

Curriculum Vita

Christopher McAdams
North Lake College
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Education

University of Texas at Austin
Austin, TX
Ph.D. in Chemistry
Dissertation: "Polymers for Deep UV Photoresists"

University of Texas at Austin
Austin, TX
M.A. in Chemistry
Thesis: "Structure Function Correlation for Deep UV Dissolution Inhibitors"

Texas Christian University,
Fort Worth, TX
B.S. in Chemistry

Teaching Experience

North Lake College, Irving, TX August 2007 – Present
Instructor – Chemistry 1405, 1411, 1412, 2423, 2425
Developed syllabus and overall structure, weekly lab practicum, and administered all grades.

Tarrant County College-Southeast Campus August 2005 – August 2007
Instructor – Chemistry 1406, 1411, 1412
Developed syllabus and overall course structure, and administered all grades.

Tarrant County College-Northwest Campus January 2005 – August 2005
Adjunct Instructor – Chemistry 1406, 1411
Developed syllabus and overall course structure, and administered all grades.

Flower Mound HS- August 2004 – December 2004
Science Teacher: Physics/ Integrated Physics and Chemistry

South Hills HS – August 2003 – August 2004
Science Teacher: Chemistry/ Integrated Physics and Chemistry

Publications and Papers

Tattersall, P. I.; Breslin, D; Grayson, S. M.; Heath, W. H.; Lou, K.; McAdams, C. L.; McKean, D; Rathsack, B. M.; Willson, C. G. "Synthesis and Properties of Diazopiperidiones for Use in Nonchemically Amplified Deep UV Photoresists" Chem. Mater., 2004, 16 (9), 1770-1774.

Leeder, S. M.; McAdams, C. L.; Cockrell, L.; Gagne, M. R. "Partitioning of Organic Substrates into Functionalized, macroporous polymers from fluorosolvents" *Polym. Mat. Sci. Eng.*, 2002, 87, 310-311.

Heath, W. H.; Tattersall, P. I.; McAdams, C. L.; Willson, C. G. "The Rational Design and Synthesis of Photoactive Compounds for Use in the Deep UV" *Polym. Mat. Sci. Eng.*, 2002, 87, 405-406.

Kendall, J.; Desimone, J. M.; Carbonell, R. G.; McAdams, C. L. "Polymers and carbon dioxide containing processes for photoresists and microlithography" *PCT Int. Appl.*, 2002, 49 pp.

McAdams, C. L.; Flowers, D.; Hoggan, E. N.; Carbonell, R. G.; DeSimone, J. M. "All CO₂-Based Processing for 193-nm and 157-nm Photolithography" *Proc. SPIE Int. Soc. Opt. Eng.*, 2001, 4345, 327-334.

McAdams, C. L. Doctoral Dissertation, *Polymers and Photoactive Compounds for Non-Chemically Amplified Deep-UV Photoresists*, The University of Texas at Austin, TX, 2000.

McAdams, C. L.; Yueh, W.; Osborn, B. P.; Willson, C. G. "Synthesis of Comb Poly(4-hydroxystyrene) Using Conventional and 'Living' Free-Radical Polymerization" presented at the March, 2000 ACS Convention in San Francisco, *Polym. Prepr.*, 2000, 41 (1), 946-947.

Flanagin, L. W.; McAdams, C. L.; Hinsberg, W. D.; Sanchez, I. C.; Willson, C. G. "Mechanism of Phenolic Polymer Dissolution: Importance of Acid-Base Equilibria," *Macromolecules*, 1999, 32 (16), 5337-5343.

McAdams, C. L.; Flanagin, L. W.; Henderson, C. L.; Pawloski, A. R.; Tsiartas, P.; Willson, C. G. "Dissolution of Phenolic Polymers in Aqueous Base: The Influence of Polymer Structure" In *Proc. SPIE Int. Soc. Opt. Eng.*, 1998, 3333, 1171-1179.

Flanagin, L. W.; McAdams, C. L.; Tsiartas, P. C.; Henderson, C. L.; Hinsberg, W. D.; Willson, C. G. "Probabilistic Model for the Mechanism of Phenolic Polymer Dissolution" In *Proc. SPIE Int. Soc. Opt. Eng.*, 1998, 3333, 268-277.

McAdams, C. L.; Tsiartas, P.; Willson, C. G. "The Influence of Structure on Dissolution Inhibition for Novolac-Based Photoresists: An Adaptation of the Probabilistic Approach," In *ACS Symposium Series: Polymeric Materials for Micro- and Nano-Patterning*, #706, 1998, 292-305.

McAdams, C. L.; Tsiartas, P.; Willson, C. G. "Structure-Function Correlation Studies of Dissolution Inhibitors for Novolac-Based Photoresists," *Polym. Mat. Sci. Eng.* 1997, 77 (2), 437-438.

Willson, C. G.; Yeuh, W.; Leeson, M. J.; Steinhausler, T.; McAdams, C. L.; Dammel, R. R.; Sounik, J. R.; Aslam, M.; Vicari, R.; Sheehan, M. T. "Non-chemically Amplified 248-nm Resist Materials," *Proc. SPIE Int. Soc. Opt. Eng.* 1997, 3049, 226-237.

McAdams, C. L. Master's Thesis, *Structure-Function Correlation Studies of Dissolution Inhibitors for Novolac-Based Photoresists*, The University of Texas at Austin, Austin, TX, 1996.