

## JOURNAL PUBLICATIONS

- Peltier, E., Webb, S. M. and Gaillard, J.F. (2003). "Zinc and Lead Sequestration in an Impacted Wetland System" *Advances in Environmental Research* 8:103-112
- Peltier, E., Dahl, A.L., and Gaillard, J.F. (2005) "Metal Speciation in Anoxic Sediments: When Sulfides Can Be Construed as Oxides" *Environmental Science and Technology* 39:311-316
- McNear Jr., D. H., Peltier, E., Everhart, J. Chaney, R. Newville, M., Rivers, M., Sutton, S., and Sparks, D. L. (2005) "Application of Quantitative Fluorescence and Absorption-Edge Computed Microtomography to Image Metal Compartmentalization in *Alyssum murale*" *Environmental Science and Technology* 39: 2210-2218
- Peltier, E., Allada, R. K., Navrotsky, A. and Sparks, D. L. (2006) "Nickel Solubility and Precipitation in Soils: A Thermodynamic Study" *Clays and Clay Minerals* in press
- Allada, R. K., Peltier E., Navrotsky, A., Casey, W. H., Johnson, A., Thompson-Berbeco, H. and Sparks, D. L. "Calorimetric determination of the enthalpies of formation of hydrotalcite-like solids and their use in the geochemical modeling of metals in natural waters" submitted to *Clays and Clay Minerals*
- Peltier E. and Sparks, D. L. "Kinetics of Nickel Surface Precipitate Formation in Soils" submitted to *Environmental Science and Technology*
- Peltier E. and Sparks, D. L. "Stability and Bioavailability of Ni LDH Soil Precipitates" in preparation
- Tappero, R., Peltier E., Marcus, M., Chaney R. L., and D. L. Sparks "Metal Interaction and Localization in Ni/Co Hyperaccumulator *Alyssum murale*: Results from Synchrotron X-ray Fluorescence and Tomography" in preparation
- Tappero, R., Marcus, M., Peltier E., Chaney, R. L. and D. L. Sparks "Root-induced changes in metal speciation and bioavailability in the rhizosphere of a Ni/Co hyperaccumulating plant" in preparation

## CONFERENCE PRESENTATIONS

- Peltier, E. and Sparks, D. L. "Formation and Stability of Ni Surface Precipitates in Delaware Soils" National Science Foundation Sponsored Workshop Frontiers in Exploration of the Critical Zone, Newark, DE (October 24-26, 2005)
- Peltier, E. and Sparks, D. L. "Predicting Nickel Precipitate Formation in Contaminated Soils" Soil Science Society of America National Meeting, Seattle, WA (October 31-November 4, 2004)
- Peltier, E. McNear Jr., D. H., and Sparks, D. L. "Formation and Stability of Mixed Metal Hydroxide Phases in Contaminated Soils" 20th Annual International Conference on Soils, Sediments and Water, Amherst MA (October 18-21, 2004).
- Peltier, E., Allada, R.K., Navrotsky, A. and Sparks, D.L. "Formation and Stability of Nickel Soil Precipitates" 228<sup>th</sup> American Chemical Society National Meeting, Philadelphia, PA (August 22-26, 2004)

- Peltier, E. and Sparks, D. L. "Kinetics of Nickel Precipitate Formation in Soils" 227<sup>th</sup> American Chemical Society National Meeting, Anaheim, CA (March 27-April 1, 2004)
- Peltier, E. and Sparks, D.L. "Factors Affecting Ni and Zn Hydroxide Precipitate Formation in Soils" Soil Science Society of America National Meeting, Denver, CO (November 2-6, 2003)
- Peltier, E. and Gaillard, J.F. "Trace Metal Re-Speciation during Partial Oxidation of Anoxic Wetland Sediments" 225<sup>th</sup> American Chemical Society National Meeting, New Orleans, LA (March 23-27, 2003)
- Peltier, E. and Gaillard, J.F. "Assessing Metal Mobility and Release in Wetland Sediments using X-Ray Techniques" 222<sup>nd</sup> American Chemical Society National Meeting, Chicago, IL (August 26-30, 2001)