KYLE A. WILLIAMS

THE UNIVERSITY OF TEXAS AT AUSTIN
DEPARTMENT OF CHEMISTRY AND BIOCHEMISTRY
1 UNIVERSITY STATION, A5300
AUSTIN, TX 78712
OFFICE: 512.471.4174

2907 BEANNA ST. APT. A
AUSTIN, TX 78705
CELL: 281.748.8644
EMAIL: kyle.williams@mail.utexas.edu
WEBSITE: http://bielawski.cm.utexas.edu/

EDUCATION

The University of Texas at Austin	Ph.D., Organic Chemistry	December 2009 (expected)
Trinity University	B.S., Chemistry (with Honors)	May 2004

RESEARCH EXPERIENCE

Fall 2004 - Present
THE UNIVERSITY OF TEXAS AT AUSTIN
Department of Chemistry and Biochemistry
Graduate Research Assistant (Advisor: Professor Christopher W. Bielawski)
Dissertation Title: *Novel N-Heterocyclic Carbene Architectures for the Synthesis and Application of Structurally Dynamic Materials*

Spring 2002 - Spring 2004
TRINITY UNIVERSITY
Department of Chemistry
Undergraduate Research Assistant (Advisor: Professor Nancy S. Mills)
Thesis Title: *Methyl- and Phenyl-Substituted Indenylidene Dications: Variations In Anti-Aromaticity As a Result of Substituent Position*

TEACHING EXPERIENCE

Summer 2007 - Fall 2008
THE UNIVERSITY OF TEXAS AT AUSTIN
Research Mentor
Supervised two undergraduate students and two high school students in a research lab setting

Fall 2004 - Present
THE UNIVERSITY OF TEXAS AT AUSTIN
Teaching Assistant
Courses: Organic Chemistry I, Organic Chemistry II, Organic Chemistry Lab, Macromolecular Chemistry

Fall 2003 - Spring 2004
TRINITY UNIVERSITY
Teaching Assistant
Courses: Organic Synthesis Lab, Inorganic Synthesis Lab

SKILLS

Chemistry: Gel Permeation Chromatography, Controlled Radical Polymerizations, Spin Coating, Profilometry, Multinuclear Magnetic Resonance Spectroscopy, Gas Chromatography, Air-Free Schlenk Techniques, Inert Gas Drybox, Mass Spectrometry, Thermal Gravimetric Analysis, Differential Scanning Calorimetry, Viscometry, FT-IR, UV-Vis-NIR, Cyclic Voltammetry, Fluorimetry, Scanning Electron Microscopy

Computer: ChemDraw, Spartan, Mercury, Microsoft Office (Word, PowerPoint, Excel and Publisher), Adobe Acrobat and Photoshop, Macromedia Dreamweaver

PUBLICATIONS

4. **Kyle A. Williams**, Daniel R. Dreyer and Christopher W. Bielawski "The Underlying Chemistry of Self-Healing Materials" *MRS Bull.* **2008**, *33*, 759-765.

3. **Kyle A. Williams**, Andrew J. Boydston and Christopher W. Bielawski "Main-Chain Organometallic Polymers: Synthetic Strategies, Applications and Perspectives" *Chem. Soc. Rev.* **2007**, *36*, 729-744.

2. **Kyle A. Williams**, Andrew J. Boydston and Christopher W. Bielawski "Towards Electrically Conductive, Self-Healing Materials" *J. R. Soc. Interface* **2007**, *4*, 359-362.

1. Andrew J. Boydston, **Kyle A. Williams** and Christopher W. Bielawski "A Modular Approach to Main-Chain Organometallic Polymers" *J. Am. Chem. Soc.* **2005**, *127*, 12496-12497.

PREPRINTS AND PRESENTATIONS

4. **Kyle A. Williams**, Andrew J. Boydston and Christopher W. Bielawski "Towards electrically-conductive materials with self-healing capabilities" *Polym. Prepr. (Am. Chem. Soc., Div. Polym. Chem.)* **2008**, *49*, 981-982.

3. Christopher W. Bielawski, **Kyle A. Williams** and Andrew J. Boydston "Synthesis and applications of structurally-dynamic metallopolymers based upon N-heterocyclic carbenes" *Polym. Prepr. (Am. Chem. Soc., Div. Polym. Chem.)* **2007**, *48*, 545-546.

2. Donald W. Carpenetti, **Kyle A. Williams** and Francine Cheng "Effects of methyl-substitution on the color of indenylidene anions: Correlation between P-HMO analysis and visible spectroscopy. Abstracts of Papers, 228th ACS National Meeting, Philadelphia, PA, United States, August 22-26, 2004.

1. **Kyle A. Williams**, Nancy S. Mills, Francine Cheng and Donald W. Carpenetti "Methyl-substituted indenylidene dications: Variations in anti-aromaticity as a result of substituent position. Abstracts of Papers, 227th ACS National Meeting, Anaheim, CA, United States, March 28-April 1, 2004.

AWARDS AND AFFILIATIONS

2004	American Institute of Chemists Award
2003-Present	American Chemical Society

REFERENCES

Christopher W. Bielawski, Ph.D.
University of Texas at Austin
Department of Chemistry and Biochemistry
1 University Station, A5300
Austin Texas, 78712
Phone: 512-232-3839
Email: bielawski@cm.utexas.edu

Nancy S. Mills, Ph.D.
Trinity University
Department of Chemistry
One Trinity Place
San Antonio Texas, 78212-7200
Phone: 210-999-7317
Email: nmills@trinity.edu

John A. Colapret, Ph.D.
University of Texas at Austin
Department of Chemistry and Biochemistry
1 University Station, A5300
Austin, TX 78712
Phone: 512-471-0495
Email: jcolapret@cm.utexas.edu