

## **Steve Comfort**

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### **Education**

- 1988 Ph.D. Major: Soil Science; Minor: Water Chemistry.  
University of Wisconsin-Madison.
- 1984 M.S. Major: Soil Science. University of Minnesota.
- 1981 B.S. Majors: Soil Science and Agricultural Extension Education.  
University of Wisconsin-Madison.

### **Professional Experience**

- 1992- Present Asst, Assoc, Full Professor of Soil and Water Chemistry. School of Natural Resources, University of Nebraska-Lincoln.
- 1989-1992 Postdoctoral Research Associate, Soil Chemistry and Soil Physics. Department of Plant, Soil, and Environmental Sciences, Montana State University.
- 1988-1989 Postdoctoral Research Associate, Soil Chemistry. Department of Crop and Soil Sciences, Oregon State University.

### **Recent Research Publications**

- (71) Kambhu, A., M. Gren, W. Tang, S. Comfort, and C.E. Harris. 2017. Remediating 1,4-dioxane-contaminated water with slow-release persulfate and zerovalent iron. *Chemosphere* 175:170-177.
- (70) Christenson, M., A. Kambhu, J. Reece, S. Comfort, and L. Brunner. 2016. A five-year performance review of field-scale, slow-release permanganate candles with recommendations for second generation improvements. *Chemosphere*, 150: 239-247.
- (69) Sakulthaew, C. S. Comfort, C. Chokeyaroenrat, X. Li., and C. Harris. 2015. Removing PAHs from urban runoff water by combining ozonation and carbon nano-onions. *Chemosphere*, 141: 265-273.
- (68) Kananizadeh, N., C. Chokeyaroenrat, Y. Li and S. Comfort. 2015. Modeling improved ISCO treatment of low permeable zones via viscosity modification: Assessment of system variables. *J. Contam. Hydrol.* 173: 25-37
- (67) Sakulthaew, C. S. Comfort, C. Chokeyaroenrat, C. Harris, and X. Li. 2014. A combined chemical and biological approach to transforming and mineralizing PAHs in runoff water. *Chemosphere* 117:1-9.

- (66) Huang, Y.H., T.C. Zhang, P. Shea, and S. Comfort. 2014. Competitive reduction of nitrate, nitrite and nitrobenzene in Fe<sup>0</sup>-water systems. *J. of Environ. Eng.* 140(8)
- (65) Chokeyaroenrat, C. Sakulthaew, S. Comfort, and B. Dvorak. 2014. Improving the treatment of non-aqueous phase TCE in low permeability zones with permanganate. *J. Hazard. Materials.* 268:177-184.
- (64) Chokeyaroenrat C, N. Kananizadeh, C. Sakulthaew, S. Comfort, and Y. Li. 2013. Improving the sweeping efficiency of permanganate into low permeable zones to treat TCE: Experimental results and model development. *Environ. Sci. Technol.* 47:13031-13038
- (63) Rauscher, Lindy, Chainarong Sakulthaew, and Steve Comfort. 2012. Using slow-release permanganate candles to remediate PAH-contaminated water. *J. Hazard. Materials* 241-242:441-449.
- (62) Christenson, M.D., A. Kambhu, and S.D. Comfort. 2012. Using slow-release permanganate candles to remove TCE from a low permeable aquifer at a former landfill. *Chemosphere.* 89:680-687
- (61) Kambhu, A., S. Comfort, C. Chokeyaroenrat, and C. Chainarong. 2012. Developing slow-release persulfate candles to treat BTEX contaminated water. *Chemosphere* 89:656-664
- (60) Halihan, T., J. Albano, S.D. Comfort, and V.A. Zlotnik. 2012. Electrical resistivity imaging of a permanganate injection during in situ treatment of RDX-contaminated groundwater. *Ground Water Monitoring & Remediation.* 32:43-52

## Recently Funded Proposals

- Christenson, M (Principal Investigator, AirLift), Comfort, S. (Principal Investigator, UNL), Yusong Li (UNL). 2015-17. *Improving the treatment of contaminated aquifers by developing direct-push oxidant candles with pneumatic circulators.* Small business technology transfer (STTR) grant from National Institute of Health (NIH), **PHASE II.** AirLift Environmental LLC, Industry, Research, \$1,057,463 (\$348,510 to UNL).
- Comfort, S. (Principal Investigator) 2013. *Improving the treatment of contaminated aquifers by developing direct-push oxidant candles with pneumatic circulators.* Small business technology transfer (STTR) grant from National Institute of Health (NIH), **PHASE I.** AirLift Environmental LLC, Industry, Research, \$49,450
- Comfort, S.D. and Yusong Li. 2009. *A Solute Transport System for Systematically Evaluating Remedial Technologies for Chlorinated Solvent-Contaminated Groundwater,* USGS 104(b); \$11,000; March 2009-March 2010.
- Comfort, S.D. V. Zlotnik, T. Halihan. 2007. *Using Electrical Resistivity Imaging (ERI) to Evaluate Permanganate Performance during an In Situ Treatment of a RDX-Contaminated Aquifer.* Environmental Security Technology Certification Program (ESTCP). \$98,777.
- Comfort, S.D. 2005-2012. *Field-scale demonstrations of innovative remediation techniques for contaminated soil and water.* EPA Federal Earmark Appropriation. \$994,100
- Comfort, S.D. 2004. *Bench testing for in situ ozone oxidation of high explosives.* BWXT Pantex, LLC. \$44,739.