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## PERRY STEPHEN CORBIN (*abbreviated CV*)

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### CONTACT INFORMATION:

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### EDUCATION:

<b>B.S., Chemistry</b>	Kentucky Wesleyan College
<b>Ph.D., Chemistry</b>	University of Illinois at Urbana-Champaign
<b>Postdoctoral Studies</b>	University of Virginia

### PROFESSIONAL EXPERIENCE:

Associate Professor of Chemistry, Ashland University (9/07-Present)  
Assistant Professor of Chemistry, Ashland University (9/01-9/07)  
Postdoctoral Research Associate (9/99-7/01)  
Graduate Research Assistant (8/93-8/99)  
Graduate Teaching Assistant (Organic Chemistry) (8/93-5/95)

### PROFESSIONAL AND HONORARY SOCIETY MEMBERSHIPS:

American Chemical Society (1992)  
A.C.S. Division of Organic Chemistry  
A.C.S. Division of Polymer Chemistry  
Council on Undergraduate Research (2005)  
Phi Lambda Upsilon Honorary Chemical Society (1997)  
Honor Society of Phi Kappa Phi (1995)  
Sigma Zeta Honorary Science Society (1993)  
Kentucky Wesleyan College Order of Oak and Ivy (1993)  
Alpha Chi Scholastic Honorary Society (1992)

### PUBLICATIONS:

Dria, R. D.\*; Cyrus, C. D.\*; Lindner, J. L.\*; Corbin, P. S. *Polymer Preprints (American Chemical Society, Division of Polymer Chemistry)* "Synthesis of Resorcinarene- and Calixarene-Core Polylactide Star Polymers" **2006**, *47*, 601-602.

Corbin, P. S.; Zimmerman, S. C. "Hydrogen-Bonded Supramolecular Polymers. Linear and Network Polymers and Self-Assembling Discotic Polymers" in *Supramolecular Polymers (2<sup>nd</sup> Ed.)*, Taylor and Francis, Boca Raton, 2005, pp. 153-186.

Corbin, P. S.; Lawless, L. J.; Li, Z.; Ma, Y.; Witmer, M. J.; Zimmerman, S. C. "Discrete and Polymeric Self-Assembled Dendrimers. Hydrogen-Bond Mediated Assembly with High Stability and High Fidelity" *Proceedings of the National Academy of Sciences, USA* **2002**, *99*, 5099-5104.

Bender, J. L.; Corbin, P. S.; Fraser, C. L.; Metcalf, D. H.; Richardson, F. S.; Thomas, E. L.; Urbas, A. M. "Site-Isolated, Luminescent Lanthanide Complexes with Biocompatible Polyester Macroligands: Europium-Centered Heteroarm Stars and Nanoscale Assemblies that are Cleavable at the Block Junction" *Journal of the American Chemical Society* **2002**, *124*, 8526-8527.

Fraser, C. L.; Bender, J. L.; Corbin, P. S.; Metcalf, D. H.; Richardson, F. S.; Thomas, E. L.; Urbas, A. *Polymer Preprints (American Chemical Society, Division of Polymer Chemistry)* "Site-Isolated, Luminescent Lanthanide Complexes with Biocompatible Polymeric Ligands" **2002**, *43*, 132-133.

Corbin, P. S.; Zimmerman, S. C.; Thiessen, P. A.; Hawrluk, N. A.; Murray, T. J. "Complexation-Induced Unfolding of Heterocyclic Ureas: Foldamers Equilibrate with Multiply Hydrogen-Bonded Sheetlike Structures" *Journal of the American Chemical Society* **2001**, *123*, 10475-10488.

Corbin, P. S.; Webb, M. P.; McAlvin, J. E.; Fraser, C. L. "Biocompatible Polyester Macroligands: New Subunits for the Assembly of Star-Shaped Polymers with Luminescent and Cleavable Metal Cores" *Biomacromolecules* **2001**, *1*, 223-232.

Smith, A. P.; Corbin, P. S.; Wu, X.; Fraser, C. L. "Synthesis of Metal-Centered Block Copolymers by a Convergent Coordination Approach" *PMSE Preprints (American Chemical Society, Division of Polymeric Materials: Science and Engineering)* **2001**, *84*, 88-89.

Corbin, P. S.; Zimmerman, S. C. "Hydrogen-Bonded Supramolecular Polymers" in *Supramolecular Polymers*; Ciferri, A., Ed.; Marcel-Dekker: New York, 2000, 147-176.

Corbin, P. S.; Zimmerman, S. C. "Complexation-Induced Unfolding of Heterocyclic Ureas: Formation of a Hydrogen-Bonded, Sheetlike Heterodimer" *Journal of the American Chemical Society* **2000**, *122*, 3779-3780.

Zimmerman, S. C.; Corbin, P. S. "Heteroaromatic Modules for Self-Assembly Using Multiple Hydrogen Bonds" in *Molecular Self Assembly: Organic versus Inorganic Approaches*; Structure and Bonding, Vol. 96; Fujita, M., Ed.; Springer-Verlag: New York, 2000, 63-94.

Johnson, R. M.; Corbin, P. S.; Ng, C.; Fraser, C. L. "Poly(methyl methacrylates) with Ruthenium Tris(bipyridine) Cores via NiBr<sub>2</sub>(PR<sub>3</sub>)<sub>2</sub>-Catalyzed Atom Transfer Radical Polymerization (ATRP)" *Macromolecules* **2000**, *33*, 7404-7412.

Corbin, P. S.; McAlvin, J. E.; Webb, M. P.\*\*; Shenoy, S.\*\*; Fraser, C. L.; "Biocompatible Macroligands: New Subunits for the Assembly of Metal-Containing Polymers" *Polymer Preprints (American Chemical Society, Division of Polymer Chemistry)* **2000**, *41*, 1199-1200.

Fraser, C. L. Wu, X.; Smith, A. P.; Corbin, P. S. "Polymeric Metal Complexes: A Chelation Approach to Architectural Diversity in Macromolecular Synthesis" *Polymer Preprints (American Chemical Society, Division of Polymer Chemistry)* **2000**, *41*(1), 388-389.

Smith, A. P.; Corbin, P. S.; Fraser, C. L. "An Improved Synthesis of Hydroxymethyl Bipyridines" *Tetrahedron Letters* **2000**, *41*(16), 2787-2789.

Kamieth, M.; Burkert, U.; Corbin, P. S.; Dell, S. J.; Zimmerman, S. C.; Klärner, F.-G. "Molecular Tweezers as Synthetic Receptors: Molecular Recognition of Electron Deficient Aromatic Substrates by Chemically Bonded Stationary Phases" *European Journal of Organic Chemistry* **1999**, *11*, 2741-2749.

Corbin, P. S.; Zimmerman, S. C. "Self-Association without Regard to Prototropy. A Heterocycle That Forms Extremely Stable Quadruply Hydrogen-Bonded Dimers" *Journal of the American Chemical Society* **1998**, *120*, 9710-9711.

Meier, M. S.; Corbin, P. S.; Vance, V. K.; Clayton, M.; Mollman, M.; Poplawski, M. "Synthesis of Hydrogenated Fullerenes by Zinc/Acid Reduction" *Tetrahedron Letters* **1994**, *35*(32), 5789-5792.

## SELECTED PRESENTATIONS:

Goudy, V. A.\*; Corbin, P. S. "Synthesis and Self-Organization of Four-Armed, Calixarene-Core Polylactide/Polyethylene Glycol Star Block Copolymers" presented at the 241<sup>st</sup> National Meeting of the American Chemical Society: Anaheim California, March 2011.

Il'Giovine, Z. J.\*; Weaver, T. L.\*; Goudy, V. A.\*; Corbin, P. S. "Synthesis and Self-Organization of Resorcinarene-Core Polylactide/Polyethylene Glycol Star Block Copolymers" presented at the 241<sup>st</sup> National Meeting of the American Chemical Society: Anaheim California, March 2011.

Corbin, P. S. "The Synthesis and Study of Calixarene and Resorcinarene-Core Star Polylactides" presented at the 53rd Central Region Meeting of the American Chemical Society: Dayton Ohio, May 2010.

Moga, K. A.\*; Dria, R. D.\*; Goudy, B. A.\*; Corbin, P. S. "The Synthesis and Thermal Properties of Resorcinarene and Calixarene-Core Polylactides" presented at the 239<sup>th</sup> National Meeting of the American Chemical Society: San Francisco California, March 2010.

Wood, D. R.\*; Dria, M. G.\*; Corbin, P. S.; Mohney, B. K.; Corbin, R. W. "A.C.S. at Ashland University: Focus on campus outreach" presented at the 239<sup>th</sup> National Meeting of the American Chemical Society: San Francisco California, March 2010.

Corbin, P. S. "Molecular Architecture: A Writing-Intensive, Non-Majors' Course Focusing on Molecular Structure and Spectroscopy" presented at the 233<sup>rd</sup> National Meeting of the American Chemical Society; Chicago Illinois, March 2007.

Dria, R. D.\*; Goudy, B. A.\*; Corbin, P. S. "Synthesis and Study of Calixarene-Core Polylactide Star Polymers and Related Amphiphilic Block Copolymers" presented at the 233<sup>rd</sup> National Meeting of the American Chemical Society; Chicago, Illinois, March 2007.

Goudy, B. A.\*; Dria, R. D.\*; Corbin, P. S. "Synthesis and Characterization of Resorcinarene-Core Polylactide Star Polymers with Cleavable Arms" presented at the 233<sup>rd</sup> National Meeting of the American Chemical Society; Chicago, Illinois; March 2007.

Corbin, P. S. "Molecular Architecture: A Non-Majors Course Focusing on Molecular Structure, Spectroscopy, and Synthesis" presented at the 38<sup>th</sup> Central Region Meeting of the American Chemical Society; Frankenmuth Michigan, May, 2006.

Dria, R. D.\*; Cyrus, C. D.\*; Lindner, J. L.\*; Corbin, P.S. "Synthesis of Resorcinarene- and Calixarene-Core Polylactide Star Polymers" presented at the 231<sup>st</sup> National Meeting of the American Chemical Society; Atlanta, Georgia; March, 2006.

Corbin, P. S. "The Design and Synthesis of Supramolecular Polymers" presented to the Wooster Ohio Local Section of the American Chemical Society; Ashland, Ohio, April, 2005 (Invited Presentation).

Corbin, P. S.; McAlvin, J. E.; Webb, M. P.; Shenoy, S.; Fraser, C. L.; "Biocompatible Macroligands: New Subunits for the Assembly of Metal-Containing Polymers" presented at the 220th National Meeting of the American Chemical Society; Washington, D. C., August, 2000.

Corbin, P. S.; Zimmerman, S. C. "A Novel Tautomeric Building Block for Supramolecular Construction" presented at the 215th National Meeting of the American Chemical Society, Dallas, Texas; April, 1998.

Corbin, P. S. "Novel Hydrogen-Bonding Building Blocks for Supramolecular Construction" presented at the Institute of Organic Chemistry at the University of Essen, Germany; November, 1998 (Invited Presentation).

*\*Undergraduate co-author/presenter from Ashland University*