biplane flat panel angiography. He provides radiological physics courses to radiology residents and is helping to build a standard physics curriculum for the Radiological Society ROC. Anthony's research interest is mainly in functional and quantitative MRI. He has published over 80 scientific papers in the related fields. Being one of the few diagnostic physicists in Taiwan, Anthony have been leading national survey projects and helping the Atomic Energy Council of Taiwan for 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, Anthony helped adding the Diagnostic Imaging Physics specialty to the Medical Physics certification program in Taiwan.

K.J. Maria Das, PhD

Email:kjmariadas@hotmail.com
Sanjay Gandhi Postgraduate Institute of Medical Sciences, Department of Radiotherapy, Rae Bareli Raod, Lucknow, Uttar Pradesh, India.

I joined as a full time Medical Physicist in June 1991 and later on the roles of Faculty as Assistant Professor (Medical Physics) since Sept 2004 and presently working as Additional Professor (Medical Physics). The Department of Radiotherapy which was started in 1990 with all the modern equipments and again in 2004 the department has received huge grants from DST, Government of India and updated to the state of art radiation therapy using equipments like Clinac 2100CD linear accelerator with OBI and Clinac CL600C with IMRT and image guidance facility along with multislice CT scanner (4D CT) and Tele-radiotherapy network for practicing SRS/SRT, 3D- CRT and IMRT with image guided radiation therapy. The department academic activities involve teaching and training of M.D. (Radiotherapy), Ph.D programs and Medical Physics residency programme.

The initial research include the development of 3-dimensional radiotherapy treatment planning system I was mainly responsible for providing the basic requirement of this 3D-TPS, conceive the different functions and applications that would be needed to make this a state-of-art 3D TPS and carry out quality assurance. A number of different aspects emerged as an offshoot to the main the project which includes: multi-sectional planning, treatment optimization and numerical scoring of various rival treatment plans. My areas on work for the Ph.D thesis pertained to the development and quality assurance of the indigenous 3-dimensional treatment planning system which included the concepts of numerical scoring of rival plans incorporating biological responses in it.

Recipient of the “US-INDIA Medical Physics Foundation Award & Citation” and “Best Paper Award- AROI Conference” along with contributing as co-author in twelve more “Best Paper Award” at AROI and AMPI conferences. Awardee of ICRETT fellowship by UICC (1994) and ICMR International fellowship (2008), and had technical training at UK, Germany, Netherlands and France. Published more than 45 full paper and 68 abstracts at national and international journals. Members of various scientific societies which includes AMPI, APPM, ESTRO, AROI, IARP. Editorial members of the Journal of Medical Physics and IJMPCERO.