Dr. Ludwig Karbe

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University of Hamburg (retired)

Centre of Marine and Atmospheric Sciences (ZMAW)

Institute of Hydrobiology and Fisheries Science (IHF)

Former Working Groups Marine and Freshwater Eco-Toxicology & Molecular

Endocrinology

Curriculum Vitae

1952 - 1958	Student, University of Hamburg Basic studies in physics, chemistry and biology Graduate studies in Zoology, botany and fisheries biology Diploma (master) in biology
1959 – 1960	Scientific assistant, Zoological Institute and Museum, University of Hamburg, and PhD student of Prof. C. Kosswig Thesis: Speciation phenomena and sterility in Anatolian cyprinodontid fishes
1961 – 1962	Research fellow of Prof Kosswig, German Research Community (DFG) special program "New Systematics", guest scientist at the State Institute of Lake Research, Langenargen, Lake of Constance. Speciation and effects of eutrophication on intra-lacustrine speciation phenomena in lake herrings
1963 – 1968	Research fellow of Prof. Caspers, DFG special program "Water Research". Water quality criteria according to the Saprobic System and dynamics of energy turnover in freshwater systems. Change from the Zoological Institute to the Institute of Hydrobiology and Fishery Science, University of Hamburg
1972 ff	Senior scientist (Wissenschaftlicher Oberrat)
1972 - 1998	Lecturer (Dozent) in aquatic biology: limnology and oceanography, water management, biology of water supply and sewage treatment, aquatic chemistry, aquatic toxicology
1973 ff	Supervisor and examiner in Hydrobiology and fisheries science (Diploma and PhD),. 53 Diploma theses, 15 PhD theses. Head of the working group Aquatic Toxicology
1998 ff	Retired, active in environmental life-sciences and bio-climatology

Functions in freshwater and marine environmental research, in lifesciences and bio-climatology

1969 - 1975 DFG-Special Program "Pollution in Coastal Waters" and Special Program of the Federal Ministry of Research and Technology (BMFT) "Marine

	Pollution": Speaker of the toxicity projects
1974 - 1981	DFG-Special Program "Water Research-Bioaccumulation in Food Chains": Coordinator of the projects related to heavy metals.
1979	OECD - Chemicals Testing Program. Expert Group Bioaccumulation
1976 - 1981	Atlantis II Deep Metalliferous Sediments Development Program (MESEDA). Head of the environmental components of the MESEDA program conducted on behalf of the Saudi-Sudanese Red Sea Joint Commission and the German Federal Ministry of Research and Technology (risks of deep sea mining)
1984 ff	OECD Water Management Policy Group: German delegate group of experts in biological testing
1980 ff	Monitoring of contaminants along the German coast on behalf of the Environmental Agency of Lower Saxony
1984 - 1993	Interdisciplinary BMFT programs "Circulation and Turnover of Contaminants in the North Sea (ZISCH)" and "Processes of Sea to Atmosphere Cycling of Contaminants - Ecosystem German Bight (PRISMA)": Speaker of the biological subprojects and head of the benthos group
1986 - 1995	DFG-Special Program "Elbe Tidal Waters": Head of two projects, effects of humid compounds on the toxicity of heavy metals, and interrelationships between sediment re-suspension and microbial activities
1990	ICES-IOC Sea-Going Workshop on Biological Effects Techniques: Coordinator of the Water Quality Bioassay Group
1992 ff	German Institute for Standardization (DIN): Chairman of the Working group Bio-Testing with Marine Species
1992 - 1996	Projects under EU Marine Science and Technology and EU Environment: - "Sediment Toxicity Tests for Poorly Water-Soluble Substances" - "Validation of Sediment Toxicity Tests for Poorly Water-Soluble Substances"
1992 - 1996	DFG-Project: "Communities, adaptive responses of biota and toxic effects along the upper and intermediate Elbe river (BIOTOX Elbe)"
1995 ff	ICES Working Group on Biological Effects of Contaminants
1996 - 2000	German National Program "Environmental Hormones" (UBA): Head of the project "Eco-toxicological relevance of endocrine reactive compounds in the aquatic environment. Field studies along the Elbe river as a model system"
1997 - 2001	CEFIC-EMSG project: "Endocrine modulating effects in fish along the Elbe river and in reference areas. Assessment of risks related to the habitat conditions and the natural variability of endocrine functions."
1999	EU/EU Transatlantic Co-operation in Human and Environmental Health: Endocrine Disrupter Expert Panel Meeting on Opportunities for Collaborative EU/US Research: Chairman of the Effects in Wildlife Workgroup.
2003 - 2005	GKSS Research project: "Estrogenic acting compounds in coastal waters of the Baltic – Application of the MCF-7-ERE-Luc Bioassay"

Symposium "Warnsignal Klima: Folgen des Klimawandels- Gefahren für Menschen, Tiere und Pflanzen" (Effects of Climate Change – Impacts on Human Health, Animals and Plants) (Hamburg, February 2008), Member of the Preparatory Board and Co-Editor of the book prepared for this event

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