

## **JAMES SAMP**

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### **OBJECTIVE**

To obtain a full-time position in the Pulp and Paper, Chemical, or related industry which requires teamwork and strong problem solving and leadership skills.

### **EDUCATION**

#### **Georgia Institute Technology, Atlanta, GA**

Doctor of Philosophy degree in Paper Science and Engineering  
Anticipated date of graduation May, 2008  
Master of the Sciences degree in Chemical Engineering  
May 2007

#### **North Carolina State University, Raleigh, NC**

Bachelor of the Sciences degree in Pulp & Paper Science & Technology  
Bachelor of the Sciences degree in Chemical Engineering  
Magna cum Laude, May 1999

### **EXPERIENCE**

#### **May 2000-August 2000**

#### **Georgia-Pacific Corporation, Palatka, FL – Summer Intern**

**Test Method Development:** Developed low cost methods of testing paper properties. Gained an understanding of physical and optical properties of tissue. Gained experience with image analysis and computer programming.

**Product Development:** Gathered data in preparation for new standardization of product. Worked with converting and printing operations to help make new specifications for products.

#### **May 1999-July 1999**

#### **NC State Dept. of Applied Research, Raleigh, NC – Research Scientist**

**Research:** Participated in new studies of non-woody plant fibers and the use of these fibers in papermaking. Created and analyzed chemical pulps of cereal straws, corn stalk, reed, and tobacco stalk. Presented analysis results to industry firms.

**May 1998-August 1998**

**Union Camp Corporation, Franklin, VA – Summer Intern**

**Printing Technology:** Developed test method for the quantitative measurement of color-to-color bleed in inkjet printing papers. Aided in development of test for ink dry time on ink jet papers.

**Marketplace Characterization Team:** Assisted in benchmarking of products against industry competition through paper testing and data analysis. Attended coated-board print trial. Analyzed data for board trial results. Developed report of analysis.

**Quality Assurance:** Assisted quality engineers in complaints processing.

**Standardization:** Aided in review of mill conformity to JCP and ANSI standards.

## **PUBLICATIONS**

- J. Samp, J. Li, "How Does Mass Transfer Affect the Effectiveness of AQ?" APPITA Journal, 57(2):132-136, 2004.
- X.-S. Chai, J. Samp, Q.X. Hou, "Novel Mechanism for the Nafion Membrane Transfer of Anthraquinones," Journal of Membrane Science, 271(1-2):215-220, 2006.
- X.-S. Chai, J.C. Samp, Q.F. Yang, H.N. Song, D.C. Zhang, J.Y. Zhu, "Determination of Microstickies in Recycled Whitewater by Headspace Gas Chromatography," Journal of Chromatography A, 1108(1):14-19, 2006.
- X.-S. Chai, J. Samp, H.N. Song, H.X. Zhu, "Novel Headspace Gas Chromatographic Method for Determination of Oxalate in Oxygen Delignification Liquor," Journal of Chromatography A, 1122(1-2):209-214, 2006.
- X.-S. Chai, J.C. Samp, "Corrosion Problem in Headspace Gas Chromatography with Phase Conversion Reaction Technique," accepted for publication in Journal of Chromatography A., Apr. 2007
- X.-S. Chai, J. Samp, Q.X. Hou, S.-H. Yoon, J.Y. Zhu. "Possible Mechanism for Anthraquinone Species Diffusion in Alkaline Pulping," Industrial & Engineering Chemistry Research, 46(15):5245-5249, 2007.