

Michael McNitt-Gray, Ph.D., FAAPM, FACR



Michael McNitt-Gray is a Professor of Radiological Sciences at the David Geffen School of Medicine at UCLA. He also serves as the Director of the CAMPEP-accredited Physics and Biology in Medicine Graduate Program there, a position he has held since 2004. He was recently appointed the Assistant Vice Chancellor of Research, Radiation Safety as well. He received his BS in Electrical Engineering from Washington University in St. Louis in 1979 and his MS in Electrical Engineering from Carnegie-Mellon University in Pittsburgh PA in 1980 before working as an engineer for seven years; following that interval, he returned to graduate school to study medical physics and received his PhD in Biomedical Physics from UCLA in 1993.

His research has focused on investigations into imaging in the detection, diagnosis and staging of disease, primarily using X-ray Computed Tomography (CT). Specific research projects have focused on both radiation dose to patients and image quality in CT for the past 20 years including: (a) utilizing Monte Carlo simulation based methods to estimate patient dose from CT exams (including contributions to AAPM TG report 204 which described the Size Specific Dose Estimate or SSDE); (b) the use of imaging in clinical trials including the National Lung Screening Trial and (c) quantitative imaging efforts, including investigating the effects of radiation dose reduction methods in CT on quantitative imaging.

McNitt-Gray has served as the PI of an NIH (NIBIB) training grant (T32) since 2004 and has served on several other professional committees. These include serving on the American College of Radiology CT Accreditation Program physics subcommittee from its inception in 1998 until 2016 (serving as subcommittee chair from 2011-2016) ; the AAPM's CT Subcommittee (serving as its chair from 2011-2016) and the International Commission on Radiation Units and Protection (ICRU)'s Committee on Image Quality and Patient Dose in Computed Tomography from 2004 until that group produced its report (ICRU report 87) in 2012. McNitt-Gray is a Fellow of both the AAPM and the ACR.