

Curriculum Vitae

NAME: Peter-Diedrich Hansen

UNIVERSITY: Studied Biology and Chemistry at the University of Tübingen and Hamburg from 1964 to 1971. Doctorate with a Major in Hydrobiology and Fishery Research and a Minor in Organic Chemistry on 2 April 1976.

DISSERTATION: "Experiments on the Accumulation of Lindane (γ - BHC) in a laboratory freshwater food chain made up of Chlorella spec. - Daphnia magna (STRAUS) and Gasterosteus aculeatus (LINNE)".

HABILITATION: Habilitated as a privatdocent at the Technische Universität Berlin (Berlin University of Technology) on 12 October 1988. Venia legendi in Limnology and Ecotoxicology.

PROFESSION: November 1980-October 1990 Employed as Departmental Director in the Institute for Water, Soil and Air Hygiene of the Federal Health Office.

April 1981-1990 Teaching at the Technische Universität Berlin on the subject of "Ecotoxicology and Landscape Ecology". July 1990 Appointment to a position as a University Professor for "Ecotoxicology" at the Technische Universität Berlin (Berlin University of Technology). 1990 – 2009 full Univ.-Prof. at the TU-Berlin, Faculty VI, Institut of Ecology , Head of the Chair (Fachgebiet) Ecotoxicology.

AREAS OF WORK:

Effects Monitoring (coastal areas and freshwater), Genotoxicity, Immunosuppression (Phagocytosis) and research under microgravity (ISS). Early warning systems, whole cell biosensors and bioanalytical methods. Methods of Data Evaluation and Rating (Eva.S: Evaluation Strategies and Data Processing of Indicator Values)

Research Work outside Germany:

01.05.-28.10.1986 Experimental Lake Area (ELA) Northern Ontario, D.Schindler / J. Klaverkamp, Freshwater Institute Winnipeg, Environment of Canada

12.06.-13.11.1987 Bedford Institute, Dartmouth, Dr. R. Addison, Env. of Canada

01.08.-23.11.1992 Bedford Institute, Dartmouth, Dr. R. Addison, Env. of Canada

1998 Lecturer in the summer school at Cranfield University: Advanced Study Course "Biosensors for Environmental Monitoring" 20-24 July 1998 (EC ref. no. PL977030)

01.04.-14.06.2006 / 01.08.-03.09.2007 Hong Kong University of Science and Technology, Biosensors (R. Renneberg)

Since 2009 Emeritus Status at the TU-Berlin still lecturing: as Senior Lecturer for Master-Studies (M.Sc.): Ecological Impact and Life Cycle Assessment, Ecotoxicology and in vitro non animal testing for environmental impact assessment and risk analysis. Directing at the TU-Berlin as a PI (Principal Investigator): BMWi/DLR/ESA Project "TRIPLE-LUX B" (2012-2015) "Immunological and cellular responses under microgravity and space radiation (ISS) – development of a biosensor with phagocytic cells". BMFT/DLR Project "Young Cities – Future Megacities": EVA^{blue} *professional Strategies* (Interdisciplinary Management Tool – project and programme development, assessment, steering mechanism and management of project processes)

Since 2009 International Consulting Ecotoxicology

Membership

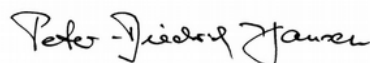
Member MAX-PLANCK-GESELLSCHAFT

Member Fachgruppe Wasserchemie (Wasserchemische Gesellschaft) der GDCh

Member Verein für Wasser-, Boden- und Lufthygiene e.V.

Member Fishery Advisory Board Berlin

Over 130 Publications



Berlin, 3rd of May 2018

Scientific activities at the European Commission DG XII D-1

1996- (2000) Member of the Science Panel on “Biosensors for Environmental Monitoring“, of the Commission of the European Communities (CEC), DG XII, Environmental Technologies.

1996- (2000) Member of the Science Panel on “Environmental Technologies“, of the Commission of the European Communities (CEC), DG XII, Environmental Technologies.

1997 Member of the Advisory group on Management and Quality of Water in relation to the 5th Framework Programme proposal, DG XII, European Commission.

1997 Member of the Scientific Panel of the Concerted Action on “Biosensors for Environmental Monitoring“- (EC ref no. PL 970792)

1997 Responsible organizer of the 1st European Technical Meeting “Biosensors for Environmental Monitoring“. Berlin, 16th - 19th of September 1997 - (EC ref. no. ENV4CT976154)

1998 Application for a sponsorship grant for the 2nd European Technical Meeting “Biosensors for Environmental Monitoring“. Berlin, 16th - 18th of September 1998

1998 Participation as lecturer in the summer school at Cranfield University: Advanced Study Course “Biosensors for Environmental Monitoring“ 20-24 July 1998 (EC ref. no. PL977030)

2000 List of Experts for Proposal Evaluation under the 5th Frame Work Programme
2004 List of Experts for Proposal Evaluation under the 6th Frame Work Programme

2014 Chairman of the Advisory Committee of the EU-Project “Sea-on-a-Chip (FP-OCEAN-2013/IP Project n° 614168)”

2015 Participation as lecturer in the summer school “Sea-on-a-Chip (FP-OCEAN-2013/IP Project n° 614168)” in Tarragona, Spain

2018 Member of the Scientific Advisory Committee, Institut Català de Recerca de l’Aigua ICRA / Catalan Institute for Water Research ICRA, Girona Spain

EU- Projects

Participant in a EU-Project under the STEP-Programme:

Development of On-Stream Biosensors for Pesticide Detection - EV5V-CT92-0104

Participant in EC-Projects under the Environment and Climate Programme:

METIER - An integrated approach to the development and validation of ecologically relevant toxicity tests for the impact of poorly water-soluble compounds on aquatic ecosystems - EV5V-CT94-0422

BIOMAR I+II - Biomarkers of Environmental Contamination in Marine Ecosystems- EV5V-CT94-0550

PRENDISENSOR - Prediction of the Behavior of Potential Endocrine Disruptors in Soil using Vitellogenin Elisa Assays as Biosensors - ENV4-CT97-0473

1998: two new EC-Proposals approved under the Environment and Climate Programme:

ALGAETOX - The application of integrated biosensors with antibody and macrocyclic receptor libraries in the measurement of algal cells and toxins in water. – ENV4-CT98-0784

As coordinator: SANDRINE - Biosensor tracing of endocrine disrupting compounds in surface water, waste water and sludge for water quality assessment.- ENV4-CT98-0801

1999: one new EC-Proposal approved under the 5th Frame Work Programme:

CITY FISH – Modelling the Ecological Quality of Urban Rivers: Ecotoxicological Factors Limiting Restoration of Fish Populations. - EVK1-CT1999-00009

2000: one new EC-Proposal approved under the 5th Frame Work Programme:

BEEP-Biological Effects of Environmental Pollution in Marine Coastal Ecosystems – EVK3-2000-00543

Research Collaboration Projects

Israel-Germany Collaboration:

BMBF-Verbundvorhaben (Projektträger BEO - Warnemünde):
MARS 1/1 (MARS = MARINE SCIENCE) - „The Use of Marine Fish and Bivalves for Biomarker Based Pollution Monitoring in Coastal Areas“. [German contribution to a **Israel-Germany collaboration** within the frame of a joint proposal "Novel Integrative Approach for Monitoring Bioperturbation in Marine Environments"]

Germany –Canada Science and Technology Agreement:

BMBF-Forschungsvorhaben im Rahmen „Wissenschaftlich-technologische Zusammenarbeit mit Kanada (Germany/Canada Science & Technology Agreement)“ - Sektor Environment, Projektträger DLR: „Ecosystem Health: Immunosuppression in bivalves“.

BMBF-Forschungsvorhaben im Rahmen „Wissenschaftlich-technologische Zusammenarbeit mit Kanada (Germany/Canada Science & Technology Agreement)“ - Sektor Environment, Projektträger DLR: „Ecosystem Health: Assessment of biomarkers and genotoxic effects in organisms, populations and sediments“.

BMBF-Forschungsvorhaben im Rahmen „Wissenschaftlich-technologische Zusammenarbeit mit Kanada (Germany/Canada Science & Technology Agreement)“ - Sektor Environment, Projektträger DLR: „Assessment of ecosystem health: development of tools and approaches determining the effects of endocrine disruptors on fish“.

Collaboration Agreement

- Technische Universität Berlin und Hong Kong University of Science & Technology (HKUST)

- WON-SHENG BIOLOGICAL ENGINEERING LTD. and Kwangju Institute of Science & Technology (K-JIST / ADEMRC - Advanced Environmental Monitoring Research Center)