

Hilmar Messal

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Graduation

1979 **First Diploma** (Hydrology) *Institute for Water Management Berlin & TU Dresden*
1981 **Diploma** (Hydrology), *Dresden University of Technology (TU Dresden)*
2000 **Dissertation** (Dr. rer. nat., Hydrology), *Technical University Berlin*

Professional Experience

Institute for Water Management (IfW) Berlin (Research Scientist, Collaborator)

1981 – 1990 **Surface Water Management:** theme leader (1984–87) “Operational river basin management – Spree / surface waters”
Hydrology: collaboration (1984–90) in two IHP-UNESCO working groups
Science Management: (1984–90) foreign connections Hungary, Soviet Union

Federal Health Office, Institute for Soil, Water and Air Sanitation (Scientific Employee)

1991 – 1992 **Proving Ground Marienfelde:** strategies of treated wastewater processing, measuring campaigns, data analysis and assessment of water samples (quality)

Technical University Berlin, Institute for Hydraulic Engineering and Water Management (Research Scientist, Collaborator)

1992 – 1997 **Hydrology:** founder and coordinator of the framework project “Water cycles and their interrelations with man” (1994–98)
Teaching: exercises and lectures “Flow Mechanics for Civil Engineers”
Science Management: (1993–99) co-organizer of the Berlin Colloquium “Modelling of flow and matter transport in the hydro- and geosphere”
(1995–99) Member of the Interdisciplinary Research Association on Water Research

Freelance occupations

1998 – 1999 **Hydrology:** computations on update strategies of real-time flooding models
Teaching: organization of the study course “Fluid Mechanics for Civil Engineers”, recognition of study achievements of foreign students at the TU Berlin

Research Centre Geesthacht GmbH (GKSS), Institute for Coastal Research (Research Scientist, Collaborator)

2000 – 2006 **Hydraulics:** BMBF Project “ODRAFLOOD”, Subproject “Modelling of the flooding of the lowland ‘Ziltendorfer Niederung’ in conjunction with embankment breaches”
Hydrology/Hydraulics: Computation of the water balance of the whole Odra river catchment area, long-term simulation of reservoirs of the Odra river basin
2002 – 2004 **Teaching:** teaching appointment at TU Berlin, subject area: hydro science / hydrology

Freelance occupations

2006 – 2008 **Hydraulics:** collaboration in the TERM project (“Sun tracking photo bioreactors”)
Acoustics: consultations on the installation of surround equipment

Leibniz Centre for Agricultural Landscape Research (ZALF) Müncheberg, Institute of Landscape Hydrology (Research Scientist, Collaborator)

2008 – 2010 **Hydraulics/Hydrology:** BMBF Project “MinHorLam” (flood risks and land use)

University Kiel, Institute for Natural Resource Conservation (Research Scientist, Collaborator)

2010 – **Hydrology and Water Management:** BMBF Project: “Sustainable Land Management in the Northern German Plain”
Teaching: “Fundamentals of Hydraulics — Principles of Hydraulics of Rivers and Lakes”, Master course

ASWEX (formerly IAMARIS e.V.) – Association of Senior Water Experts (Founding Member, Treasurer)

2009 –