

PROFESSOR XIE GEORGE XU AWARDED THE IUPESM AWARD OF MERIT, 2022



Prof. Xie George Xu is currently professor of Nuclear Science and Radiation Oncology, and director of Institute of Nuclear Medical Physics, the University of Science and Technology of China (Hefei, China). Before relocating to China recently, he spent 25 years at Rensselaer Polytechnic Institute (Troy, New York, USA) where his academic ranks included the Edward E. Hood Endowed Chair Professor of Engineering. He received a Ph. D. in Nuclear Engineering (health/medical physics focus) from Texas A&M University (College Station, Texas, USA) in 1994. Since 1995, Prof. Xu has mentored nearly 100 Ph.D and M.S. students in U.S. and China.

His research has dealt with “radiation dosimetry” for a wide range of challenges in radiation protection, medical imaging, and radiotherapy applications. His publication list includes 2 books, 220 peer-reviewed papers/chapters, 430 abstracts, and 150 invited talks. Widely known for his work on “computational phantoms” and “advanced Monte Carlo simulations”, Prof. Xu is a fellow of American Nuclear Society (ANS), Health Physics Society (HPS), American Association of Physicists in Medicine (AAPM) and American Institute for Medical and Biological Engineering (AIMBE), as well as a council member of the National Council on Radiation Protection and Measurement (NCRP) and a past president of the Council on Ionizing Radiation Measurements and Standards (CIRMS). For two decades, he served on the editorial board of Medical Physics and Physics in Medicine & Biology. Prof. Xu has received numerous awards including most notably NSF’s CAREER Award, CIRMS Randal S. Caswell Award for Distinguished Achievements (2015), HPS Distinguished Scientific Achievement Award (2018), ANS Arthur Holly Compton Award in Education (2020), ANS Rockwell Lifetime Achievement Award in Radiation Protection and Shielding

(2020), AAPM Edith H. Quimby Award for Lifetime Achievement in Medical Physics (2020), and the IUPESM Award of Merit in Medical Physics (2022). Prof. Xu is the co-founder and president of Virtual Phantoms Inc. (The VirtualDose software - a CT and IR patient dose reporting software) and Wisdom Tech, Inc. (The ARCHER software - a GPU-based Monte Carlo dose computing software for treatment planning and dose QA verification).

We in IOMP are delighted and honored to have George as the awardee of the 2022 IUPESM Award of Merit In Medical Physics.

Heartiest Congratulations on behalf of IOMP Executive Committee.

Madan M. Rehani, PhD
President, IOMP