

## **Michael Komarek**

### **Affiliation:**

Department of Agro-Environmental Chemistry and Plant Nutrition,  
Czech University of Life Sciences, Prague, Czech Republic

### **Research interests:**

- biogeochemistry and speciation of metals in the environment
- sorption and surface complexation modeling
- behavior of fungicides (and their interactions) in vineyard and hopfield soils
- chemical stabilization and phytostabilization of metals/metalloids in contaminated soils
- Pb isotopes as tracers of contamination sources

### **Publications:**

Komarek M., Vanek A., Mrnka L., Sudova R., Szakova J., Tejnecky V., Chrastny V., 2010. Potential and drawbacks of EDDS-enhanced phytoextraction of copper from contaminated soils. *Environmental Pollution* 158, 2428–2438.

Komarek M., Cadkova E., Chrastny V., Bordas F., Bollinger J.C., 2010. Contamination of vineyard soils with fungicides: A review of environmental and toxicological aspects. *Environment International* 36, 138–151.

Komarek M., Vanek A., Szakova J., Balik J., Chrastny V., 2009. Interactions of EDDS with Fe- and Al-(hydr)oxides. *Chemosphere* 77, 87–93.

Komarek M., Vanek A., Chrastny V., Szakova J., Kubova K., Drahota P., Balik J., 2009. Retention of copper originating from different fungicides in contrasting soil types. *Journal of Hazardous Materials* 166, 1395–1402.

Komarek M., Ettler V., Szakova J., Sebek O., Tlustos P., 2009. Bioavailability of lead and cadmium in soils artificially contaminated with smelter fly ash. *Bulletin of Environmental Contamination and Toxicology* 83, 286–290.

Komarek M., Balik J., Chrastny V., Szakova J., 2009. Distribution and fractionation of copper in contaminated hop field soils. *Fresenius Environmental Bulletin* 18, 1319–1323.

Komarek M., Szakova J., Rohoskova M., Javorska H., Chrastny V., Balik J., 2008. Copper contamination of vineyard soils from small wine producers: A case study from the Czech Republic. *Geoderma* 147, 16–22.

Komarek M., Ettler V., Chrastny V., Mihaljevic M., 2008. Lead isotopes in environmental sciences: A review. *Environment International* 34, 562–577.

Komarek M., Tlustos P., Szakova J., Chrastny V., 2008. The use of poplar during a two-year induced phytoextraction of metals from contaminated agricultural soils. *Environmental Pollution* 151, 27–38.

Komarek M., Chrastny V., Stichova J., 2007. Metal/metalloid contamination and isotopic composition of lead in edible mushrooms and forest soils originating from a smelting area. *Environment International* 33, 677–684.

Komarek M., Tlustos P., Szakova J., Chrastny V., Balik J., 2007. The role of Fe- and Mn-oxides during EDTA enhanced phytoextraction of heavy metals. *Plant, Soil and Environment* 53, 216–224.

Komarek M., Tlustos P., Szakova J., Chrastny V., 2007. The role of chloride salts in chemically enhanced phytoextraction of heavy metals from a contaminated agricultural soil. *Bulletin of Environmental Contamination and Toxicology* 78, 166–170.

Komarek M., Tlustos P., Szákova J., Chrastny V., Ettler V., 2007. The use of maize and poplar in chelant-enhanced phytoextraction of lead from contaminated agricultural soils. *Chemosphere* 67, 640–651.

Komarek M., Chrastny V., Ettler V., Tlustos P., 2006. Evaluation of extraction/digestion techniques used to determine lead isotopic composition in forest soils. *Analytical and Bioanalytical Chemistry* 385, 1109–1115.

Membership in international and national scientific societies:  
European Association of Chemistry and the Environment (ACE)

### **Service to the scientific community:**

Teaching: Environmental Biogeochemistry, Agrochemistry