

## Bastian BREUSTEDT

Bastian Breustedt graduated in Physics at University of Cologne (Germany) in 2002. He has worked on the application of Monte-Carlo Techniques for in-vivo Monitoring and developed and applied simulation models of whole body counters. In 2005 he received his PhD from University of Cologne with a thesis on this topic. 2004 he finished a distance learning training on "Medical Physics and Engineering" at the Technical University Kaiserslautern (Germany).

In 2005 Dr. Breustedt joined the radiation protection research team at the former Research Centre Karlsruhe (FZK) now Karlsruhe Institute of Technology (KIT) for his Postdoctoral studies on "biokinetic modelling of decorporation therapy with DTPA". In 2011 he worked on this topic during a 6-month research sabbatical at the U.S. Transuranium & Uranium Registries (USTUR) in Richland, Washington State. He is author and co-author of several publications and conference presentations on Monte-Carlo simulations, biokinetic modelling and internal dosimetry.

He is lecturer in the training courses on radiological protection offered at the KIT training centre. Since 2010 he lectures at the university part of KIT. He supervised several bachelors, masters and PhD theses on radiation protection topics. 2012 he received his formal qualification for lecturing at a university (Habilitation).

Since 2008 Dr. Breustedt is approved as medical physics expert (field: nuclear medicine) according to German regulation. Since 2017 he is a member of the Committee on Radiological Protection Technology in the German Commission on Radiological Protection (SSK). He is a member of EURADOS WG7 on internal dosimetry since its formal approval in 2008. Together with members of the EURADOS working groups 6 and 7 he organized international training courses on the Application of Monte Carlo Methods for Dosimetry of Ionising Radiation. He is co-author of the "Technical recommendations for Monitoring Individuals for Occupational Intakes of Radionuclides", which were developed in 2014-2016 by members of WG7 for the EC.

Since 2013 Bastian Breustedt is head of the Radioanalytical Laboratories of the central department "Safety and Environment" (SUM) at Karlsruhe Institute of Technology (KIT). The laboratories are analysing radionuclides in different matrices (such as water, environmental samples or humans) and contain a chemical preparation lab, a spectrometry lab, as well as an in-vivo monitoring lab.