

**Stefanie L. Asher**  
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**School Information:**  
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**Objective:** To obtain a position in industrial control or monitoring of corrosion that would allow me to further develop my skills and knowledge of corrosion science.

**Education:** **Georgia Institute of Technology, Atlanta, GA**  
**Doctorate of Philosophy, Materials Science and Engineering**  
May 2004 – December 2007  
**Thesis:** Investigating the Mechanism of Transgranular Stress Corrosion Cracking on Buried Fuel Transmission Pipelines  
**Advisor:** Dr. Preet M. Singh

**Georgia Institute of Technology, Atlanta, GA**  
**Bachelor of Science, Materials Science and Engineering**  
Highest Honors  
August 2001 - May 2004

**Georgia Southern University, Statesboro, GA**  
Regents' Engineering Transfer Program  
August 1999 – May 2001

**Experience:**  
10/02 – 12/03 **Georgia Institute of Technology, Atlanta, GA**  
**Undergraduate Research Assistant**

- Characterized ceramic microstructure
- Organized data images of materials and properties for National Science Foundation

5/02 – 8/02 **U.S. Nuclear Regulatory Commission, Atlanta, GA**  
5/03 – 8/03 **Summer Technical Intern**

- Extensive research on eddy current testing of steam generator tubes
- Assisted with inspections of nuclear plants
- Obtained security clearance
- Trained in Basic Qualification for Engineering Inspector

5/00 – 8/00 **Southern Company: Plant E. I. Hatch, Baxley, GA**  
5/01 – 8/01 **Engineering Intern:**

- Responsible for finding equivalent replacement parts for outdated equipment
- Assisted in designed modification for plant electrical system
- Oversaw qualifications of welders and welding procedures
- Trained in TIG, SMAW, MIG welding and brazing

**Publications:****Refereed**

S. Asher, P. Singh, J. Colwell, B. Leis. "Investigating a New Mechanism for Transgranular Stress Corrosion Cracking on Buried Pipelines in Near-Neutral pH Environments" Submitted for Publication in *Corrosion*

S. Asher, P. Singh, J. Colwell, B. Leis. "Stress Corrosion Cracking of Pipeline Steel in Near-Neutral pH Environments" Paper # 06175 in NACE Corrosion Expo 2006, San Diego, CA; 2006.

**Non-refereed**

S. Asher, P. Singh, J. Colwell, B. Leis. "Crack Initiation on Line Pipe Steels in Near-Neutral pH Environments" in 16<sup>th</sup> International Corrosion Congress, Beijing, China; 2005.

**Academic Honors**

Boeing Graduate Fellowship  
Georgia Tech WLC Outstanding Undergraduate Female of the Year, 2004  
Georgia Engineering Foundation Scholarship  
Alcoa Scholarship for Women in Engineering  
Shirley Mewborn Scholarship  
Caterpillar Scholarship  
Gulfstream Scholarship

**Professional Affiliations**

NACE member since 2004  
ASM/TMS member since 2002  
President Georgia Tech Student Chapter of ASM/TMS, 2003/2004

**Activities**

Institute of Paper Science and Technology Safety Committee  
Women's Awareness Month production of *The Vagina Monologues*  
Liaison for Graduate Women of Material Science and Engineering  
Material Science and Engineering Umbrella Society  
Golden Key Honor Society  
Team Leader for Introduction to Engineering Course at Georgia Tech  
A.E. Paulson College of Science Ambassador, Georgia Southern University  
Volunteer at Lamar Q. Ball, Jr. Raptor Center for Wildlife Education

**Interests**

Collecting pink depression glass, golf, watercolor, photography, Georgia Tech football