Dr. Horst Herbert Gerke

Position: Head of WG Hydropedology



Academic education and scientific degrees

2016	Venia Legendi, Soil Science, Christian-Albrecht-University of Kiel, Germany
2004	Habilitation, Environmental Sciences, Brandenburg Technical University Cottbus
1981 – 1985	Forest Science, University Göttingen; 1987: Ph.D. in Forestry
1974 – 1980	Agricultural Sciences, University Göttingen; 1980: DiplIng. Agronomy

Professional experience

2018 – 2022	Scientist & Head of Working Group "Hydropedology", ZALF Müncheberg
1996 – 2017	Research Scientist, ZALF-Institute of Soil Landscape Research, Müncheberg
1993 – 1995	Research Scientist, ZALF-Institute of Forest Ecology, Eberswalde
1990 – 1992	Post-doctoral Researcher, US. Salinity Lab., USDA-ARS, Riverside, CA, U.S.A.
1986 – 1989	Post-doctoral Researcher, SFB 179 DFG, Technical University of Braunschweig
1986 – 1989	Research Assistent, Ph.D. student in Soil Physics, University of Göttingen
Research Profile	
Background	 Agriculture
	 Soil Science and soil physics
	 Forest hydrology
Research Activities	 Water flow and solute transport in structured soil
	 Preferential flow experiments and numerical modeling
	 Soil water balance quantification

Macropore-matrix mass exchange properties

Functions and memberships

2018 – 2020	Associate Editor Journal of Hydrology and Hydromechanics
2016 – 2022	Chair of Working Group 3-4D Soil Model of DBG
2016 – 2018	Co-Editor Journal of Hydrology and Hydromechanics, Bratislava
2015 – 2017	Vice chair and Chair EGU Soil Systems Science Subdivision: Soil Physics
Since 2013	Associate Editor Journal of Plant Nutrition and Soil Science
2012 – 2015	Vice-President German Soil Science Society (DBG)
2010	Guest Editior Vadose Zone Journal (VZJ)

2003 – 2009	Associate Editor Soil Science Society America Journal (SSSAJ)
2002 – 2005	Vice-Chair and Chair, Commission I (Soil Physics) of DBG
Since 1985,1987	Memberships DBG, ISSS, GfÖ, AGU, ASA; SSSA, EGU

Other

Award "Associate Editor of Excellence" SSSAJ (2010), VZJ (2017) Award "Editor's Citation for Excellence, Reviewer" VZJ (2021) Teaching University of Technology at Cottbus, Germany (2005-2016) Teaching Christian-Albrecht-University at Kiel (2016-2019) Vising Scientist Earth and Environmental Sciences Dept, University of Waterloo, Canada (1996) Supervision of postdocs, 15 PhD students: 13 Diplom-or Masterstudents, reviewer of external PhD. ORCID iD: 0000-0002-6232-7688 h-index: 34 (WOS), 142 paper, October 15, 2022