

Jon EAKINS



Jon Eakins graduated in Physics from the University of Bristol (United Kingdom) in 1998. Following a brief period working in the opto-electronics industry, he then went on to complete a PhD in Mathematical Physics at the University of Nottingham (United Kingdom) in 2004. After his studies, Jon joined the UK's National Radiological Protection Board (NRPB) as a research scientist. In 2005 his employment transferred to the Health Protection Agency (HPA), in 2013 to Public Health England (PHE), and finally in 2021 to the UK Health Security Agency (UKHSA). Jon now runs a small team that performs research into external ionizing radiation dosimetry via measurement and

computation, within the Dosimetry Services Department of UKHSA's Radiation, Chemical, Climate and Environmental Hazards directorate (RCCEH). That research supports the wider interests of RCCEH, and especially its personal dosimetry service and emergency response capabilities, with the team also acting as the point of focus on external dosimetry expertise within UKHSA. In addition to the research team, Jon has also supervised former and current PhD students in collaboration with UK universities.

Jon's research focuses primarily on applying Monte Carlo modelling techniques to ionizing radiation exposure scenarios, and researching and developing physical dosimetry techniques and their applications to measure radiation exposures. He has published over 60 peer-reviewed papers, as well as numerous reports and memoranda, on topics including: passive dosimeter and active instrument design; field characterization; shielding applications; dose quantities; dosimetry of microparticles; and emergency and retrospective dosimetry.

Jon joined EURADOS Working Group 6 ("Computational Dosimetry") as a Corresponding Member in 2007, and became a Full Member in 2014. He has led sub-task 6.3 on "Individual Monitoring", as well as a joint sub-task with Working Group 10 ("Retrospective Dosimetry") titled "Computational Retrospective Dosimetry". Jon has coordinated a number of Monte Carlo training courses and intercomparison exercises, both within 6.3 and in collaboration with other sub-task groups. He has also played an active role in a range of other EURADOS activities, including a joint task group on the computational dosimetry of new medical radionuclides (with WG12), co-authorship of a cross-EURADOS report on the ICRU Report 95 dose quantities (led by WG2), and as the EURADOS representative on ICRU RC36.

Jon became Chair of EURADOS Working Group 6 in December 2024.