

CV:

Dr. Burkhard Beckhoff

Physikalisch-Technische Bundesanstalt

X-ray Spectrometry

Abbestr. 2-12, 10587 Berlin, Germany

born on 27.03.1965 in Cologne, Germany



- Study of physics at the German universities Bonn and Bremen and at the French university Toulouse III
- Diploma thesis on X-ray tube and Bragg reflector based creation of polarized excitation radiation in XRF analysis, Diploma in physics at the University of Bremen, Germany, 1990
- Ph.D. thesis in physics on X-ray focusing and monochromatizing by means of doubly curved HOPG crystals for both excitation and detection channels in X-ray tube based XRF analysis
- Ph.D. degree in physics at the University of Bremen, Germany, 1995
- Permanent contract at the Physikalisch-Technische Bundesanstalt (PTB) in Berlin, Germany, since 1997:
 - Responsibility as scientist for PTB's monochromator beamline for undulator radiation at the synchrotron radiation facility BESSY II
 - Methodological development of reference-free XRF analysis based upon metrology with synchrotron radiation and knowledge transfer to both the academic and industrial sectors within cooperation projects
 - Various basic research and industrial research projects aiming at the further improvement of X-ray spectrometry and its application to nanoelectronics, energy conversion and storage, bioanalytics and environmental sciences
 - Since 2004 head of PTB's X-ray spectrometry group
 - Since 2011 to 2016 head of PTB's X-ray and IR spectrometry group
 - More than 150 peer-reviewed publications in the field of XRF R&D
- Co-leader of the research seminar on modern analytical methods in physics at the Technical University Berlin since 2000
- Co-organizer of the workshop series and roadmap generation process of the 'International Initiative on X-Ray Fundamental Parameters' together with LNE-LNHB, NIST, NIMS, and UNL
- Co-organizer of the E-MRS 2014 & 2017 spring meeting symposia - Analytical Techniques for Precise Characterization of Nanomaterials (ALTECH), France, May 2014 and May 2017