

Melody Jewell

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EDUCATION

Ph.D. in Paper Science and Engineering

December 2002

Teaching Assistant, University of Minnesota; Dept. of Wood and Paper Science

Fall 1999-2001

- WPS 4305 Pulp and Paper Technology for 3 semesters
- Directed group work in the lab involving
 - Beating of pulp and examination of resulting pulp/paper physical properties
 - Repulping mixed office waste, removal of ink particles and evaluation of paper properties
 - Addition of cationic starch to pulp as a wet-end additive and evaluation of resulting paper properties
 - Measurement of fine particles in pulp and evaluation of a retention aid in fines retention
 - Evaluation of addition of a sizing agent on permeability of paper to liquid
- Helped produce a CD-ROM of laboratory exercises to accompany long-distance education course
- Evaluated student learning and writing ability through reading reports on various laboratory exercises
- Held weekly office hours to answer student questions from homework and laboratory exercises
- Occasional lecturer for class material in professor's absence

Teaching Assistant, University of Minnesota; Dept. of Wood and Paper Science

Spring 2000-2002

- WPS 4362 Pulping and Bleaching T.A. for 3 semesters
- Directed group work in the lab involving
 - Kraft pulping and oxygen bleaching of hardwood
 - Refiner8.1 (e)-11.1 (.1 (x)Tf -;a)-9.8o2.3 (h)8.1 (i)-9.2 (np(es)5.5 (t)-9.2 (p(es)5)8 (er)-2.es)5gffid erac 0 Tw 17.494 0 T6.50

PUBLICATIONS and PRESENTATIONS

Publications

- 1) "Chemistry 106L: Chemistry Survey Lab"; 10th edition; Hirko, Ron and **Jewell, Melody**; bluedoor: Minnetonka, MN, 2016.
- 2) "Chemistry 106L: Chemistry Survey Lab"; 9th edition; Hirko, Ron and **Jewell, Melody**; bluedoor: Minnetonka, MN, 2015.
- 3) "Chemistry 106L: Chemistry Survey Lab"; 8th edition; Hirko, Ron and **Jewell, Melody**; bluedoor: Minnetonka, MN, 2014.
- 4) "Chemistry 106L: Chemistry Survey Lab"; 7th edition; Hirko, Ron and **Jewell, Melody**; bluedoor: Minnetonka, MN, 2013.
- 5) "Chemistry 106L: Chemistry Survey Lab"; 6th edition; Hirko, Ron and **Jewell, Melody**; bluedoor: Minnetonka, MN, 2012.

Oral Presentation: Jewell; "ChTc 0.023
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Poster Presentation: Jewell, Melody and Tschirner, Ulrike. "Sulfur-Free, Chlorine-Free Production of Paper from Agricultural Residues." 6th Annual Environmental Science and Engineering Conference: Balancing Progress and the Environment, April 6-7, 1998, University of Minnesota.

Refereed Conference Proceedings

- 1) **Written paper and oral presentation: Jewell, Melody** and Tschirner, Ulrike. "Improved Selectivity of Oxygen Bleaching Through Use of Chemical Additives." 2001 TAPPI Pulping Conference, November 4-7, Sheraton Seattle Hotel and Towers in Seattle, WA.
- 2) **Written paper and poster presentation: Jewell, Melody** and Tschirner, Ulrike. "Sulfur-Free Pulping and Chlorine-Free Bleaching of Agricultural Residues for Paper Production." 1998 TAPPI International Engineering Conference Poster Book, September 13-17, Fontainebleau Hilton Hotel in Miami Beach, FL: pages 13-19.
- 3) **Co-authored paper:** Goel, Ankur, ~~Jewell, Melody~~ and Tschirner, Ulrike. "Sulfur-Free, Chlorine-Free Production of Paper from Agricultural Residues." 6th Annual Environmental Science and Engineering Conference: Balancing Progress and the Environment, April 6-7, 1998, University of Minnesota.

- Fall Faculty Development Seminar; SDSU; August 2007
- POGIL Symposium; University of St. Thomas; St. Paul, MN; June 23-25, 2005
- Benjamin Cummings Strategies for Success Workshop; University of Minnesota; April 4, 2004

COMMITTEE WORK

- 2015-2016: member of the search committee for CBC Department Head
- 2014: Member of the search committee for LATI chemistry faculty member
- 2012-2013: Member of the departmental Chemical Education faculty search committee
- 2011: Chair of the search committee for STI chemistry faculty member
- 2010: Member of the departmental Chemical Education faculty search committee