

## ABET FACULTY VITAE (2 Page)

**Name:** Mei Sun

### **Education:**

- Ph.D., Civil and Environmental Engineering, Carnegie Mellon University, 2012
- M.S., Civil and Environmental Engineering, Carnegie Mellon University, 2008
- B.E., Environmental Science and Engineering, Tsinghua University-China, 2007

### **Academic Experience:**

- UNC Charlotte, Assistant Professor, January 2016 – Present, Full-Time
- North Carolina State University, Postdoctoral Researcher, April 2013 – December 2015, Full-Time
- Carnegie Mellon University, Research Assistant, July 2008 – December 2012

### **Non-Academic Experience:**

- Xi'an Zhengde Environmental Protection Engineering Corporation, Environmental Engineer Intern, July 2006 – August 2006, Full-Time

### **Certifications or Professional Registrations:**

- E.I., State of Michigan

### **Current Membership in Professional Organizations:**

- American Society of Civil Engineers (ASCE)
- Association of Environmental Engineering and Science Professors (AEESP)
- American Chemical Society (ACS)
- American Water Works Association (AWWA)

### **Honors and Awards:**

- Anchor QEA Scholarship, Carnegie Mellon University, 2010
- Liang Ji-Dian Graduate Fellowship, Carnegie Mellon University, 2010
- Dean's Fellowship, Carnegie Mellon University, 2008
- Department Scholarship of Civil and Environmental Engineering, Carnegie Mellon University, 2007
- National Scholarship, Tsinghua University, 2006 and 2005
- ExxonMobil Scholarship, Tsinghua University, 2004

### **Service Activities (Within and Outside of the Institution):**

- Member of Joint Section Research Committee of American Water Association

### **Select Publications and Presentations (Last Five Years):**

#### Publications

1. Knappe, D.R.U., Ingham, R. S., Moreno-Barbosa, J. J., Sun, M., Summers, R. S., and Dougherty, T.. "Evaluation of Henry's Law Constant and Freundlich Adsorption Constant for VOCs." Denver, Co.: Water Research Foundation.

2. Sun, W., Sun, M. and Barlaz, M.A., "Characterizing the Biotransformation of Sulfur-Containing Wastes in Simulated Landfill Reactors." *Waste Management*, 2016, DOI: 10.1016/j.wasman.2016.01.028.
3. Sun, M., Lopez-Velandia, C., Knappe, D.R.U. "Determination of 1,4-dioxane in the Cape Fear River Watershed by Heated Purge-and-trap Preconcentration and Gas Chromatography–Mass Spectrometry." *Environmental Science & Technology*, 2016, 50 (5), pp 2246–2254
4. Sun, M. Sun, W., and Barlaz, M.A., "A Batch Assay to Measure Microbial Hydrogen Sulfide Production from Sulfur-Containing Solid Wastes." *Science of the Total Environment*, 2016, Volumes 551–552, Pages 23–31.
5. Sun, M.; Lowry, G. V.; Gregory, K. B. "Selective Oxidation of Bromide in Wastewater Brines from Hydraulic Fracturing." *Water Research*. 2013, 47 (11), pg 3723-3731.
6. Sun, M., Reible, D. D., Lowry, G. V. and Gregory, K. B. "Effect of Applied Voltage, Initial Concentration and Natural Organic Matter on Sequential Reduction/Oxidation of Nitrobenzene by Graphite Electrodes." *Environmental Science & Technology*. 2012, 46 (11), pg 6174-6181.

#### Selective presentations

1. Sun, M., Dudley, L., Strynar, M., Lindstrom, A., Knappe, D.R.U., "Adsorption of traditional and emerging perfluoroalkyl substances by powdered activated carbon" Oral presentation - 251st National Meeting of American Chemical Society, San Diego, CA. 2016
2. Sun, M., Lopez-Velandia, C., Knappe, D.R.U., "Using heated purge-and-trap and gas chromatography–mass spectrometry to quantify 1,4-dioxane in the Cape Fear River watershed in North Carolina" Oral presentation - Water Quality Technology Conference, Salt Lake City, UT, 2015
3. Sun, M., Lowry, G.V., Gregory, K.B. and Reible, D.D. "Effect of applied voltage and natural organic matter on sequential reduction–oxidation of nitrobenzene with carbon electrodes." Oral presentation - 241st National Meeting of American Chemical Society, Anaheim, CA. 2011
4. Sun, M., Lowry, G.V., Gregory, K.B. and Reible, D.D. "Effect of applied voltage, initial concentration and natural organic matter on electrochemical nitrobenzene degradation." Poster presentation - 1st Annual Poster Session and Reception, Steinbrenner Institute for Environmental Education & Research, Pittsburgh, PA. 2011.

#### **Recent Professional Development Activities:**

- Workshop: How to Engineer Engineering Education, Bucknell University, 2016
- Workshop: Fundamentals in Teaching, North Carolina State University, 2013
- Workshop: Preparing Future Faculty, West Virginia University, 2012
- Course: Preparing for a Faculty Career, Carnegie Mellon University, 2011-2012
- Course: Language and Culture for Teaching, Carnegie Mellon University, 2009