

## CURRICULUM VITAE

**Karin Lochte**

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### Education and degrees:

1994	Habilitation in Marine Biology/Aquatic Microbiology at the University of Bremen, Germany, "Microbial degradation of organic matter in the benthic boundary layer of the deep sea"
1984	PhD in Marine Biology "Microbiological observations at sea water discontinuities"
1979	Master of Science in Marine Biology
1977 - 1984	Marine Science Laboratories Menai Bridge University College of North Wales, Bangor, UK Study of Marine Biology
1976	State Exam for High School Teacher in Biology, Chemistry
1971 - 1976	Technical University Hannover, Germany Study of Biology, Chemistry, Philosophy
1971	University-Entrance Diploma
1959 - 1971	School education in Hannover, Germany

### Professional experience:

2007 - 2017	Director of the Alfred Wegener Institute Helmholtz-Centre for Polar and Marine Research
2000 - 2007	Leibniz Institute for Marine Research (later GEOMAR), Kiel Head of research unit Biological Oceanography Professor at University of Kiel for Biological Oceanography Field of research: Carbon fixation, nitrogen fixation and microbial remineralisation processes in the water column
1995 - 2000	Institute for Baltic Sea Research Warnemünde, Rostock Head of department Biological Oceanography Professor at the University of Rostock for Biological Oceanography and Marine Microbiology Field of research: Pelagic bacterial processes, nitrogen fixation
1990 - 1994	Research scientist at the Alfred Wegener Institute, Bremerhaven Research: Microbial turnover of organic matter in sea ice, water and sediment.
1985 - 1990	PostDoc at the Leibniz Institute for Marine Research, University of Kiel Research: Microbial turnover of organic carbon in deep sea sediments

**Member of International Committees:**

1995 - 2001	Scientific Steering Committee of Joint Global Ocean Flux Studies (JGOFS)
1998 – 2004	Scientific Advisory Committee of the Royal Netherlands Institute for Sea Research (NIOZ), Texel
2001 - 2006	Scientific Committee of the International Geosphere-Biosphere Programme (IGBP), vice-chair
2006 - 2011	European Marine Board
2008 - 2017	European Polar Board (Executive Committee)
2008 - present	German Delegate of Scientific Committee on Antarctic Research (SCAR), since 2012 Vice-President
2010 - present	International Arctic Science Committee (IASC, Council Member)
2014 – 2017	European Climate Research Alliance (ECRA), chair
2017 –present	Scientific Advisory Board Institute of Marine Research, Norway
2018 – present	Scientific Advisory Board of the Swiss Polar Institute (co-chair)
2018 – present	Scientific Advisory Board of the Arctic Science Centre, Finland (chair)
2018 – present	Excellence, Impact and Engagement Committee of the Ocean Frontiers Institute, Halifax, Canada
2018 – present	National Environment Research Council (NERC), UK

**Member of major National Committees:**

1995 - 2011	Senate Commission of the German Research Council (DFG) for Oceanography, chair 2004 - 2011
2000 - 2005	National Committee for Global Change Research, co-chair
2002 - 2005	Scientific Advisory Committee of the Potsdam Institute for Climate Impact Research (PIK)
2004 - 2010	German Council of Science and Humanities (Wissenschaftsrat), chair of the Scientific Commission 2006 - 2008
2005 - 2010	Granting Commission of the German Excellence Initiative
2006 - 2013	Scientific Advisory Board, Max-Planck Institute for Marine Microbiology
2007 - present	Board of Governors, Jacobs University (JUB), chair 2008-2015
2009 - 2010	Vice president of the Helmholtz Association of German Research Centres, coordinator of the research field Earth and Environment
2010 - 2015	Scientific Commission of Lower Saxony (WKN), chair
2010 - present	Board of Trustees of the Federal Institute for Geosciences and Natural Resources (Bundesanstalt für Geowissenschaften und Rohstoffe BGR)
2010 - 2018	German Marine Research Consortium (Konsortium Deutsche Meeresforschung KDM), chair 2011-2015
2013 – present	Senate of Leibniz Association
2011 – present	General Assembly of the Institute for Advanced Sustainability Studies (IASS), chair since 2015
2017 – present	Advisory Board of Christian-Albrechts-University, Kiel (CAU)
2018 – present	Advisory Board Forschungsverbund Berlin
2018 – present	Advisory Board University Oldenburg
2018 – present	Advisory Board Technical University Dortmund

**Awards and Memberships of Academies:**

1977 - 1979	DAAD grant
1978 - 1981	Studentship of the University of Wales

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1981 - 1983	Studentship of the Studienstiftung des deutschen Volkes
1994	Award by Bertha Benz Lecture
2010	Deutsche Bank – IFM-GEOMAR Meeresforschungspreis 2010
2012	Honorary doctorate - Faculty of Mathematics and Science of University Oldenburg
2017	Federal Cross of Merit of the Federal Government of Germany
2005 - present	Academy of Sciences in Hamburg,
2010 - present	German Academy of Science and Engineering

### **Coordination of Large Projects (selection):**

BIO-OCEAN (Biological Oceanography – Development of an international study programme) 2003-2006

EUROCEANS (European Network of Excellence for Ocean Ecosystem Analysis) 2005-2009

EUROFLEETS (Alliance of European Research Fleets) 2009 – 2013

ROBEX (Robotic Exploration of Extreme Environments) 2012 - 2017

EU PolarNet (CSA for European Polar Science)

### **Publications:**

Peer reviewed publications: 56. Other publications: 20.

Subject Editor “Aquatic Microbial Ecology”, Guest Editor “Deep Sea Research”: 2 volumes.

### **Selected Publications:**

**Lochte, K.**, Gerdes, R., Hubberten, H.-W., Lemke, P. (2010) Changes of the Climate System in the Polar Regions. *Nova Acta Leopoldina NF*, 384, 131-144.

Hoffmann, L.J., Peeken, I., **Lochte, K.** (2007) Co-Limitation by iron, silicate, and light of three Southern Ocean diatom species. *Biogeosciences*, 4, 209-247.

**Lochte, K.** (2006) Carbon cycle research as a challenge of the Anthropocene. In: E.Ehlers, T. Krafft (eds) *Earth System Science in the Anthropocene*. Springer, Berlin – Heidelberg, pp. 187-202.

**Lochte, K.** (2002) The Deep Sea Floor – New Discoveries and Vision. In: *Marine Issues from a Scientific, Political and Legal Perspective*; Eds. Ehlers, P., Mann-Borgese, E., Wolfrum, R., Kluwer Law International, The Hague, London, New York, pp. 233-240.

Wasmund N., Voss M., **Lochte K.** (2001) Evidence of nitrogen fixation by non-heterocystous cyanobacteria in the Baltic Sea and re-calculation of a budget of nitrogen fixation. *Mar Ecol Prog Ser*, 214, 1-14.

**Lochte, K.** & Turley, C.M. (1988) Bacteria and cyanobacteria associated with phytodetritus in the deep-sea. *Nature*, 333, 67-69.