

## Speaker Profile



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### Dr. Wei-xian Zhang

Associate Professor, Environmental Engineering,  
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Class 1961 Professorship

### Lehigh University

Dr. Zhang received his B.S. in Environmental Engineering from Tong-Ji University at Shanghai, China, and M.S. and Ph.D. in Environmental Engineering from the Johns Hopkins University. His professional experience also includes 6 years as a consulting engineer.

Dr. Zhang has published more 60 technical papers in the area of environmental engineering. His research has focused on chemical and biological transformation of environmental contaminants such as chlorinated organic solvents, pesticides, PCBs and heavy metal ions. He teaches Introduction to Environmental Engineering, Environmental Organic Chemistry and Environmental Nanotechnology.

Dr. Zhang's work has pioneered the application of iron nanoparticles for environmental remediation. His research group reported the first synthesis of nanoscale iron particles in 1997. The first field application of iron nanoparticles for site remediation was also reported by his group. He was the co-author of the first feature article on Environmental Nanotechnology published by *Environmental Science & Technology* in March 2003.

His work on environmental nanotechnology has received wide attention including interviews by national Public Radio (NPR), more than 20 professional and popular magazines, and numerous local and national newspapers. A video of his research work has been showed by more than 50 TV stations (ABC, NBC, FOX etc.) in U.S. and many foreign TVs. Recent feature articles have appeared on *Popular Science*, *Wall Street Journal*, *MIT Technology Review*, and the *Discovery* magazine etc.

Dr. Zhang is the recipient of National Science Foundation's CAREER Award (2000) and Lehigh University's Class 1961 Professorship. Lehigh Valley Magazine selected him as one of 30 *Movers and Shapers* of Lehigh Valley in 2002