

A. PAUL SCHWAB
Texas A&M University
Department of Soil and Crop Sciences
2474 TAMU
College Station, TX 88743-2474

Phone: 979-845-3663; email: pschwab@tamu.edu

Education

Ph.D., Soil Chemistry, 1981, Colorado State University, Ft. Collins, CO

M.S., Soil Chemistry, 1978, Colorado State University, Ft. Collins, CO

B.S., Mineral Engineering – Chemistry, 1976, Colorado School Mines, Golden, CO

Professional Experience

Professor, Soil and Crop Sciences, Texas A&M University, College Station, 2012-present

Director, Natural Resources and Environmental Science Program, Purdue University, 2008-2012

Professor, Agronomy, Purdue University, West Lafayette, Indiana, 1998-2012

Adjunct Professor, Agronomy, Kansas State University, Manhattan, Kansas, 1998-1999

Adjunct Professor, Division of Biology, Kansas State University, Manhattan, 1996-1999

Professor, Agronomy, Kansas State University, Manhattan, Kansas. 1994-1998

Associate Professor, Agronomy, Kansas State University, Manhattan, Kansas. 1989-1994

Assistant Professor, Agronomy, Kansas State University, Manhattan, Kansas. 1983-1989

Research Scientist, Battelle Pacific Northwest, Richland, Washington. 1981-1983

Professional Activities and Affiliations

Editorial Boards: *Geosciences* 2018-present; *ISRN Soil Science* (2011-2017); *Journal of Undergraduate Research* (Purdue University) (2011-2012); *Journal of Environmental Quality* (1997-2003); *Soil Science of America Journal* (1988-1995);

Chair, Division S-11, Soils and Environmental Quality, 2004

Chair, Soil Chemistry Division of Soil Science Society of America, 1998-1999

Participated in 12 national and international review panels since 2010 for USDA, NIH, EPA, and others

Member, Soil Science Society of America

Member, American Society of Agronomy

Member, American Chemical Society

Awards and Honors

Mentor of the Year, Purdue University Learning Communities. 2012

Fellow, Soil Science Society of Agronomy, 2001

Fellow, American Society of Agronomy, 1998

Emil Truog Award for the Outstanding Dissertation in Soil Science, 1982

Selected Peer Reviewed Publications (122 total)

- Rossi, Lorenzo; W. Zhang, A.P. Schwab, X. Ma. 2017. Uptake, accumulation and in-plant distribution of co-existing cerium oxide nanoparticles and cadmium in *Glycine max* (L.) Merrill. *Environ. Sci. Technol.* 51:12815-12824.
- Fancher, J.P., J.A. Aitenhead-Peterson, T. Farris, K. Mix, A.P. Schwab, D.J. Wescott, and M.D. Hamilton. 2017. An evaluation of soil chemistry in human cadaver decomposition islands: Potential for estimating postmortem interval (PMI). *Forensic Science International* 279:130-139
- Iqbal, A., A. Muhammad, I. Hashmi, R. Karthikeyan, T.J. Gentry, A.P. Schwab. 2017. Biodegradation of phenol and benzene by endophytic bacterial strains isolated from refinery wastewater-fed *Cannabis sativa*. *J. Environ. Toxicol.* <http://dx.doi.org/10.1080/09593330.2017.1337232>
- Zhang, W.C., C. Musante, J.C. White, A.P. Schwab, Q. Wang, S.D. Ebbs, X. Ma. 2017. Bioavailability of cerium oxide nanoparticles to *Raphanus sativus* L. in two soils. *Plant Physiol Biochem.* 110:185-193. <http://dx.doi.org/10.1016/j.plaphy.2015.12.013>
- Sun, M., M. Ye, A.P. Schwab, X. Li, J. Wan, Z. Wei, J. Wu, V-P. Friman, K. Liu, D. Tian, M. Liu, H. Li, F. Hu, X. Jiang. 2016. Human migration activities drive the fluctuation of ARGs: case study of landfills in Nanjing, eastern China. *Journal of Hazardous Materials* 315:93-101 <http://dx.doi.org/10.1016/j.jhazmat.2016.04.077>
- Ding, N., J. Xu, and A.P. Schwab. 2013. Accumulation and transformation of PCBs in ryegrass (*Lolium multiflorum* L.) In J. Xu, J. Wu, Y. He (eds), *Functions of Natural Organic Matter in Changing Environment, Part IV*. Springer Netherlands, Amsterdam. pp 637-640.
- Martin, W.A., L.S. Lee, and A.P. Schwab, 2013. Antimony migration trends from a small arms firing range compared to lead, copper, and zinc. *Science of the Total Environment* 463-464:222-228.
- Kang, D.H., A.P. Schwab, C.T. Johnston, and M.K. Banks. 2010. Adsorption of iron cyanide complexes onto clay minerals, manganese oxide, and soil. *J. Environ. Sci. Health.* 45:1391-1396.
- Nedunuri, K., A.P. Schwab, and R.S. Govindaraju. 2010. Modeling the transport of lead within contaminated soils amended with phosphates, *Ecosystem Management and Restoration Track– II, Proceedings of the ASCE EWRI conference on 3rd International Perspective on Current and Future State of Water Resources and the Environment*, pp 1-9, January 5-7, 2010, IIT Madras, Chennai, India. 9 pp.8
- Smith, K.W., A.P. Schwab, and M.K. Banks. 2007. Phytoremediation of polychlorinated biphenyl (PCB)-contaminated sediment: a greenhouse feasibility study. *J. Environ. Qual.* 36:239-244.
- Banks, M. K., A.P. Schwab, N. Cofield, J.A. Alleman, M. Switzenbaum, J. Shalabi, and P. Williams. 2006. Biosolids amended soils: Part I. Effect of biosolids application on soil quality and ecotoxicity. *Water Environ. Resear.* 78:2217-2230.
- Schwab, A. P., K. Lewis, and M.K. Banks. 2006. Biosolids amended soils: Part II. Chemical lability as a measure of contaminant bioaccessability in biosolids amended soils. *Water Environ. Resear.* 78:2231-2243.
- Spriggs, T., M.K. Banks, and A.P. Schwab 2005. Reduction of polycyclic aromatic hydrocarbons in the rooting zone of trees during phytoremediation of manufactured gas plant impacted soil. *J. Environ. Qual.* 34:1755-1762