CURRICULUM VITAE

SAMUEL D. SNOW

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EDUCATION

Georgia Institute of Technology, Atlanta, GA
Ph.D. in Environmental Engineering **Aug. 2014**

Georgia Institute of Technology, Atlanta, GA
B.S. in Earth and Atmospheric Science **May 2009**

ACADEMIC APPOINTMENTS

Assistant Professor, Louisiana State University, CEE **Aug. 2016 – Present**
Postdoctoral Research Associate, Michigan State University, CEE **2015 – 2016**
Graduate Research Assistant, Georgia Institute of Technology, CEE **2009 – 2014**
Undergraduate Researcher, Georgia Institute of Technology, EAS **2008 – 2009**

OTHER APPOINTMENTS

Environmental Quality Analyst: Permit Writer, Michigan Department of Environmental Quality **2015**
NOAA Hollings Intern: Northwest Fisheries Science Center **2008**

AWARDS

Journal article featured on cover of *ES&T Letters*' June 2014 issue **2014**
Bill Schutz Graduate Teaching Assistant Award **2013**
Student Travel Award for the 7th ICEENN **2012**
Student Travel Award for the 1st Sustainable Nanotechnology Organization (SNO) Conference **2012**
First prize winner in the GT Energy Club poster competition **2011**
Graduated with Honors, Georgia Tech **2009**
Graduated with the business and research options, Georgia Tech **2009**
Ernest F. Hollings Undergraduate Scholarship Program, NOAA **2007 – 2009**

TEACHING EXPERIENCE

Primary Instructor for EVEG 3110: "Water and Wastewater Treatment" **2016 – Present**
Primary Instructor for EVEG 4156: "Water and Wastewater Treatment in Developing Countries" **2018 – Present**
Teaching Assistant for CEE 4803C: "Environmental Technology in the Developing World" **2011 – 2013**
Georgia Tech Environmental Engineering Research Internship Program Mentor **2012 – 2012**
High School Math and Science Tutor **2015**

ACADEMIC AND PROFESSIONAL EXPERIENCE

Louisiana State University, Baton Rouge, LA
Assistant Professor, Civil & Environmental Engineering **2016 – Present**

Michigan State University, East Lansing, MI
Postdoctoral Research Associate **2015 – 2016**

Michigan Department of Environmental Quality, Lansing, MI
Environmental Quality Analyst **2015**

Georgia Institute of Technology, Atlanta, GA
Graduate Research Assistant in Dr. Jaehong Kim's research group **2009 – 2014**

Georgia Institute of Technology, Atlanta, GA
Undergraduate Researcher in Dr. Ellery Ingall's research group **2008 –2009**

NOAA Northwest Fisheries Science Center, Seattle, Washington
Hollings Intern **2008 – 2008**

PUBLICATIONS AND PRESENTATIONS

- **Snow, S. D.**; LaRoy, C. E. L.; Tarabara, V. V., "Photocatalysis in Membrane Bioreactor Effluent: Assessment of Inhibition Routes." *ASCE Journal of Environmental Engineering*, Accepted Sept. **2018**.
- Guo, B.; **Snow, S. D.**; Starr, B. J.; Xagoraraki, I.; Tarabara, V. V., "Photocatalytic inactivation of human adenovirus 40: Effect of dissolved organic matter and prefiltration." *Separation and Purification Technology* **2018,** *193*, 193-201.
- Moor, K. J.; **Snow, S. D.**; Kim, J. H. "Light Sensitized Disinfection with Fullerene." *Applying Nanotechnology for Environmental Sustainability*. Edited by Sung Hee Joo, IGI Global, **2016**, pp 137-163.
- Moor, K. J.; **Snow, S. D.**; Kim, J. H. (**2015**). "Differential Photoactivity of Aqueous [C_{60}] and [C_{70}] Fullerene Aggregates" *Environmental Science & Technology*, 49, pp 5990–5998.
- **Snow, S. D.**; Kim, K. C.; Moor, K. J.; Jang, S. S.; Kim, J. H. (2**015**). "Functionalized Fullerenes in Water: A Closer Look" *Environmental Science & Technology*, 49, pp 2147–2155.
- Choi, J. I.; **Snow, S. D.**; Kim, J. H.; Jang, S. S. (**2015**). "Interaction of C_{60} with water: First-Principles Modeling and Environmental Implications" *Environmental Science and Technology*, 49, pp 1529–1536.
- **Snow, S. D.**; Park, K. E.; Kim, J. H. (**2014**). "Cationic Fullerene Aggregates with Unprecedented Virus Photoinactivation Efficiencies in Water" *Environmental Science & Technology Letters*, 1, pp 290–294.
- Moor, K.; Kim, J.H.; **Snow, S. D.**; Kim, J. H. (**2013**). "C_{70} Fullerene-Sensitized Triplet-Triplet Annihilation Upconversion" *Chemical Communications*, 49 (92), 10829 – 10831.
- **Snow, S. D.**; Lee, J. S.; Kim, J. H. (**2012**). "Photochemical and Photophysical Properties of Sequentially Functionalized Fullerenes in the Aqueous Phase" *Environmental Science & Technology*, 46, 13227-13234.
- Cho, M., **Snow, S. D.**, Hughes J. B. and Kim J. H. (**2011**) "Escherichia coli Inactivation by UV Irradiated C_{60}: Kinetics and Mechanisms" *Environmental Science and Technology*, 45 (22), pp 9627–9633.
- Diaz, M. J., Ingall, E. D., **Snow, S. D.**, Benitez-Nelson, C. R., Taillefert M. and Brandes J. A. (**2012**) "Potential role of inorganic polyphosphate in the cycling of phosphorus within the hypoxic water column of Effingham Inlet, British Columbia" *Global Biogeochemical Cycles*, 26 (2), GB2040.

254th National American Chemical Society Conference **2018**
Presented orally on "Differentiating the Inhibitory Effects of Natural Organic Matter Constituents on Photocatalytic Treatment Processes" at the national ACS research symposium in New Orleans, LA.

Invited Speaker: German American Water Symposium **2017**
Presented on "Solar Water Disinfection: Challenges and Opportunities" in Baton Rouge, Louisiana

Invited Lecture: Louisiana State University **2017**
Lectured on "Photochemistry in Complex Waters: Understanding the Challenges" at Louisiana State University's Chemical Engineering seminar series.

Invited Lecture: University of Montpellier, France **2016**
Lectured on "Photochemistry in Natural Waters: Understanding the Challenges" at Institut Européen des Membranes - Université de Montpellier.

Invited Lecture: Louisiana State University **2016**
Lectured on "Photochemistry for Disinfection: Advances and Challenges in Photocatalytic Materials" at Louisiana State University's Civil and Environmental Engineering seminar series.

Invited Lecture: University of Houston **2016**
Lectured on "Photochemistry for Disinfection: Advances and Challenges in Photocatalytic Materials" at the University of Houston's Civil and Environmental Engineering seminar series.

Invited Lecture: Michigan State University **2015**
Lectured on "Photochemistry and Photobiological Implications of Functionalized Fullerenes in Aqueous Systems" at MSU's Environmental Engineering seminar series.

Gordon Research Conference **2013**
Presented a poster on "Understanding the Implications of Transformation and Functionalization on the Photophysical Properties of Aqueous Fullerene Aggregates" at the Gordon Research Conference in Stowe, VT.

245th National American Chemical Society Conference **2013**
Presented orally on "Photochemistry of Aqueous Fullerene Aggregates as a Function of Size Fractionation and Surface Functionalization" at the national ACS research symposium in New Orleans, LA.

1st Sustainable Nanotechnology Organization (SNO) Conference **2012**
Presented orally on "Antimicrobial Properties of Fullerene Derivatives as a Function of Structure and Aggregation State" at the first ever SNO conference in Arlington, VA.

7th International Conference for Environmental Effects of Nanoparticles and Nanomaterials **2012**
Presented a poster on "Antimicrobial Properties of Fullerene Derivatives as a Function of Structure and Aggregation State" at the international conference in Banff, Canada.

243rd National American Chemical Society Conference **2012**
Presented orally on "Experimental Steps towards QSAR Analysis of Functionalized Fullerene Nanomaterials" at the national ACS research symposium in San Diego, California.

The School of Earth and Atmospheric Science's Annual Research Symposium **2008**

Presented jointly with the Environmental Field Methods class as a departmental seminar on "Dynamics of Atmospheric, Geophysical, and Geochemical Processes Regulating the Transport of Nutrients and Pollutants in a Coastal Environment"

Ernest F. Hollings Internship Symposium **2008**
Presented orally on "Evaluating Habitat Availability, Connectivity, and Use by Pacific Salmon" at the Hollings Scholarship and Internship Program's national conference in Washington D.C. at NOAA's headquarters

SCHOLARLY SOURCES REVIEWED

Environmental Science and Technology, Catalysis Today, Water Research, IGI Global, Water Quality Research Journal of Canada, Chemosphere

MEMBERSHIPS AND INVOLVEMENT

Engineers Without Borders – Louisiana State University
Faculty Advisor **2016 – Present**

American Chemical Society
Member **2009 – Present**

Association of Environmental Engineers and Scientists Professors
Member **2016 – Present**

Water Environment Federation
Member **2014 – Present**

Michigan Water Environment Association
Member **2014 – 2016**

Association of Environmental Engineers and Scientists- Georgia Tech chapter
President and Vice President of Grad Affairs **2010 – 2012**
Coordinated a team of officers and committee chairs to conduct various events, including a panel discussion, a symposium event with a poster competition, and a sponsor luncheon series

Engineers Without Borders – Georgia Tech
Member **2008 – 2011**
Helped with planning for water projects in Cameroon
Volunteered with EWB group for a water distribution project in Chinandega, Nicaragua