

Curriculum Vitae

Personal information

Name: Dr. Elke Fries

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Nationality: German

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Sex, date and place of birth: female, 13.10.1971, Aschaffenburg (Germany)

Research experience

- 2007-present **Assistant professor** for Applied Environmental Systems Analysis and **Head of the laboratory for Environmental Analytics and Chemistry** at the Institute of Environmental Systems Research, University of Osnabrueck (Germany)
- 2004 –2007 **Principle investigator** of a project within the collaborate centre 641 TROPICE of the German Research Foundation (DFG) “The tropospheric ice phase”, Institute of Atmosphere and Environment (former Centre for Environmental Research), Johann Wolfgang Goethe University of Frankfurt (Germany)
- 2002-2004 **Post Doc** at the Centre for Environmental Research, Johann Wolfgang Goethe University of Frankfurt (Germany)
- 1999-2002 **PhD-student** at the Institute for Mineralogy, Johann Wolfgang Goethe University of Frankfurt (Germany)

Academic education

- 03.11.2008 **Diploma** in Business Administration and Economics for Natural Scientists, University of Hagen (Germany)
Thesis: “Green zone-dependent taxation of vehicles to reduce the problem of NO₂ in cities”
- 29.07. 2002 **PhD** (magna cum laude)
Thesis: "Sources, transport and fate of organic contaminants in the anaerobic aquifer of the Oderbruch, Germany"
- 20.11.1998 **Diploma** in Geology, Julius-Maximilians University of Wuerzburg (Germany) with a focus on hydrochemistry and geochemistry
Thesis: “Hydrogeological and hydrochemical studies in the catchment of the River Schwarzach”

Special skills

Analytical Chemistry: Sampling strategies (passive and active air sampling, precipitation, groundwater, soil, waste water, river water, sediments), on-line measurements of organic trace contaminants in air, river flow measurements, measurements of inorganic and organic chemicals: gas chromatography-mass spectrometry (GC-MS), online-GC, Liquid Chromatography (LC), Thermal Desorption System for air analysis (TDS), Purge and Trap (P&T), Soxhlet Extraction, Solid Phase Extraction (SPE), Solid Phase Microextraction (SPME), Stir bar sorption extraction (SBSE), Ion Chromatography (IC), Photometry, Atomic Absorption Spectroscopy (AAS), TOC, BOD, COD, titration, activated charcoal adsorption, Software: Chemstation, Xcalibur, Masslab

Data analyses Multivariate Statistical Analysis in Chemometrics (SPSS, Excel, Origin)

Modeling: GREAT-ER (a GIS assisted model for environmental risk assessment and management of chemicals in river basins), Visual Modflow, PowerSIM

Geographical information Systems: Arc-view, Arc-Info

Language skills: German: mother tongue, English: thorough knowledge (level C1), French: basic knowledge (level A2)