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## EDUCATION

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- 8/1996 Ph. D., Analytical & Environmental Chemistry, University of Bremen, Germany
- 2/1992 M.Sc., Analytical Chemistry, Ruhr-Universität Bochum, Germany

## WORK EXPERIENCE

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- 7/2002 – 6/2006 Assistant Professor, ERS, Trent University, Peterborough, ON, Canada
- 7/2006 – 6/2008 Associate Professor, ERS
- 7/2008 – 6/2014 Associate Professor, ERS & Chemistry
- since 9/2011 Director, Water Quality Centre
- since 7/2014 Professor, ERS & Chemistry
- since 7/2016 Professor, School of the Environment & Chemistry
- 1/1997-9/1998 Post-doctoral Research Scientist, Frontier Geosciences, Inc., Seattle, WA, USA
- 9/1998-6/2002 Research Scientist and Group Leader “Metal(loid) Speciation & Geochemistry”

## SELECTED SCIENTIFIC PUBLICATIONS (SELENIUM RESEARCH ONLY)

### PEER-REVIEWED JOURNAL ARTICLES (SELENIUM RESEARCH ONLY)

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- LeBlanc, K.L. & **Wallschläger, D.** (2016): *Production and release of selenomethionine and related organic selenium species by microorganisms in natural and industrial waters*, Environ. Sci. Technol. **50**, 6164-6171
- LeBlanc, K.L., Ruzicka, J. & **Wallschläger, D.** (2016): *Identification of trace levels of selenomethionine and related organic selenium species in high ionic strength waters*, Anal. Bioanal. Chem. **408**, 1033-1042 and 1279 (erratum)
- LeBlanc, K.L., Smith, M.S. & **Wallschläger, D.** (2012): *Production and release of selenocyanate by different green fresh water algae in environmental and laboratory studies*, Environ. Sci. Technol. **46**, 5867-5875
- Petrov, P.K., Charters, J.W. & **Wallschläger, D.** (2012): *Identification and determination of selenosulfate and selenocyanate in flue gas desulfurization waters*, Environ. Sci. Technol. **46**, 1716-1723
- Shaw, S.A., Hendry, M.J., Essilfie-Dughan, J., Kotzer, T. & **Wallschläger, D.** (2011): *Distribution, characterization, and geochemical controls of As, Se and Mo in uranium mine tailings, Key Lake, Saskatchewan, Canada*, Appl. Geochem. **26**, 2044-2056

Martin, A.J., Simpson, S., Fawcett, S., London, J., Wiramanaden, C.I.E., Pickering, I.J., Belzile, N., Chen, Y.-W. & **Wallschläger, D.** (2011): *Biogeochemical mechanisms of selenium exchange between water and sediments in two contrasting lentic environments*, Environ. Sci. Technol. **45**, 2605-2612

Simmons, D.B.D. & **Wallschläger, D.** (2011): *Release of reduced inorganic selenium species into waters by the green fresh water algae *Chlorella vulgaris**, Environ. Sci. Technol. **45**, 2165-2171

Simmons, D. B. D. & **Wallschläger, D.** (2005): *A critical review of the biogeochemistry and ecotoxicology of selenium in lotic and lentic environments*, Environ. Toxicol. Chem. **24**, 1331-1343

**Wallschläger, D.** & London, J. (2004): *Determination of inorganic selenium species in rain and sea waters by anion exchange chromatography-hydride generation-inductively-coupled plasma-dynamic reaction cell-mass spectrometry (AEC-HG-ICP-DRC-MS)*, J. Anal. At. Spectrom. **19**, 1119-1127

**Wallschläger, D.** & Roehl, R. (2001): *Determination of inorganic selenium speciation in waters by ion chromatography-inductively-coupled plasma-mass spectrometry using eluant elimination with a membrane suppressor*, J. Anal. At. Spectrom. **16**, 922-925

**Wallschläger, D.** & Bloom, N.S (2001): *Determination of selenite, selenate and selenocyanate in waters by ion chromatography-hydride generation-atomic fluorescence spectrometry (IC-HG-AFS)*, J. Anal. At. Spectrom. **16**, 1322-1328

#### BOOK CHAPTERS (SELENIUM RESEARCH ONLY)

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Maher, W., Roach, A., Doblin, M., Fan, T., Foster, S., Garrett, R., Möller, G., Oram, L. & **Wallschläger, D.** (2010): *Environmental sources, speciation and partitioning of selenium*, in: Chapman, P.M., Adams, W.J., Brooks, M.L., Delos, C.G., Luoma, S.N., Maher, W.A., Ohlendorff, H.M., Presser, T.S. & Shaw, D.P. (eds.): *Ecological assessment of selenium in the aquatic environment*, CRC Press, Boca Raton, FL, chapter 4, 47-92

**Wallschläger, D.** & Feldmann, J. (2010): *Formation, occurrence, significance and analysis of organoselenium and organotellurium compounds in the environment*, in: Sigel, A., Sigel, H. & Sigel, R.K.O. (eds.): *Organometallics in environment and toxicology, Metal ions in life sciences*, vol. 7, Royal Chemical Society, Cambridge, chapter 10, 319-364

**Wallschläger, D.** & Bloom, N.S (1999): *Selenium speciation in mining process waters by IC-HG-AFS*, Proc. 6th Int. Conf. Tailings and Mine Waste '99, Fort Collins, CO, 24.-27.1. 1999, A.A. Balkema, Rotterdam, 563-572

Edwards, M., Kulas, J.E., Weakley, J.O., Kuit, W., Bloom, N.S & **Wallschläger, D.** (1999): *Aquatic selenium at Cominco's Red Dog mine: sources, speciation, distribution and control*, Proc. 6th Int. Conf. Tailings and Mine Waste '99, Fort Collins, CO, 24.-27.1. 1999, A.A. Balkema, Rotterdam, 535-542

#### PEER-REVIEWED REPORTS (SELENIUM RESEARCH ONLY)

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Ralston, N.V.C., Unrine, J. & **Wallschläger, D.** (2008): *Biogeochemistry and analysis of selenium and its species*, North American Metals Council, Washington, DC

McIntyre, D.O., Pacheco, M.A., Garton, M.W., **Wallschläger, D.** & Delos, C.G. (2008): *Effect of selenium on juvenile bluegill sunfish at reduced temperature*, report # EPA-822-R-08-020, US EPA Office of Water, Washington, DC