

Curriculum vitae

Dr. Andreas C. SCHEINOST

Born on 30 November 1957 in Karlsruhe, Germany

German citizen

Languages: German, English, French

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Rosendorf Beamline at ESRF

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Education

HDR in Earth Sciences/Environmental Mineralogy, Université Joseph Fourier, Grenoble, France, 2005

PhD in Agronomy (Dr. agr.), *summa cum laude*, Technische Universität München, Germany, 1994

Diploma in Agricultural Engineering (Dipl. Ing. agr.), Technische Universität München, Germany, 1989

Professional Experience

1/2004 – now Head of Molecular Structures Division, Institute of Radiochemistry, Helmholtz-Zentrum Dresden Rossendorf (HZDR), Dresden, Germany

4/2004 – now Head of the Rossendorf Beamline at ESRF

1/2003 – 12/2003 Head of Synchrotron Application Division, HZDR

1/2000 – 12/2002 Assistant Professor, Institute of Terrestrial Ecology, ETH Zurich, Switzerland

8/1997 – 12/1999 Postdoctoral Research and Teaching Associate, Department of Plant & Soil Sciences, University of Delaware, U.S.A.

4/1996 – 7/1997 Postdoctoral Research Associate, Agronomy Department, Purdue University, U.S.A.

3/1990 – 3/1996 Research and Teaching Associate, Institute of Soil Science, TU München

4/1989 – 3/1990 Research Associate, Institute of Environmental Chemistry, TU München

Major Research Areas

Environmental chemistry and mineralogy, in particular

- Geostatistics and regionalization of chemical and physical soil properties
- Iron, manganese and nickel (hydr)oxide mineralogy
- Chemistry of heavy metals and radionuclides in soils
- Mineral-water interface redox reactions of metals/metalloids/actinides
- Development of spectroscopic tools (DRS, EXAFS)

Professional Activities

Review Committee of Canadian Light Source
Editorial Board of "Annals of Environmental Science"
International Scientific Advisory Committee of "Actinide-XAS"
Member of ACTINET task group (European Network of Excellence) 2004-present

Ph.D. Students Advised or Co-advised

1. Sabina Pfister /ETH Zurich
Long-term changes of Zn speciation, mobility and bioavailability in circum-neutral soil
2. Marc Schumacher / ETH Zurich 2004
Micro-scale heterogeneity of organo-mineral soil colloids studied by x-ray microscopy and micro-spectroscopy
3. Irene Xifra / ETH Zurich 2004
Spatial distribution and chemical speciation of Pb in contaminated soil and its relation to micromorphology and water flow
4. Elke Suess / Univ. Bayreuth 2011
Investigations towards a better understanding of arsenic-sulfur speciation in aquatic environments: Formation, stability, structural characterization, and conflicting analyses
5. Regina Kirsch / HZDR and UJF Grenoble 2012
Réactions redox du plutonium et de l'antimoine avec des minéraux de fers en milieux anoxique
6. Laure Aimoz / PSI and Univ. of Bern
Structure of iodine in layered double hydroxides and cement phases
7. Siriwan Dulnee / HZDR
Sorption and redox reactions of Sn^{II} and Sn^{IV} at the magnetite/water interface in presence and absence of organic ligands