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Hamilton D. Giles

- Objective** To obtain a full-time entry level position with an environmental engineering consulting firm.
- Education**
- 2009-2012 Georgia Institute of Technology Atlanta, GA
- Master of Science in Environmental Engineering
 - Paper Science and Engineering Fellow
 - Thesis Topic: Fate and Biodegradation of Phytosterols in Pulp Mill Wastewater Treatment Systems
 - GPA: 3.90
 - Expected Graduation Date: Aug. 2012
- 2006-2009 Georgia Institute of Technology Atlanta, GA
- Bachelor of Science in Environmental Engineering
 - High Honors, Major GPA: 4.00, Overall GPA: 3.48
 - John Webb Spratlin CEE Scholarship, Spring 2008
- 2001-2004 Valdosta State University Valdosta, GA
- Bachelor of Business Administration, Major in Finance
- Experience**
- Sept. 2009 – Current Georgia Institute of Technology Atlanta, GA
Graduate Research Assistant
- Investigated chemical and physical properties, biodegradation and environmental fate of plant sterols (phytosterols) and cholesterol.
 - Developed analytical protocols to extract and quantify sterols and determine their physical properties.
 - Designed experiments to assess the biotransformation potential and phase partitioning behavior of phytosterols and factors affecting these processes.
 - Trained and supervised undergraduate students, beginning graduate students and visiting scholars.
- May – Aug. 2008 Georgia Institute of Technology Atlanta, GA
Undergraduate Researcher
- Investigated the environmental toxicity of quaternary ammonium compounds using the marine microorganism *Vibrio fischeri*.
- Jan. – Dec. 2005 Advanced Vessel and Alloy Valdosta, GA
Assistant Shop Foreman
- Cut, assembled and welded structural steel components and steel vessels.
 - Passed in-house welding test with MIG welding system.

Professional Skills Analytical Method Development (e.g. GC-MS, HPLC)
Computer Drafting and Design (AutoCAD, ArcGIS)
Hydraulic Systems Engineering
Steel Fabrication and Construction
Cost Estimation and Budgeting
Proficient in the use of Microsoft Word, Excel and Powerpoint

Activities 2010-2011 Treasurer, Association of Environment Engineers and Scientists (AEES)
Georgia Tech Student Chapter
2009 AEES Liaison to Georgia Association of Water Professionals (GAWP)
2009 GAWP Spring Conference
2008-2009 Member of Student Advisory Council, Georgia Tech School of Civil and Environmental Engineering,

Professional Affiliations American Chemical Society
Association of Environmental Engineers and Scientists
Georgia Association of Water Professionals

Posters Hamilton Giles, Sujit Banerjee, and Spyros Pavlostathis, Fate and Degradation of Sterols in Pulp Mill Wastewater Treatment Systems, *AEES Spring Symposium*, 2011 (Best Poster Award)

Hamilton Giles, Sujit Banerjee, and Spyros Pavlostathis, Fate and Degradation of Sterols in Pulp Mill Wastewater, *Institute of Paper Science and Technology Executive Conference*, 2011