

Curriculum Vitae

(August 2017)

Jan G. Wiederhold

born September 6, 1975 in Kronberg (Germany), German citizen, married
current address: University of Vienna, Althanstr. 14, UZA 2, 2B146,
1090 Vienna, Austria, +43-1-4277-53412, jan.wiederhold@univie.ac.at

Education:

- 2015 **Habilitation** (*venia legendi* in Environmental Geochemistry), ETH Zurich, Switzerland (Thesis: Metal stable isotope signatures as tracers in environmental geochemistry)
- 2006 **PhD (Soil Chemistry / Isotope Geochemistry)**, ETH Zurich, Switzerland (Thesis: Iron isotope fractionation in soils – from phenomena to process identification, advisors: Ruben Kretzschmar, Stephan Kraemer, Nadya Teutsch, Alex Halliday)
- 2002 **Diplom in Geoecology**, University Karlsruhe (TH), Germany (Thesis: Fraktionierung von Eisen-Isotopen in einer Stagnogley-Ockererde-Catena auf Buntsandstein, advisors: Friedhelm von Blanckenburg, Thomas Neumann, Doris Stüben)
- 2000 **Master of Science**, Oregon State University, Corvallis, USA (Major: Soil Science, Minor: Environmental Engineering)
- 1998 **Vordiplom in Geoecology**, University Karlsruhe (TH), Germany

Employment:

- 06/15-05/21 **University assistant**, University of Vienna, Austria
Department of Environmental Geosciences, Environmental Geochemistry group
- 08/08-02/15 **Oberassistent** (Senior research associate), ETH Zurich, Switzerland
Joint position at Institute of Biogeochemistry and Pollutant Dynamics (Soil Chemistry Group) and Institute of Geochemistry and Petrology (Isotope Geochemistry Group)
- 11/06-07/08 **Postdoctoral research associate**, ETH Zurich, Switzerland
(Research groups of Ruben Kretzschmar and Bernard Bourdon)
- 2003-2006 **Teaching assistant** for Soil Science, ETH Zurich (field trips, examinations)
- 09/00-07/01 **Research assistant**, Fraunhofer Institute for Systems and Innovations Research (ISI), Karlsruhe, Germany (Department of Environmental Engineering and Economics)
- 10/98-02/99 **Teaching assistant**, Institute for Geography and Geoecology, University Karlsruhe
- 08/97-09/97 **Internship**, LUFA Augustenberg, Karlsruhe (State agricultural research institute)
- 08/94-10/95 **Civil service** (Naturschutzbund, Mainz, Germany)

Research interests:

- Development and application of metal stable isotope signatures as novel tracers in environmental geochemistry and soil science
- Biogeochemistry of pollutant and nutrient elements (Hg, Fe, and others) in terrestrial and aquatic ecosystems
- Processes and mechanisms of chemical weathering, mineral dissolution, and pedogenesis
- Application of stable isotope tracer methods to investigate adsorption and desorption reactions, mobility, and bioavailability of heavy metals in laboratory and field studies
- Experimental and theoretical investigation of mass-dependent and mass-independent stable isotope fractionation of metal and metalloid elements
- Analytical development of novel stable isotope methods with MC-ICP-MS

Teaching:

since 06/15 **Dozent at the Department of Environmental Geosciences, University of Vienna**

- Environmental Geochemistry of Stable Isotopes (English, Master course)
- Biogeochemical Lab and Field Course (English, Master course)
- Heavy metal stress: Ecology of organisms (German, Bachelor course, with other lecturers)
- Environmental Chemistry and Biogeochemistry (English, Master course, with other lectures)
- Introduction to Environmental Sciences (English, Master course, with other lectures)
- Member of study conference and selection committee of MSc students "Environmental Sciences"

since 02/15 **Privatdozent at the Department of Environmental Systems Science, ETH Zurich**

- Stable Isotopes in Environmental Geochemistry (English, block course, Master and PhD level)

04/09-02/15 **Dozent at the Department of Environmental Systems Science, ETH Zurich**

- Pedosphäre ("Introduction to soil science") (German, Bachelor course, with R. Kretzschmar)
- Biogeochemistry of Trace Elements (English, Master course, with other lecturers)
- Integriertes Praktikum Boden ("field course soil science") and other lab and field courses

other courses:

- "Heavy stable isotope geochemistry – terrestrial, cosmochemical and environmental applications" short course 2011 (CUSO doctoral schools, Geneva) (with other lecturers)
- FIMIN Workshop "Fe isotopes" 2013 (ESF research network, Israel) (with other lecturers)

Awards:

2007 ETH medal for outstanding PhD thesis (ETH Zurich)
2004 3rd poster price, PhD student conference (ZOeK, ETH Zurich)
2003 Winner abstract competition, PhD student conference (ZOeK, ETH Zurich)
1999/2000 Scholarship of the German-American Fulbright commission

Professional affiliations:

- European Association of Geochemistry (EAG)
- Geochemical Society (GS)
- Deutsche Bodenkundliche Gesellschaft (DBG)
- Verband für Geoökologie in Deutschland (VGöD)

Conference organization:

- Session convenor for "Goldschmidt conference", Paris, France, July 2017
- Theme chair "Environmental Geochemistry" and session convenor for the "Goldschmidt conference", Sacramento, USA, June 2014
- Lead organizer of the international "EnvironMetal Isotopes" (EMI2013) conference, Ascona, Switzerland, August 2013

Editorial service:

- Associate Editor for *Geochimica et Cosmochimica Acta* (since 05/2012)

Reviewer for journals:

- Environmental Science and Technology
- Geochimica et Cosmochimica Acta
- Chemical Geology
- Science
- Proceedings of the National Academy of Science
- Nature Nanotechnology
- Nature Communications
- Geology
- Analytical Chemistry
- Global Biogeochemical Cycles
- Earth and Planetary Science Letters
- Biogeochemistry
- Plant and Soil
- Geoderma
- Soil Science Society of America Journal
- Chemosphere
- Applied Geochemistry
- Atmospheric Chemistry and Physics
- Science of the Total Environment
- Environmental Pollution
- Ore Geology Reviews
- Environmental Science and Technology Letters
- Environmental Toxicology and Chemistry
- Journal of Contaminant Hydrology
- Trends in Environmental Analytical Chemistry
- Scientific Reports
- ACS Earth and Space Chemistry

Reviewer for research proposals:

- Deutsche Forschungsgemeinschaft (DFG)
- US National Science Foundation (NSF)
- US Department of Energy (DOE)
- Agence Nationale de la Recherche (ANR)
- Czech Science Foundation (GA CR)

Funded proposals:

- Monte Verita conference "Stable Metal Isotope Fractionation – Processes and Applications in Environmental Geochemistry" (**Wiederhold JG**, Vance D, Wilcke W, Kretzschmar R) (46,000 CHF from different sources, 08/13)
- Identification of hot spots for methyl mercury production after forest clear-cut – a multidisciplinary approach providing a scientific basis for practical guidelines (Skjllberg U, Kretzschmar R, Bourdon B, **Wiederhold JG**, et al.) (32,000 CHF, only Swiss part of proposal, 09/10 - 09/13)
- Stable mercury isotopes as novel tracers for biogeochemical Hg cycling in soil environments (Kretzschmar R, Bourdon B, **Wiederhold JG**) (358,500 CHF, 05/10 - 04/13)
- Biosphere-Geosphere interactions: Linking climate change, weathering, soil formation and ecosystem evolution. Subproject 4: Isotope tracers for chemical weathering (BigLink) (Bourdon B, Kretzschmar R, Reynolds B, **Wiederhold JG**, Ivy-Ochs S) (165,000 CHF, 05/07 - 04/11)
- Ca isotopes during incipient weathering in a granitic soil chronosequence (Bourdon B, Kretzschmar R, Reynolds B, **Wiederhold JG**) (161,000 CHF, 09/07 - 08/10)
- Iron isotope fractionation by biotic and abiotic weathering and soil forming processes on silicate rock (Kretzschmar R, Bourdon B, **Wiederhold JG**, Kraemer SM) (179,800 CHF, 01/06 - 01/09)

Publication list Jan G. Wiederhold (August 2017)

ISI-Web of Science / [Google Scholar](#): h-index = 17 / 18, citations = 933 / 1137

ORCID: [0000-0003-3355-0220](#), ResearcherID: [O-8967-2014](#), Scopus Author ID: [14016979600](#)

Peer-reviewed publications: (* corresponding author)

- Jiskra M*, **Wiederhold JG***, Kronberg R-M, Skyllberg U, Kretzschmar R (2017) Source tracing of natural organic matter bound mercury in boreal forest runoff with mercury stable isotopes. *Environ. Sci.: Processes Impacts* (doi: [10.1039/C7EM00245A](#))
- Kronberg RM, Schaefer JK, Jiskra M, **Wiederhold JG**, Björn E, Skyllberg U (2016) Methyl mercury formation in hillslope soils of Boreal forests – the role of forest harvest and anaerobic microbes. *Environ. Sci. Technol.* 50: 9177–9186. (doi: [10.1021/acs.est.6b00762](#))
- Kronberg RM, Drott A, Jiskra M, **Wiederhold JG**, Björn E, Skyllberg U (2016) Forest harvest contribution to Boreal freshwater methyl mercury load. *Glob. Biogeochem. Cycles* 30: 825–843. (doi: [10.1002/2015GB005316](#))
- Jiskra M*, **Wiederhold JG***, Kronberg R-M, Skyllberg U, Hajdas I, Kretzschmar R (2015) Mercury deposition and re-emission pathways in boreal forest soils investigated with Hg isotope signatures. *Environ. Sci. Technol.* 49: 7188–7196. (doi: [10.1021/acs.est.5b00742](#)) **Open Access Article, ISI Highly Cited Paper** [§]
- Smith RS, **Wiederhold JG***, Kretzschmar R (2015) Mercury isotope fractionation during precipitation of metacinnabar (β -HgS) and montroydite (HgO). *Environ. Sci. Technol.* 49: 4325–4334. (doi: [10.1021/acs.est.5b00409](#))
- Wiederhold JG*** (2015) Metal stable isotope signatures as tracers in environmental geochemistry - Critical Review. *Environ. Sci. Technol.* 49: 2606–2624. (doi: [10.1021/es504683e](#)) **Open Access Article Top 10 of journal's most downloaded articles in March/April 2015. ISI Highly Cited Paper** [§]
- Smith RS, **Wiederhold JG***, Jew AD, Brown, Jr. GE, Bourdon B, Kretzschmar R (2015) Stable Hg isotope signatures in creek sediments impacted by a former Hg mine. *Environ. Sci. Technol.* 49: 767–776. (doi: [10.1021/es503442p](#))
- Wiederhold JG***, Skyllberg U, Drott A, Jiskra M, Jonsson S, Björn E, Bourdon B, Kretzschmar R (2015) Mercury isotope signatures in contaminated sediments as tracer for local industrial pollution sources. *Environ. Sci. Technol.* 49: 177–185. (doi: [10.1021/es5044358](#))
- Jiskra M, Saile D, **Wiederhold JG***, Bourdon B, Björn E, Kretzschmar R (2014) Kinetics of Hg(II) exchange between organic ligands, goethite, and natural organic matter studied with an enriched stable isotope approach. *Environ. Sci. Technol.* 48: 13207–13217. (doi: [10.1021/es503483m](#))
- Smith RS, **Wiederhold JG***, Jew AD, Brown, Jr., GE, Bourdon B, Kretzschmar R (2014) Small-scale studies of roasted ore waste reveal extreme ranges of stable mercury isotope signatures. *Geochim. Cosmochim. Acta* 137: 1–17. (doi: [10.1016/j.gca.2014.03.037](#))
- Wiederhold JG***, Smith RS, Siebner H, Jew AD, Brown, Jr. GE, Bourdon B, Kretzschmar R (2013) Mercury isotope signatures as tracers for Hg cycling at the New Idria Hg mine. *Environ. Sci. Technol.* 47: 6137–6145. (doi: [10.1021/es305245z](#))
- Hindshaw RS, Reynolds BC, **Wiederhold JG**, Kiczka M, Kretzschmar R, Bourdon B (2013) Calcium isotope fractionation in alpine plants. *Biogeochem.* 112: 373–388. (doi: [10.1007/s10533-012-9732-1](#))

[§] *ISI Highly Cited Paper (Web of Science):*

“As of March/April 2017, this highly cited paper received enough citations to place it in the top 1% of its academic field based on a highly cited threshold for the field and publication year.”

- Jiskra M, **Wiederhold JG***, Bourdon B, Kretzschmar R (2012) Solution speciation controls mercury isotope fractionation of Hg(II) sorption to goethite. *Environ. Sci. Technol.* 46: 6654–6662. (doi: [10.1021/es3008112](https://doi.org/10.1021/es3008112))
- Kiczka M, **Wiederhold JG***, Frommer J, Voegelin A, Kraemer SM, Bourdon B, Kretzschmar R (2011) Iron speciation and isotope fractionation during silicate weathering and soil formation in an alpine glacier forefield chronosequence. *Geochim. Cosmochim. Acta* 75: 5559–5573. (doi: [10.1016/j.gca.2011.07.008](https://doi.org/10.1016/j.gca.2011.07.008))
- Bernasconi SM, Bauder A, Bourdon B, Brunner I, Bünemann E, Christl I, Derungs N, Edwards P, Farinotti D, Frey B, Frossard E, Furrer G, Gierga M, Göransson H, Gylland K, Hagedorn F, Hajdas I, Hindshaw R, Ivy-Ochs S, Jansa J, Jonas T, Kiczka M, Kretzschmar R, Lemarchand E, Luster J, Magnusson J, Mitchell EAD, Olde Venterink H, Plötze M, Reynolds B, Smittenberg R, Stähli M, Tamburini F, Tipper ET, Wacker L, Welc M, **Wiederhold JG**, Zeyer J, Zimmermann S, Zumsteg A (2011) Chemical and biological gradients along the Damma Glacier soil chronosequence (Switzerland). *Vadose Zone J.* 10: 867–883. (doi: [10.2136/vzj2010.0129](https://doi.org/10.2136/vzj2010.0129))
- Hindshaw RS, Tipper ET, Reynolds BC, Lemarchand E, **Wiederhold JG**, Magnusson J, Bernasconi SM, Kretzschmar R, Bourdon B (2011) Hydrological control of stream water chemistry in a glacial catchment (Damma Glacier, Switzerland). *Chem. Geol.* 285: 215-230. (doi: [10.1016/j.chemgeo.2011.04.012](https://doi.org/10.1016/j.chemgeo.2011.04.012))
- Hindshaw RS, Reynolds BC, **Wiederhold JG**, Kretzschmar R, Bourdon B (2011) Calcium isotopes in a proglacial weathering environment: Damma glacier, Switzerland. *Geochim. Cosmochim. Acta* 75: 106-118. (doi: [10.1016/j.gca.2010.09.038](https://doi.org/10.1016/j.gca.2010.09.038))
- Kiczka M, **Wiederhold JG***, Kraemer SM, Bourdon B, Kretzschmar R (2010) Iron isotope fractionation during Fe uptake and translocation in alpine plants. *Environ. Sci. Technol.* 44: 6144–6150. (doi: [10.1021/es100863b](https://doi.org/10.1021/es100863b))
- Wiederhold JG***, Cramer CJ, Daniel K, Infante I, Bourdon B, Kretzschmar R (2010) Equilibrium mercury isotope fractionation between dissolved Hg(II) species and thiol-bound Hg. *Environ. Sci. Technol.* 44: 4191-4197. (doi: [10.1021/es100205t](https://doi.org/10.1021/es100205t))
- Kiczka M, **Wiederhold JG***, Frommer J, Kraemer SM, Bourdon B, Kretzschmar R (2010). Iron isotope fractionation during proton-and ligand-promoted dissolution of primary phyllosilicates. *Geochim. Cosmochim. Acta* 74: 3112-3128. (doi: [10.1016/j.gca.2010.02.018](https://doi.org/10.1016/j.gca.2010.02.018))
- Mikutta C, **Wiederhold JG**, Cirpka OA, Hofstetter TB, Bourdon B, Von Gunten U (2009) Iron isotope fractionation and atom exchange during sorption of ferrous iron to mineral surfaces. *Geochim. Cosmochim. Acta.* 73: 1795-1812. (doi: [10.1016/j.gca.2009.01.014](https://doi.org/10.1016/j.gca.2009.01.014))
- Wiederhold JG***, Teutsch, N, Kraemer SM, Halliday AN, Kretzschmar, R (2007) Iron isotope fractionation in oxic soils by mineral weathering and podzolization. *Geochim. Cosmochim. Acta* 71: 5822-5834. (doi: [10.1016/j.gca.2007.07.023](https://doi.org/10.1016/j.gca.2007.07.023))
- Wiederhold JG***, Teutsch, N, Kraemer SM, Halliday AN, Kretzschmar, R (2007) Iron isotope fractionation during pedogenesis in redoximorphic soils. *Soil Sci. Soc. Am. J.* 71: 1840-1850. (doi: [10.2136/sssaj2006.0379](https://doi.org/10.2136/sssaj2006.0379))
- Wiederhold JG***, Kraemer SM, Teutsch N, Borer PM, Halliday AN, Kretzschmar R (2006) Iron isotope fractionation during proton-promoted, ligand-controlled, and reductive dissolution of goethite. *Environ. Sci. Technol.* 40: 3787-3793. (doi: [10.1021/es052228y](https://doi.org/10.1021/es052228y))

Manuscripts in review / in preparation:

- Wiederhold JG**, Biester H, Schönbächler M* (in preparation) Mercury concentrations, Hg speciation, and Hg isotope compositions of chondrites and eucrites.

Other publications:

- Wiederhold JG** (2008) Eisen im Boden – und der kleine Unterschied. Geosciences Actuel, Platform of the Swiss Academy of Sciences 4: 26-29. ([Link](#))
- Bernasconi SM and **BigLink project members** (2008) Weathering, soil formation and initial ecosystem evolution on a glacier forefield: a case study from the Damma Glacier, Switzerland. Mineralogical Magazine 72(1): 19-22. (doi: [10.1180/minmag.2008.072.1.19](https://doi.org/10.1180/minmag.2008.072.1.19))
- Wiederhold JG** (2006) Iron isotope fractionation in soils – from phenomena to process identification. PhD thesis, Department of Environmental Sciences, ETH Zurich. (doi: [10.3929/ethz-a-005275890](https://doi.org/10.3929/ethz-a-005275890))
ETH Medal for outstanding PhD thesis
- Wiederhold JG**, Teutsch N, Kraemer SM, Borer PM, Halliday AN, Kretzschmar R (2005) Stabile Eisen-Isotope in der Bodenkunde - Untersuchung der Fraktionierungsmechanismen in der Natur und im Labor. Mitteilungen der Deutschen Bodenkundlichen Gesellschaft 107 (2): 673-674. ([Link](#))
- Wiederhold JG**, Teutsch N, Kretzschmar R, Kraemer SM, Halliday AN (2003) Fraktionierung von Eisen-Isotopen: Entwicklung einer neuen Tracermethode für den biogeochemischen Eisen-Kreislauf in Böden. Mitteilungen der Deutschen Bodenkundlichen Gesellschaft 102 (2): 413-414. ([Link](#))
- Wiederhold JG** (2002) Fraktionierung von Eisen-Isotopen in einer Stagnogley-Ockererde-Catena auf Buntsandstein. Diploma thesis, Institute for Mineralogy and Geochemistry, University Karlsruhe (TH), Germany.
- Wiederhold JG** (2001) MSc in Oregon: Ein Jahr zwischen culture shock, Crater Lake und eisenreduzierenden Bodenbakterien. Forum Geoökol. 12 (1): 16-19. ([Link](#))
- Wiederhold JG** (2000) Iron isotope fractionation in a seasonally reduced soil. Project report, Department of Crop and Soil Science, Oregon State University, Corvallis, USA.

Recent conference abstracts (only last 5 years):

- Brocza F, Biester H, Richard, J-H, Kraemer SM, **Wiederhold JG** (2017) Tracing Hg transformations in contaminated soil using Hg isotopes. (Goldschmidt conference, Paris, France, August 13-18, 2017)
- Wiederhold JG**, Grigg ACG, Gilli R, Kretzschmar R (2017) Mercury isotope signatures as tracer for industrial Hg contamination. (Goldschmidt conference, Paris, France, August 13-18, 2017)
- Grigg ACG, Kretzschmar R, Gilli R, **Wiederhold JG** (2017) Hg isotope analysis and sequential extractions of industrially contaminated soils in Valais, CH. (Goldschmidt conference, Paris, France, August 13-18, 2017)
- Wiederhold JG**, Brocza F, Biester H, Richard, J-H, Kraemer SM (2017) Mercury speciation and isotope signatures in soils and groundwater at a HgCl₂ contaminated site - evidence for fractionation processes during species transformations controlling Hg mobility. (13th International Conference on Mercury as a Global Pollutant, Providence, Rhode Island, USA, July 16-21, 2017)
- Biester H, **Wiederhold JG**, Richard, J-H, Schönbacher M (2017) Mercury speciation by pyrolysis-thermo-desorption and Hg isotope signatures by CV-MC-ICP-MS in meteorites. (13th International Conference on Mercury as a Global Pollutant, Providence, Rhode Island, USA, July 16-21, 2017)
- Wiederhold JG** (2017) Mercury isotope signatures as tracers for environmental Hg cycling. (Isotopes 2017, Ascona, CH, July 9-14, 2017) *Invited keynote lecture*
- Brocza F, Biester H, Richard, J-H, Kraemer SM, **Wiederhold JG** (2017) Tracing mercury transformations in a contaminated soil-aquifer system using Hg isotope signatures. (Isotopes 2017, Ascona, CH, July 9-14, 2017)

- Schönbächler M, Biester H, **Wiederhold JG** (2016) The origin of the elevated Hg concentrations in meteorites. (Goldschmidt conference, Yokohama, Japan, June 26 - July 1, 2016)
- Wiederhold JG**, Kraemer SM (2015) Mass-dependent and mass-independent fractionation of stable Hg isotopes as two-dimensional tracer for mercury cycling in the environment. (Stable Isotope Network Austria (SINA) – 14th Meeting, Tulln, Austria, November 26-27, 2015)
- Wiederhold JG**, Schönbächler M (2015) The history of volatile elements in the solar system: Mercury isotope systematics in chondrites and eucrites. (78th Annual Meeting of the Meteoritical Society, Berkeley, USA, July 27-31, 2015)
- Hedge C, Obrist D, Kretzschmar R, **Wiederhold JG**, Biester H, Chow J, Moore C, Agnan Y, Helmig D (2015) Soil and plant mercury concentrations and pools in the Arctic tundra of northern Alaska. (12th International Conference on Mercury as a Global Pollutant, Jeju, Korea, June 14-19, 2015)
- Wiederhold JG**, Schönbächler M (2015) Mercury concentrations and Hg isotope compositions of chondrites and eucrites. (Lunar and Planetary Science Conference, Houston, USA, March 16-20, 2015)
- Jiskra M, Saile D, **Wiederhold JG**, Björn E, Bourdon B, Kretzschmar R (2014) Slow and incomplete exchange during competitive Hg(II) binding to model ligands, NOM, and goethite. (Goldschmidt conference, Sacramento, USA)
- Wiederhold JG**, Jiskra M, Skjellberg U, Drott A, Jonsson S, Björn E, Bourdon B, Kretzschmar R (2013) Tracing local industrial pollution sources with mercury isotopes. (Goldschmidt conference, Florence, Italy)
- Wiederhold JG** (2013) Fractionation of metal isotopes in soils and sediments explored by sequential extractions – examples from Fe and Hg isotopes. (EnvironMetal Isotopes conference, Ascona, CH)
- Jiskra M, **Wiederhold JG**, Kronberg RM, Skjellberg U, Kretzschmar R (2013) Stable mercury isotopes – a tracer for mercury cycling in boreal forest soils and river runoff. (EnvironMetal Isotopes conference, Ascona, CH)
- Smith RS, **Wiederhold JG**, Jew AD, Brown, Jr. GE, Bourdon B, Kretzschmar R. (2013) Source tracing in sediments downstream of the New Idria Hg mine using stable Hg isotope signatures. (EnvironMetal Isotopes conference, Ascona, CH)
- Wiederhold JG**, Smith RS, Siebner H, Jew AD, Brown GE, Bourdon B, Kretzschmar R (2013) Mercury isotope signatures as tracers for Hg cycling at the New Idria Hg mine. (11th International Conference on Mercury as a Global Pollutant, Edinburgh, UK)
- Jiskra M, **Wiederhold JG**, Kronberg RM, Skjellberg U, Kretzschmar R (2013) Boreal forest soils as sink and source for mercury – Insights from stable mercury isotopes. (11th International Conference on Mercury as a Global Pollutant, Edinburgh, UK)
- Kronberg RM, Jiskra M, Drott A, Björn E, **Wiederhold JG**, Skjellberg U (2013) The effect of clear-cutting on methyl mercury formation and mobility. (11th International Conference on Mercury as a Global Pollutant, Edinburgh, UK)
- Smith RS, **Wiederhold JG**, Jew AD, Brown GE, Bourdon B, Kretzschmar R (2013) Source tracing using stable Hg isotope signatures in sediments downstream of the New Idria Hg mine. (11th International Conference on Mercury as a Global Pollutant, Edinburgh, UK)
- Jiskra M, **Wiederhold JG**, Björn E, Kretzschmar R (2013) Adsorption and desorption processes of Hg(II) on goethite investigated using enriched stable isotope tracers under equilibrium condition. (11th International Conference on Mercury as a Global Pollutant, Edinburgh, UK)
- Wiederhold JG**, Jiskra M, Kronberg RM, Skjellberg U, Kretzschmar R (2013) Stable Fe isotope ratios as tracer for biogeochemical Fe cycling in small forest catchments in northern Sweden. (FIMIN Conference “Iron Biogeochemistry - From Molecular Processes to Global Cycles”, Ascona, UK)