

## 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.