

Biographical Sketch
Rainer Lohmann, Ph.D.

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(a) Professional Preparation

Ruhr-Universität Bochum, Germany	Biochemistry	Vordiplom, 1993
EHICS, Strasbourg France	Chemical Engineering	Master (Diplom) 1996
Lancaster University	Environmental Science	Ph.D., 2000

(b) Appointments

2011 Humboldt Fellow, University of Tübingen (Germany)
2011 Visiting Associate Professor, IIT Madras, Chennai (India)
2010 Visiting Fellow, National Institute of Oceanography Goa (India)
2009 – present *Associate Professor*, Graduate School of Oceanography.
2004 – 2009 *Assistant Professor*, Graduate School of Oceanography.
01/04 – 11/04 *Fellow*, Research Center for Ocean Margins, University of Bremen (Ger.)
10/02 – 01/04 *Research Associate*, Lancaster University (UK)
06/03 – 11/03 *Fellow*, Max-Planck Institute of Meteorology, Hamburg (Germany)
03/00 – 08/02 *DAAD Fellow*, Massachusetts Institute of Technology, Cambridge

(c) Products

Five Products Most Closely Related to the Proposed Project

Benskin, J.P.; Muir, D.C.G.; Scott, B.F.; Spencer, C.; De Silva, A.O.; Kylin, H.; Martin, J.W.; Morris, A.; Lohmann, R.; Tomy, G.; Rosenberg, B.; Taniyasu, S.; Yamashita, N. Perfluorinated Compounds in the Arctic and Atlantic Oceans. *Environ Sci Technol* **2012**, 46, 5815-5823.
Benskin, J.P.; Ahrens, L.; Muir, D.C.G.; Scott, B.F.; Spencer, C.; Rosenberg, B.; Tomy, G.; Kylin, H.; Lohmann, R.; Martin, J.W. Sources of PFOA in Seawater, *Environ Sci Technol* **2012**, 46, 677-685.
Lohmann, R., Klanova, J., Kukucka, P., Yonis, S., Bollinger, K. PCBs and OCPs on a West-to-East transect: The importance of major currents and net volatilization for PCBs in the Atlantic Ocean. *Environ Sci Technol* **2012**, 46, 10471–10479. DOI: 10.1021/es203459e
Zhang, X.; Lohmann, R.; Dassuncao, C.; Hu, X.; Weber, A.; Vecitis, C.; Sunderland, E. Source attribution of poly- and perfluoroalkyl substances (PFASs) in surface waters from Rhode Island and the New York Metropolitan Area. *EST Letters* **2016**, 3, 316 – 321, DOI: 10.1021/acs.estlett.6b00255
Hu, X.; Andrews, D.; Lindstrom, A.; Bruton, T.; Schaidler, L.; Grandjean, P.; Lohmann, R.; Carignan, C.; Blum, A.; Balan, S.; Higgins, C.; Sunderland, E. Detection of poly- and perfluoroalkyl substances (PFASs) in U.S. drinking water linked to industrial sites, military fire training areas and wastewater treatment plants. *EST Letters* **2016**, 3, 344-350, DOI: 10.1021/acs.estlett.6b00260

Five Other Significant Publications

Adams, R.G.; Lohmann, R.; Fernandez, L.A.; MacFarlane, J.K.; Gschwend, P.M. Polyethylene Devices: Passive Samplers for measuring dissolved hydrophobic organic compounds in aquatic environments. *Environ Sci Technol* **2007**, 41, 1317-1323.
Morgan, E.; Lohmann, R. Detecting Air-Water and Surface-Deep Water Gradients of PCBs Using Polyethylene Passive Samplers. *Environ Sci Technol* **2008**, 42, 7248-7253.
Morgan, E. J. and Lohmann, R. Dietary Uptake of PCBs from Historically Contaminated Sediments as the Source of Bioaccumulation to Demersal Fish and Invertebrates in an Urban Estuary. *Environ Sci Technol*, **2010**, 44, 5444-5449.

Lohmann, R., Booi, K.; Smedes, F.; Vrana, B. Use of passive sampling devices for monitoring and compliance checking of POP concentrations in water. *Environ Sci Pollut Res* **2012**, 19, 6, 1885-1895.

Lohmann, R. A critical review of low-density polyethylene's partitioning and diffusion coefficients for trace organic contaminants and implications for its use as a passive sampler. *Environ Sci Technol* **2012**, 46, 606-618.

(d) Synergistic Activities

(i) *Mentor for Minority Students Pursuing Higher Degree (MS-PHD) at AGU'09 and Ocean Sciences'12*

(ii) *Convener with R. Burgess (U.S. EPA) of special symposium & issue in Environ. Toxicol. Chem. 2004: 'Role of black carbon on the partitioning and bioavailability of organic pollutants.'*

(iii) *Organisation of Special Conference Symposia, ACS's 230th Annual meeting with Profs. Ball and Fairbrother (JHU): 'Characterization and Properties of Environmentally Relevant Black Carbon Particulates' in Washington (DC), Aug., 2005; SETAC - 2005 with Dr. Dachs (CSIC, Barcelona, Spain): 'Marine Environmental Chemistry of Organic pollutants'.*

(iv) *NSF-ARMADA mentor for a science teacher: Gioya DeSouza-Fennelly - IS143- Roosevelt Middle School (New York, NY) An East-West Atlantic Transect of Black Carbon and POPs,*

(v) *Faculty mentor for undergraduate research projects: 11 Undergraduate research projects for credit within URI; 5 NSF-REU students from outside; 2 cruise participants.*

(e) Collaborators & Other Affiliations

(i) Collaborators and Co-editors

L Ahrens¹²; P Appleby²¹; C Balducci²⁶; K Barrett⁹; J Benskin⁴⁴; T Bidleman¹²; K Blaha²⁷; L Blaha²⁴; K Bollinger¹⁴; K Booi²; H Bouwman²⁸; K Breivik¹⁷; R Burgess³; M Cantwell³; A Caprio²⁰; J Dachs⁴; D DeMaster²³; M Diamond²⁵; R Dickhut¹⁵; A Di Guardo¹⁸; S Eckhardt²⁹; H Feichter⁷; H Fiedler³⁰; P Garriques³¹; R Gioia⁴; T Gouin¹⁷; P Grathwohl⁸; T Harner¹²; P Helm²²; P Herckes¹³; KU Hinrichs⁶; I Holoubek²⁴; GA Hodges¹⁷; H Hung¹²; A Jahnke¹¹; L Jantunen¹²; KC Jones¹; E Jurado⁷; H Kylin⁴⁵; J King¹⁴; J Klanova²⁴; G Lammel⁸; B Ligouis²²; M MacLeod³³; K Magulova³⁰; J Martin⁴⁴; S Mosca²⁶; L Nizzetto¹⁸; D Muir¹²; M Perron³; MJ Perry⁴⁷; N Pirrone²⁶; A Pistocchi³⁴; N Roche¹⁷; B Rosenberg⁴⁶; M Scheringer¹⁹; BF Scott¹²; N Selin⁴³; A de Silva¹²; S Simonich³⁵; F Smedes³⁶; C Spencer¹²; E Stephanou³⁷; E Sunderland⁴²; A Sweetman¹; K Sebkova²⁷; S Taniyasu⁴⁸; G Tomy⁴⁶; M Vernier³⁸; M Vighi³⁹; B Vrana²⁴; F Wania²⁵; R Weber⁴⁰; M Weinstein⁵; P Weiss⁴¹; N Yamashita⁴⁸; M Zabel⁶

¹Lancaster Univ. (UK); ²NIOZ (NL); ³US-EPA RI; ⁴CSIC (Spain); ⁵Montclair State ⁶Bremen Univ.

(GER); ⁷MPI Meteorol. (GER); ⁸U of Tuebingen (GER); ⁹Manhattan College; ¹¹GKSS (GER);

¹²Environment Canada (CA); ¹³Arizona State University; ¹⁴URI-GSO; ¹⁵VIMS; ¹⁷Unilever; ¹⁸University of Insubria (IT); ¹⁹ETH (CH); ²⁰NPS (CA); ²¹U of Liverpool (UK); ²²Ontario MOE (CA); ²³North Carolina State; ²⁴Recetox (CZ); ²⁵U of Toronto (CA); ²⁶CNR Rome (IT); ²⁷Czech MoE (CZ); ²⁸NW University (SA); ²⁹NILU (NO); ³⁰UNEP (CH); ³¹U of Bordeaux (FR); ³²CNR Rome (IT); ³³Stockholm University (SW); ³⁴GECO Cesena (IT); ³⁵OSU Corvallis; ³⁶Deltares (NL); ³⁷U of Crete (GR); ³⁸Indiana University; ³⁹U of Milano (IT); ⁴⁰POPs Env Consult. (GER); ⁴¹FEA Vienna (AU); ⁴²Harvard; ⁴³MIT; ⁴⁴U Alberta;

⁴⁵Lynkoeping U; ⁴⁶Arctic Aquatic Res Div (CA); ⁴⁷U Maine; ⁴⁸NIAIST Tsukuba (Jap);

(ii) Graduate and Post-Doctoral Advisors: Ph.D. Advisor: Kevin C. Jones, Lancaster University (UK); Post-doctoral Advisor: Philip M. Gschwend, MIT

(iii) Thesis Advisees: Graduated Eric Morgan (MS; now at Scripps), Pam Luey (MS; Narragansett Bay Commission), Matt Lambert (MS; EPA), Carey Friedman (PhD; Maine Maritime), Victoria Sacks (MS; Arcadis); Lin Zhang (PhD; Texas A&M); Shifra Yonis (MS; E2 ManageTech, Inc.); Erin Markham (MS; Leidos); Kari Pohl (PhD; Delaware Est. Res. Reserve); Caoxin Sun (MS; URI). Currently 3 PhD (Carrie McDonough, Anna Robock, Rachel Miller), 2 MS students (Erik Dixon-Anderson, Jennifer Cragan) at URI – GSO.

(iv) PostDoc Advisees: Dr. Mohammed Khairy, Fulbright Scholar (Alexandria University, Egypt) May 2011 – M2016; Dr. Rodrigo O. Meiras (Rio De Janeiro Federal University, Brazil), May – October 2012.