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Professional Preparation

Indian Institute of Technology, Delhi, India	Civil Engineering	B. Tech.	1997
Syracuse University, Syracuse, New York	Environmental Engineering	M.S.	2001
University of California, Berkeley, California	Environmental Engineering	Ph.D.	2007

Appointments

University of California, Los Angeles, California. *(7/2009-present)*
Associate Professor (Assistant Professor 7/2009-6/2015), Civil and Environmental Engineering
Affiliate Faculty, California NanoSystems Institute
Affiliate Faculty, Molecular Toxicology Program

Rice University, Houston, Texas. *Research Scientist* *(7/2007-6/2009)*

University of California, Berkeley, California. *Graduate Student Researcher* *(8/2001-6/2007)*

Syracuse University, Syracuse, New York. *Research Assistant* *(8/1999-8/2001)*

Selected Awards

- National Science Foundation Faculty Early Career Development (CAREER) Award (2013-18).
- Henry Samueli Fellowship (2015-2020).
- DuPont Young Professor Award (2013-2016).
- AECOM Excellence Award in Thought Leadership (2014).
- Northrop Grumman Excellence in Teaching Award (2013).
- PopTech Science and Public Leadership Fellowship (2011- 2012).
- University of California Hellman Fellowship (2011- 2012).
- Excellence in Review Award, Environmental Science & Technology (2011).
- Chi Epsilon National Civil Engineering Honor Society (2011).
- 10 Trendsetters of 2010: Nanotechnology Researchers. Public Works Magazine (2010).
- CH2M-Hill/AEESP Outstanding Doctoral Dissertation Award (2008).

Selected Publications *(among more than 30 archival publications)*

1. Wang, M., D. Abad, V. Kickhofer, L. Rome, and S. Mahendra (2015). Vault Nanoparticles Packaged with Enzymes as a New Biodegradation Technology. *ACS Nano* 9 (11): 10931–10940.
2. Adamson, D. T., R. H. Anderson, S. Mahendra, and C. J. Newell (2015). Evidence of 1,4-Dioxane Attenuation at Groundwater Sites Contaminated with Chlorinated Solvents and 1,4-Dioxane. *Environmental Science & Technology* 49 (11): 6510–6518.
3. Reyes, V. C., S. O. Opot, and S. Mahendra (2015). Planktonic and Biofilm Grown Nitrogen Cycling Bacteria Exhibit Different Susceptibilities to Copper Nanoparticles. *Environmental Toxicology & Chemistry* 34 (4): 887-897.
4. Gedalanga, P. B., P. Pornwongthong, R. Mora, S-Y. D. Chiang, B. Baldwin, D. Ogles, and S. Mahendra (2014). Identification of Biomarker Genes to Predict Biodegradation of 1,4-Dioxane. *Applied and Environmental Microbiology* 80 (10): 3209-3218.
5. Tseng, N., N. Wang, B. Szostek, and S. Mahendra (2014). Biotransformation of 6:2 Fluorotelomer Alcohol (6:2 FTOH) by a Wood-rotting Fungus. *Environmental Science & Technology* 48 (7): 4012-4020.

6. Pornwongthong, P., A. Mulchandani, P. B. Gedalanga, and S. Mahendra (2014). Transition Metals and Organic Ligands Influence Biodegradation of 1,4-Dioxane. *Applied Biochemistry and Biotechnology* 173 (1): 291-306.
7. Adamson, D. T., S. Mahendra, K. L. Walker, S. R. Rauch, S. Sengupta, and C. J. Newell (2014). A Multi-Site Survey to Identify the Scale of the 1,4-Dioxane Problem at Contaminated Groundwater Sites. *Environmental Science & Technology Letters* 1 (5): 254-258.
8. Hurwitz, G., P. Pornwongthong, S. Mahendra, and E. M.V. Hoek (2014). Degradation of Phenol by Synergistic Chlorine-enhanced Photo-assisted Electrochemical Oxidation. *Chemical Engineering Journal* 240 (6): 235–243.
9. Gedalanga, P. B., S. M. Kotay, C. M. Sales, C. S. Butler, R. Goel, and S. Mahendra (2013). Novel Applications of Molecular Biological and Microscopic Tools in Environmental Engineering. Water Environment Research 85 (10): 917-950.
10. Mahendra, S., A. Grostern, and L. Alvarez-Cohen (2013). The Impact of Chlorinated Solvent Co-contaminants on the Biodegradation Kinetics of 1,4-Dioxane. *Chemosphere* 91 (1): 88-92.
11. Reyes, V. C., M. Li, E. M. V. Hoek, S. Mahendra, and R. D. Damoiseaux (2012). Genome Wide Assessment in Escherichia coli Reveals Time Dependent Nanotoxicity Paradigms. *ACS Nano* 6 (11): 9402-9415.
12. Chiang, S-Y. D., R. Mora, W. H. DiGuiseppi, G. Davis, K. Sublette, P. B. Gedalanga, and S. Mahendra (2012). Characterizing the Intrinsic Bioremediation Potential of 1,4-Dioxane and Trichloroethene Using Innovative Environmental Diagnostic Tools. *Journal of Environmental Monitoring* 14 (9): 2317-2326.

Research Support *(last 5 years)*

- National Science Foundation. *CAREER: Enzyme Expression in Microbial Communities Oxidizing Emerging Water Contaminants*. Principal Investigator (2013-2018).
- Strategic Environmental Research and Development Program. *In Situ Biodegradation of 1,4-Dioxane: Effects of Metals and Chlorinated Solvent Co-Contaminants*. Principal Investigator (2013-2016).
- Strategic Environmental Research and Development Program. *In Situ Treatment and Management Strategies for 1,4-Dioxane-Contaminated Groundwater*. Co-PI with David Adamson (GSI Environmental), Michael Wong (Rice University), and Daniel Bryant (Geo-Cleanse) (2013-2015).
- Strategic Environmental Research and Development Program. *Bioaugmentation with Vaults: A Novel In situ Remediation Strategy for Transformation of Perfluoroalkyl Compounds*. Principal Investigator; co-PI Leonard Rome, UCLA Biological Chemistry (2014- 2015).
- Dow Chemical Company. *Analytical Tools for Assessing Biodegradation of 1,4-Dioxane in Environmental Samples*. Principal Investigator (2013-2016).
- Du Pont Young Professor Grant Program. *Fungal Degradation of Perfluoroalkyl and Polyfluoroalkyl Compounds*. Principal Investigator ((2013-2016).
- Water Planet Engineering. *The Synthesis and Characterization of Chlorine Resistant Polyaniline Derivative Ultrafiltration Membranes*. Principal Investigator (2012-2014).
- US Air Force Civil Engineer Center. *Bioaugmentation to Enhance Biodegradation of 1,4-Dioxane*. Co-PI with Rebecca Mora, AECOM, Inc. (2013-2015).
- US Air Force Civil Engineer Center. *Is bioremediation a relevant attenuation mechanism for perfluorinated compounds?* PI (2011-2013).
- US Air Force Civil Engineer Center. *Molecular Biomarkers to Support Natural Attenuation and Bioremediation of 1,4- Dioxane*. PI (2011-2013).
- National Science Foundation. *Copper Nanoparticle Interactions with Nitrogen Cycling Bacteria*. PI (2011-14).