

Oliver HUPE



Oliver Hupe has a Diploma in nuclear solid-state physics at the Technische Universität Braunschweig (Germany) in 1997. Continuing his experimental studies on the magnetic properties of nanostructured materials, he received his PhD in 2002 from the TU Braunschweig with a thesis on this topic. Oliver joined the Physikalisch-Technische Bundesanstalt (PTB), the German National Metrology Institute, in 2003. After working two years in the field of brachytherapy, he changed to the field of radiation protection dosimetry. He extended his research on dosimetry in pulsed radiation fields, used at personnel X-ray scanners and in human and veterinary X-ray diagnostics and at electron accelerators. In 2009 he was appointed head of the working group *"Photon dosimetry"*.

His main task is the realisation and dissemination of the radiation protection quantities for photon radiation and the type testing of area and personal dosimeters and development of secondary standards and measuring instrumentation.

Oliver was member in IEC/TC45/SC45B WG8 and B9 and is convenor of ISO/TC85/SC2/WG2 *"Reference Radiation Fields"* since 2014. He was engaged in the development of the ISO/TS 18090-1 for pulsed photon radiation and ISO 4037 (all 4 parts) for photon reference fields.

He consults the German radiation protection commission (SSK) and the ministries. Oliver is active in several research projects related to the development of radiation detectors and is lecturer at radiation protection courses.

He is co-author of an initiative to establish a European metrology network for reliable radiation protection metrology to underpin the Council Directive 2013/59/EURATOM and the EURATOM treaty. In the EMPIR project 17RPT01DOSEtrace, Oliver is involved as work package leader to support other NMI/DIs in establishing new calibration and measurement capabilities (CMC).

Oliver joined EURADOS WG2 *"Harmonisation in Individual Monitoring"* in 2011 as lecturer for the Training Course and took lead of the organisation of the TC *"Radiation Protection Dosimetry and Accreditation of IMS: Secrets & Solutions (based on Radiation Protection 160)"* in 2015. He is also active in WG12 *"Dosimetry in medical imaging"*.

Since 2019, Oliver is member of the Council EURADOS and performs the function of treasurer additionally.