

## Joseph S. Ward III, Ph.D.

joseph\_ward@rockford.edu

<http://www.joseph-ward.info>

### DEPARTMENT ADDRESS:

Rockford College  
5050 E. State St.  
Rockford, IL 61108  
(815) 394-5095  
FAX: (815) 394-5166

### RESIDENCE:

Deleted for Web Publishing

### EDUCATION:

#### **Doctor of Philosophy - Organic Chemistry, August 2002**

Michigan State University – East Lansing, MI 48824

Dissertation title: “Total Synthesis of the Proposed Structure of Amphidinolide A”

*Advisor: Professor Robert E. Maleczka, Jr. (maleczka@cem.msu.edu)*

#### **Bachelor of Science in Chemistry (Cum Laude), May 1996**

Lawrence Technological University - Southfield, MI 48075

*Research Advisor: Professor Anthony F. Sky (sky@ltu.edu)*

### EXPERIENCE:

#### **Assistant Professor (August 2002 to Present)**

Rockford College – Rockford, IL 61108

- Taught Organic Chemistry I (Chem 205) and associated lab.
- Taught multiple sections of General Chemistry I Lab (Chem 105L)
- Currently teaching Organic Chemistry II (Chem 206) and Aspects of Organic and Biochemistry (Chem 132).

#### **Instructor (Summer 2002)**

Michigan State University – East Lansing, MI 48824

- Taught Organic Chemistry I (MSU CEM251) during a six-week accelerated summer term.

#### **Graduate Assistant (1996 – 2002)**

Michigan State University – East Lansing, MI 48824

- Developed synthetic processes for the total synthesis of amphidinolide A, a naturally occurring antileukemic macrolactone, including work with auxiliary directed aldol condensations and alkylations along with other metal mediated processes.
- Investigated processes toward the synthesis of oxygenated tetraortho-substituted biaryl compounds, for a collaborative toxicology project, including work with several transition metal mediated cross-coupling reactions.
- Responsible for training and maintenance of Maleczka group laboratory equipment, instruments (Cap GC, Prep GC, React IR<sup>®</sup>, Polarimeter, HPLC, MPLC, etc.) and associated computer systems.
- Responsible for laboratory safety and hazardous waste disposal for the Maleczka group. Developed and implemented methods for recording hazardous waste quantities that were acceptable to both departmental researchers and regulatory agencies.
- Designed and implemented a web-based chemical inventory control database. Also was responsible for routine maintenance of group computer hardware and software and made recommendations for new computer related purchases.

**EXPERIENCE (continued):**

**Teaching Assistant (1996 – 1999)**

Michigan State University - East Lansing, MI 48824

- Awarded *merit level teaching assistant* as one of the top 10% of graduate assistants in the Department of Chemistry.
- Taught advanced level organic labs including synthesis of various compounds and identification of various unknown organic molecules by chemical and spectroscopic methods. Responsible at various times for instrument setup and maintenance (GC, IR, and associated computers)

**Chemistry Laboratory Assistant (1994 – 1996)**

Lawrence Technological University - Southfield, MI 48075

- Responsible for the upkeep of the chemical stockroom including reagent preparation, chemical inventory management, glassware loan management, and glassware washing.

**PROFESSIONAL MEMBERSHIP AND SERVICE:**

Member – American Chemical Society (1992 – Present)

Member – Council on Undergraduate Research (2002 – Present)

Member – AAUP Rockford College Local Section (2002 – Present)

Member – MSU Chemistry Departmental Safety Committee (1997 – 2002)

Member – MSU Science Theatre (Outreach Program) (1996 – 2000)

- Web Design Committee

**HONORS AND AWARDS:**

Nominated for MSU College of Natural Science Excellence in Teaching Award (1998)

Merit Level Teaching Assistant, Michigan State University (1998)

Stephenson Foundation Scholarship, Lawrence Tech. University (1995 – 1996)

ACS Outstanding Student in Analytical Chemistry, Lawrence Tech. University (1995)

ACS Outstanding Student in Organic Chemistry, Lawrence Tech. University (1994)

Lawrence Technological University Dean's Honor Roll (1994 – 1996)

Lawrence Technological University Trustee Scholarship (1992 – 1995)

**PUBLICATIONS:**

1. Maleczka, R. E., Jr.; Terrell, L. R.; Geng, F.; Ward, J. S., III; "Total Synthesis of Proposed Amphidinolide A via a Highly Selective Ring-Closing Metathesis" *Org. Lett.* **2002**, *4*, 2841-2844.
2. Terrell, L.R.; Ward, J.S., III; Maleczka, R.E., Jr. "Synthetic Studies Toward Amphidinolide A: Synthesis of Fully Functionalized Subunits" *Tetrahedron Lett.* **1999**, *16*, 3097.

**PRESENTATIONS:**

1. Ward, J.S., III; Terrell, L.R.; Geng, F.; Maleczka, R.E., Jr. "Synthetic Studies Toward Amphidinolide A" 222<sup>nd</sup> ACS National Meeting, Chicago, IL, August 26-30, 2001; ORGN-229.
2. Ward, J.S., III; Terrell, L.R.; Geng, F.; Maleczka, R.E., Jr. "Advances in the Total Synthesis of Amphidinolide A" 37<sup>th</sup> National Organic Chemistry Symposium, Montana State University, Bozeman, MT, June 10-14, 2001; Abstract 216.
3. Maleczka, R.E., Jr.; Terrell, L.R.; Ward, J.S., III "Advances in the Total Synthesis of Amphidinolide A" 218<sup>th</sup> ACS National Meeting, New Orleans, LA, August 22-26, 1999; ORGN-551.
4. Terrell, L.R.; Ward, J.S., III; Maleczka, R.E., Jr. "Advances in the Total Synthesis of Amphidinolide A" 26<sup>th</sup> Annual NOBCChE Conference, San Diego, CA, April 5-10, 1999.
5. Terrell, L.R.; Ward, J.S., III; Maleczka, R.E., Jr. "A Synthetic Approach to Amphidinolide A: The Application of Novel Metal-mediated Methods" 25<sup>th</sup> Annual NOBCChE Conference, Dallas, TX, April 13-18, 1998.
6. Maleczka, R.E., Jr.; Ward, J.S., III; Terrell, L.R. "A Synthetic Approach to Amphidinolide A: A Novel Macrolactone with Anti-Leukemic Activity", International Symposium on Cellular and Molecular Mechanisms of Carcinogenesis and Mutagenesis, Michigan State University, East Lansing, MI, September 12-13, 1997.
7. Ward, J.S., III; Sky, A.F. "Economical Synthesis of Bisphenol A Dimethacrylate" Undergraduate Regional Detroit Chemistry Event, Wayne State University, Detroit, MI, March 1995.
8. Ward, J.S., III; Sky, A.F. "The Economical Synthesis of a Polymerization Cross-Linker" Great Lakes College Chemistry Conference, Michigan State University, East Lansing, MI, March 1995.