



Stefan Röttger received his Diploma in experimental physics from the Technical University Carolo-Wilhelmina zu Braunschweig in Germany in 1992 about the development of a large volume pulse ionization chamber for the measurement of low levels of radon activity concentration. This work was performed in parallel to the setup of the national German radon reference chamber.

His PhD Stefan received in 1997 at the Physikalisch-Technische Bundesanstalt

in Braunschweig (PTB) with the topic of prompt (n,γ)-spectrometry for the isotopical analysis of silicon crystals for the AVOGADRO project, which aims for the accurate determination of impurities and isotopical composition of crystals used for the redefinition of the kilogram unit and the creation of the new SI in 2019.

Following some post-doctoral positions at the Institute Max von Laue Paul Langevin (ILL), Grenoble, France and the Commissariat à l'énergie atomique et aux énergies alternatives (CEA), Paris, CEA-Saclay DSM/DAPNIA/SPhN Mini-INCA project about transmutation of nuclear waste, Stefan started at PTB in 2000 on a project on industry project about destruction free online elemental analysis.

From 2006 Stefan was working in the PTB group on neutron metrology at ion accelerator and reference fields and became for the responsible for the quasi monoenergetic neutron reference field and the high-energy neutron reference fields at iThemba Labs Cape Town, South Africa.

Since 2016 Stefan is leading the α - and γ -spectrometry of PTB which is also responsible for the primary standard for radon activity.

Stefan is actively involved in European metrology projects concerning radon (MetroRADON, traceRadon, RadonNET) and dosimetry (RemoteALPHA, ORION). He is member of PTBs innovation clusters environment & climate as well as digitalization.

He is active member of the International Committee for Radionuclide Metrology (ICRM) in α -, γ -spectrometry and low level radon nuclide metrology; scientific secretary of IMEKO TC19 environmental measurements and TC6 digital transformation; BIPM CCRI WG on digital transformation and EURAMETs European Metrology Networks Radiation Protection and Mathmet.

Since 2007 he is corresponding member of EURADOS WG6 computational dosimetry and WG11 high energy radiation fields and since 2016 WG3.

Since 2019 he is full member in WG3 actively contributing to all subtasks.

In May 2026 Stefan was elected chair of EURADOS WG3.