

CURRENT POSITION

Post-doctoral researcher

QUALIFICATIONS

- PhD (summa cum laude)
Environmental Chemistry
- Dipl. Ing (FH) Environmental
Engineering

AREAS OF EXPERTISE

- Environmental chemistry
- Analytical chemistry
- Method development and
validation
- Fate and behaviour of organic
contaminants in the aquatic
environment
- Environmental impact
assessment
- Spatial and temporal analysis
of organic contaminants
- Policy advise on offshore
chemicals

PUBLICATIONS

Strong peer review publication
record - h-index: 10, > 80% first
author

For details please see:

https://www.researchgate.net/profile/Roxana_Suehring

or

<https://scholar.google.co.uk/citations?user=qkgkBKwAAAAJ&hl=en>

PROFESSIONAL MEMBERSHIPS

- Society of Environmental
Toxicology and Chemistry
- Associate member Royal
Society of Chemistry

AWARDS

- Possehl Förderprämie 08/2012
- Bo Jansson and Ake Bergman
Award for Excellence in
Student Presentations
04/2015

Dr Roxana Samson (née Sührling)

I am a researcher and advisor on the fate and behaviour of contaminants in the marine environment and the impact of multiple stressors on contaminant-related environmental risk. Currently, I am working as a post-doctoral researcher on the development of laboratory and QSAR methods for the assessment of bioaccumulation potential of natural complex substances (NCSs) at the Department of Environmental Science and Analytical Chemistry (ACES) at Stockholm University.

My work experience includes leading the chemical assessment team at the Centre for Environment, Fisheries and Aquaculture Science (Cefas) who provide expert scientific advice on a variety of contaminant related issues to government departments in the UK as well as the Netherlands. Furthermore, I lead a work package in the NERC/BMBF project "EISPAC".

My research focus includes the development of novel analytical and model techniques to evaluate the fate and behaviour of emerging organic contaminants in the marine environment as well as their potential for long-range transport into the Arctic.

Until 2017, I have been the policy advisor to the Netherland's delegation for the OSPAR Offshore Industry Committee (OIC) and advisor for the UK Ministry of Defence regarding potentially polluting ship-wrecks. I have developed and lead proposals for research in the field of offshore chemical assessment as well as provided support and mentoring for the team and students to facilitate scientific publications and proposals. I have been a guest lecturer at the faculties of Environmental Sciences and International Development at the University of East Anglia and Queens University (Ontario, Canada).

RELEVANT EXPERIENCE

Fate and Behaviour of Environmental Contaminants

Analytical and statistical analysis of the distribution, source identification and fate of organic contaminants in the marine environment

Method Development and Analysis

Development and validation of sampling, extraction, clean-up and instrumental analytical methods for the detection of organic contaminants in water, air, sediments and biota samples using GC-MS, GC-MS/MS and LC-MS/MS. Non-target analysis with GCxGC-ToF MS and GC-FTICR MS.

Environmental Modelling

Use, evaluation and development of applications for the OECD Pov and LRT Screening Tool, ArcGIS, QGIS, DREAM, Delft3D, OceanDataView, as well as Junge-Pankow and Harner-Bidleman distribution models to investigate the distribution, environmental impact, persistence and long-range transport potential of organic contaminants

Policy Advise

Advisor to the Netherland's delegation for the OSPAR Offshore Industry Committee (OIC) regarding offshore chemicals and advisor for the UK Ministry of Defence regarding potentially polluting ship-wrecks

CAREER SUMMARY

<i>Date from</i>	<i>Date to</i>	<i>Employer</i>	<i>Title</i>
01/09/2018	currently	Stockholm University - ACES	Post-doctoral researcher
01/01/2018	31/08/2018	Maternity Leave	
15/02/2016	03/08/2018	Centre for Environment, Fisheries and Aquaculture Science	Team Leader, Marine Scientist
01/08/2015	31/01/2016	University of Toronto, Leuphana University Lüneburg	Post-doctoral Researcher
01/03/2012	30/04/2015	Helmholtz- Zentrum Geesthacht	Doctorate Candidate
01/09/2009	28/02/2010	Food Safety & Quality Center of the TÜV Rheinland (Shenzhen) Co. LTD. (China)	Analytical Chemist

ADDITIONAL TRAININGS AND QUALIFICATIONS

- 04/2018 - 06/2018 - Statistical analysis and models in R - Coursera
- 11/2017 - University of East Anglia (online) - Environmental Justice
- 04/2017 - Training course Delft3D Flexible Mesh – Hydrodynamic Modelling
- 04/2017 - Training course Delft3D Flexible Mesh – Environmental Modelling
- 03/2017 - R training course
- 11/2016 - Workshop on the use of Python in Environmental Sciences
- 04/2011 – 08/2013 - Organisation of ship-based sampling campaigns of sediment and water samples from river Elbe and the North Sea
- 09/2013 - Participation at the SETAC Summer School “GIS-based modelling of chemical fate, transport and impacts for policy support”
- 06/2013 - Trainings for method development and use of Agilent Technologies QQQ-GC/MSMS and QQQ-LC/MSMS instruments and software
- 02/2013 - Workshop on “Optimizing Writing Strategies for Publishing Research Results in English

Roxana Samson

PUBLICATIONS

- Sühling R**, Markus, A, Phillips, C (2018), Thermal pollution from offshore oil and gas activities. *ICES Journal of Marine Science* (under review)
- Sühling R**, Phillips, C, Gioia, R, Rowles, R, Abdoellakhan, I (2017), Perfluorinated compounds in offshore fire-fighting foams – a source for marine contamination? *Organohalogen Compounds* 79: 667-669.
- Wolschke H, **Sühling R**, Massei R, Tang J, Ebinghaus R (2018), Regional variations of organophosphorus flame retardants - Fingerprint of large river basin estuaries/deltas in Europe compared with China, *Environmental Pollution* 236: 391-395.
- Lonsdale J, Nicholson R, Weston K, Elliott M, Birchenough A, **Sühling R** (2018), A user's guide to coping with estuarine management bureaucracy: An Estuarine Planning Support System (EPSS) tool. *Marine Pollution Bulletin* 127: 463-477.
- Sühling R** (2017). Dechlorane Plus and related compounds, in *ICES Special Request Advice sr.2017.21*. OSPAR request on information for use in selecting and deselecting hazardous substances of concern, pp 14-19. DOI: 10.17895/ices.pub.3693.
- Sühling R**, Smith A, Emerson H, Doran D, Mellor P, Kirby M, Christie B (2017), Qualification of Oil-spill Treatment Products – adopting the Baffled Flask Test for testing of dispersant efficacy in the UK, *Marine Pollution Bulletin*, in press, DOI: 10.1016/j.marpolbul.2017.10.038.
- Sühling R**, Smith A, Emerson H (2017), Qualification of Oil-spill Treatment Products – Protocol for efficacy testing”. Available at <https://www.gov.uk/government/publications/get-an-oil-spill-treatment-product-approved-tests>.
- Freese M, **Sühling R**, Marohn L, Pohlmann J, Wolschke H, Byer J, Alae M, Ebinghaus R, Hanel R (2017), Maternal transfer of dioxin-like compounds in artificially matured European eels, *Environmental Pollution* 227: 348–356.
- Sühling R**, Ortiz X, Pena-Abaurrea M, Jobst K J, Freese M, Pohlmann J D, Marohn L, Ebinghaus R, Backus S, Hanel R, Reiner E J (2016). Evidence for High Concentrations and Maternal Transfer of Substituted Diphenylamines in European Eels Analyzed by GCxGC-ToF- MS and GC-FTICR-MS. *Environmental Science and Technology* 50: 12678–12685.
- Sühling R**, Diamond M L, Scheringer M, Wong F, Pucko M, Stern G, Burt A, Hung H, Fellin P, Li H, Jantunen L M (2016). Organophosphate Esters in Canadian Arctic Air: Occurrence, Levels and Trends. *Environmental Science and Technology* 50: 7409-7415.
- Sühling R**, Wolschke H, Diamond M L, Jantunen L M, Scheringer M (2016). Distribution of Organophosphate Esters between the Gas and Particle Phase–Model Predictions vs Measured Data. *Environmental Science and Technology* 50: 6644–6651.
- Zhang X & **Sühling R**, Serodio D, Bonnell M, Sundin N, Diamond M L (2016), Novel Flame Retardants: Estimating the Physical-Chemical Properties and Environmental Fate of 94 Halogenated and Organophosphate PBDE Replacements, *Chemosphere* 144: 2401-2407.

- Wolschke H, **Sühling R**, Mi W, Möller A, Xie Z, Ebinghaus R (2016), Atmospheric occurrence and fate of organophosphorus flame retardants and plasticizer at the German coast, *Atmospheric Environment* 137: 1-5.
- Sühling R**, Busch F, Fricke N, Kötke D, Wolschke H, Ebinghaus R (2016). Distribution of Brominated Flame Retardants and Dechloranes between sediments and benthic fish - A comparison of a freshwater and marine habitat. *Science of the Total Environment* 542: 578–585.
- Freese M, **Sühling R**, Pohlmann J, Wolschke H, Ebinghaus R, Hanel R (2015). A Question of origin - Dioxin-like PCBs and their relevance in habitat quality for European eels. *Ecotoxicology* 25(1): 1-15.
- Sühling R**, Barber J L, Wolschke H, Kötke D, Ebinghaus R (2015). Fingerprint analysis of brominated flame retardants and Dechloranes in North Sea sediments. *Environmental Research* 140: 569-578.
- Sühling R**, Freese M, Schneider M, Schubert S, Pohlmann J, Alae M, Wolschke H, Hanel R, Ebinghaus R, Marohn L (2015). Maternal transfer of emerging brominated and chlorinated flame retardants in European eels. *Science of the Total Environment* 530-31: 209-218.
- Sühling R**, Freese M, Pohlmann J, Alae M, Wolschke H, Hanel R, Ebinghaus R, Marohn L (2014), Maternal transfer of emerging brominated and chlorinated flame retardants in European eels”, *Organohalogen Compounds* 76: 250-253.
- Sühling R**, Wolschke H, Kötke D, Ebinghaus R (2014), Distribution and input of brominated flame retardants and Dechloranes in the German Bight, *Organohalogen Compounds* 76: 214-217.
- Sühling R**, Byer J, Freese M, Pohlmann J, Wolschke H, Möller A, Hodson P V, Alae M, Hanel R, Ebinghaus R (2014), Brominated flame retardants and Dechloranes in European and American eels from glass to silver life stages, *Chemosphere* 116: 104-111.
- Sühling R**, Möller A, Freese M, Pohlmann J, Wolschke H, Sturm R, Xie Z, Hanel R, Ebinghaus R (2013), Brominated Flame Retardants and Dechloranes in Eels from German Rivers, *Chemosphere* 90: 118-124.
- Sühling R**, Möller A, Freese M, Pohlmann J, Wolschke H, Sturm R, Xie Z, Hanel R, Ebinghaus R (2012), Contamination of the European eel (*Anguilla anguilla*) with brominated flame retardants and dechloranes throughout its life cycle, *Organohalogen Compounds* 74: 540-543.