

COLLOQUIUM BY FANG-FANG YIN

MEDICAL PHYSICISTS IN ERA OF PRECISION RADIATION THERAPY

TIME: 5:00-6:00 PM, WEDNESDAY, 13SEPT 2017

VENUE: ACADEMIC BUILDING 1079

Medical Physicists in Era of Precision Radiation Therapy

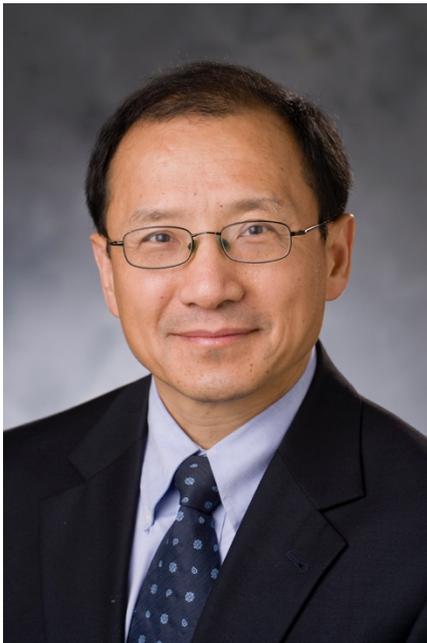
Speaker: Fang-Fang Yin, PhD

Professor and Chief of Radiation Physics in Radiation Oncology, Duke University Health System

Director of Radiation Oncology Physics Residency Program, Duke University Hospital

Professor and Director of Medical Physics Graduate Program, Duke Kunshan University

Associate Director of Medical Physics Graduate Program, Duke University



ABSTRACT:

Radiation therapy is one of critical cancer treatment methods and has applied for more than 60% cancer patients. The effectiveness of radiation therapy is highly dependent on its precision and accuracy, including precision in diagnosing the cancers and delineating treatment targets, in designing radiation treatment plans, in verifying treatment volumes prior and during the

radiation delivery and in assessing treatment responses, etc. This talk will discuss critical roles that medical physicists play in all aspects of radiation therapy and in developing new technologies and techniques to improve the accuracy and precision.

BIO:

Dr. Yin received BS from Zhejiang University and PhD in Medical Physics from the University of Chicago. His clinical and research expertise covers wide areas in radiation oncology, including oncological imaging and imaging analysis, image-guided radiation therapy, intensity-modulated radiation therapy, stereotactic radiosurgery and stereotactic body radiation therapy, big data analytics in radiation oncology, quality and safety optimization, treatment planning optimization, organ motion management and treatment assessment. He published over 260 referred papers and over 15 book chapters. His researches were and are funded by grants from NIH, DOD, non-government agents and industries. He was the inventor and co-inventor of 4 US patents.

He is a Fellow of American Association of Physicists in Medicine (AAPM), a Fellow of American Society of Radiology Oncology (ASTRO), an active member of International Society of Radiosurgery (ISRS) and Radiosurgery Society (RSS).

Dr. Yin is also one of the founders of North American Chinese Medical Physicist Association (NACMPA) and Sino-America Network for Radiation Oncology (SANTRO). He was the 2017 NACMPA Hall of Fame Recipient. During the past 20 years, he served as visiting professors for many universities and hospitals, co-organized many meetings, symposia, and workshops, and engaged many training and educational activities in China.

This event is open to all and entry is on a first come, first served basis. For any queries email yg73@duke.edu or call 3665 7149.

Hope to see you all!