

## Christopher S. Mullins

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DOB: Jeffersonville, IN,  
February 16, 1977

EDUCATION: Ph.D., Chemistry  
Advisor: Dr. Craig A. Grapperhaus  
University of Louisville  
Louisville, KY, 40292  
2001-2006

B.S., Chemistry  
Indiana State University  
Terre Haute, IN  
1997-2000

APPOINTMENTS: August 2008-present; Assistant Professor of Chemistry,  
Campbellsville University (KY)

2006-2008; Postdoctoral Research Fellow  
Advisor: Dr. Vincent L. Pecoraro  
University of Michigan Department of Chemistry  
Ann Arbor, MI

### PRIOR TEACHING EXPERIENCE:

#### University of Michigan:

**Chemistry 130:** General Chemistry (Fall 2007)

#### University of Louisville:

**Chemistry 529:** Synthesis and Analysis (Spring 2005)

**Chemistry 527:** Separations and Spectroscopy (Spring 2005)

**Chemistry 344:** Organic II Lab (2004)

**Chemistry 343:** Organic I Lab (2001-02)

**Chemistry 205:** General Chemistry Lab (2001)

**Chemistry 201:** General Chemistry Recitation (2001)

#### Indiana State University:

Tutor: General, Organic, Analytical chemistry courses (1998-2000)

### OTHER EMPLOYMENT:

EnviroDataGroup LLC (2000)  
2520 Regency Road, Lexington, KY 40503  
Analytical Chemist, GC/MS of Water/Soil Contaminants

Sherwin-Williams Company (1998)  
A.W. Steudel Technical Center  
549 E. 115<sup>th</sup> Street, Chicago, IL 60628  
Summer Internship, Water-Based Paint Formulation

HONORS AND AWARDS: **University of Louisville**  
Graduate Incentive Fellowship (2002-03)  
ACS Division of Inorganic Chemistry Travel Award (2003)  
Chemistry TA Lab Safety Award (2001-02, 2004)

**Indiana State University**  
William Bell Chemistry Scholarship (1999-2000)

PROFESSIONAL  
SOCIETIES:

**American Chemical Society**  
2001-present  
Division of Inorganic Chemistry, member  
2002-present

**Kentucky Academy of Science**  
2008-present

PUBLICATIONS:

**Reflections on Small Molecule Manganese Models that Seek to Mimic Photosynthetic Water Oxidation Chemistry.** Mullins, C. S.; Pecoraro, V. L. *Coord. Chem. Rev.* **2008**, 252, 416-443.

**Density functional theory investigations of NiN<sub>2</sub>S<sub>2</sub> reactivity as a function of nitrogen donor type and N-H---S hydrogen bonding inspired by nickel-containing superoxide dismutase**  
Mullins, C. S.; Grapperhaus, C. A.; Kozłowski, P. M. *J. Biol. Inorg. Chem.* **2006**, 11, 617-625.

**Ethyl 1-methylimidazole-2-carboxylate**  
Frye, B.C.; Mashuta, M. S.; Mullins, C. S.; Grapperhaus, C. A.; Buchanan, R.M. *Acta Cryst.* **2006**, E62, o1548-o1549

**Structural comparison of alkylated derivatives of (bmmp-dmed)Ni and (bmmp-dmed)Zn** Grapperhaus, C. A.; Mullins, C. S.; Mashuta, M. S. *Inorg. Chim. Acta* **2005**, 358, (3), 623-632.

**Synthesis and Oxygenation of a Nickel(II) and Zinc(II) Dithiolate: An Experimental and Theoretical Comparison**  
Grapperhaus, C. A.; Mullins, C. S.; Kozłowski, P. M.; Mashuta, M. S. *Inorg. Chem.*, **2004**, 43, 2859-2866.

MEETING PRESENTATIONS:

Mullins, C. S.; Grapperhaus, C. A.; Buchanan, R. M.; Frye, B. C.; Mashuta, M. S. "Synthesis, Reactivity, and Spectroscopy of An Asymmetric (N<sub>3</sub>S)Ni Complex" 60<sup>th</sup> Southeast Regional Meeting of the American Chemical Society (SERMACS), Nashville, TN, November 2008.

Mullins, C. S.; Pecoraro, V. L.; Scarpellini, M.; Gaetjens, J.; Kampf, J. W. "Model Complexes for Mononuclear Manganese Enzymes with N<sub>3</sub> and N<sub>3</sub>O environments" 233rd National ACS Meeting, Chicago, IL, March 2007.

Mullins, C. S.; Grapperhaus, C. A.; Mashuta, M. S. "N<sub>2</sub>S<sub>2</sub> Donor Sets as Models for Metalloenzyme Active Sites," ICBIC 2005, Ann Arbor, MI, August 2005.

Mullins, C. S.; Grapperhaus, C. A.; Mashuta, M. S. "Exploring sulfur oxygenation of nickel and zinc dithiolates," 225<sup>th</sup> National ACS Meeting, New Orleans, LA, March 2003.

Kjonaas, R. A.; Bohman, P. J.; Mullins, C. S. "Volatile and semivolatile chemical components of American Sweet Cicely (*Osmorhiza longistylis* and *Osmorhiza clatoni*)," 219th ACS National Meeting, San Francisco, CA, Undergraduate Research Posters, March 2000.

ORAL  
PRESENTATIONS:

Mullins, C. S. "Synthetic and Theoretical Investigations of Metallothiolate Reactivity," Ohio Inorganic Weekend, University of Cincinnati, Cincinnati, OH, November 2003.