



Dr. Cheng Saw is currently the Director of Medical Physics and Radiation Safety Officer at the Northeast Radiation Oncology Centers (NROC), Dunmore, Pennsylvania, USA. He received his PhD degree in Experimental Low Nuclear Physics from the Florida State University, Tallahassee, FL, USA in 1983. After that, he assumed a fellow position in the Department of Radiology, University of Miami, FL, USA. In 1984, he took a trainee position in Medical Physics at the Department of Radiation Oncology and Nuclear Medicine, Thomas Jefferson University, Philadelphia, PA. He was certified by the American Board of Radiology in Therapeutic Radiological Physics in 1989 and American Board of Medical Physics in Radiation Oncology in 1990. Dr. Saw was elected fellow of AAPM in 1998. He has been active serving in a number of committees of AAPM including the Awards and Honor Committee, Program Committee, Board of Directors, and Chairs to the Asian Oceanic, Partners-In-Physics, and International Scientific Exchange Program.

Dr. Saw is known for his research, in particular, in brachytherapy. He was among the few looking at the quantitative assessment of interstitial implants using Iridium-192 at the time radiation oncology was evolving into the computerized era and image-based planning. Among the indices of evaluation he introduced was coverage index, homogeneity index, and external volume index. As radiation oncology evolved into image-based 3D treatment planning, he served as guest editor in three volumes of Medical Dosimetry journal looking at MiMIC-based, MLC-based, and clinical applications in performing the newly introduced Conformal Radiation Therapy (CRT) and Intensity-Modulate Radiation Therapy (IMRT) treatment techniques. In 2007, he undertook the task as guest editor for the creation of four special volumes in Medical Dosimetry journal on image-guided radiation therapy (IGRT) on treatment planning, patient setup, focal irradiation, and clinical application. In 2018, he served as guest editor again focusing on gathering relevant information on planning tools in 3D treatment planning systems for the radiation oncology community to keep abreast on computer technology and accelerator technology advancements.

Dr. Saw has authored and coauthored over 80 articles, 20 book chapters, 5 news articles, and 120 abstracts. He also served as the Scientific Peer Review Panel member in various section of radiation oncology of the Department of Defense, USA from 2001-2010 and engaged in five Expert Missions of International Atomic Energy Agency (IAEA).

Dr. Saw has been actively engaged in international transfer of complex imaging and radiotherapy technology. He has been organizing workshops and symposia with the local organizers or institutions in the Asian-Pacific region since 2000. Among the countries that benefitted from his

missions are India, Indonesia, China, Malaysia, Singapore, SriLanka, Taiwan, Thailand, and Vietnam, He has made over 120 educational presentations in these countries. He also wrote the textbook “Foundation of Radiological Physics” and now on “Therapeutic Radiological Physics” textbook.