

CURRICULUM VITAE

Matthew Edward Dudley

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Professional Objective

A challenging career in an industrial setting performing syntheses, characterizations, and process improvements of high value organic chemicals; the ideal position will offer a diverse and creative environment including the opportunity to work and develop with a team that is one of the best in the fine chemical industry.

Educational Background

2002- 2009 Ph.D., **Organic Chemistry** (major); Physical Chemistry (minor); University of Wisconsin-Milwaukee; Milwaukee, WI
1998 BS, Chemistry (ACS Professional Emphasis) and Biology; University of Wisconsin-Oshkosh; Oshkosh, WI
1994 BA, German Languages and Literatures; University of Denver; Denver, CO

Special Honors and Awards

- 2007 UW-Milwaukee Summer Faculty Research Assistantship
- 2006 Outstanding Teaching Assistant Award
- UW-Milwaukee Chancellor's Fellowship, 2002-2008

- Three Awards through Aldrich Chemical Company (see Experience) 1998-2002
- 1997 Collaborative Internship awarded by Aldrich Chemical Company during senior year at UW-Oshkosh

- UW-Oshkosh Dean's List Fall Semester, 1997
- UW-Oshkosh Chemistry Alumni Research Award, 1998
- Honors Fall and Spring Semesters, 1996-1998
- UW-Oshkosh Summer Undergraduate/Faculty Collaborative Research Grant, 1997

- Phi Sigma Iota Foreign Language Honor Society, admitted formally at University of Denver, 1993
- Zertifikat: Deutsch als Fremdsprache (DaF; German as a foreign language), certified by the Goethe Institut in Berlin, Germany, 1993.

Publications

1. **Matthew E. Dudley**, M. Monzur Morshed, and M. Mahmum Hossain "CONVENIENT PREPARATION OF 3-ETHOXYCARBONYL BENZOFURANS FROM SALICYLALDEHYDES AND ETHYL DIAZOACETATE" *Organic Syntheses*, **2009**, *86*, 172-180.
2. Ronald D. Theys, **Matthew E. Dudley**, M. Mahmum Hossain "Recent chemistry of the η^5 -cyclopentadienyl dicarbonyl iron anion" *Coordination Chemistry Reviews*, **2009**, *253* (1-2), 180-234.
3. **Matthew E. Dudley**, M. Monzur Morshed, M. Mahmum Hossain, "A Convenient Method of Synthesizing 3-Ethoxycarbonyl Benzofurans from Salicylaldehydes and Ethyl Diazoacetate", *Synthesis*, **2006**, 1711.
4. Amano, R.S., MohanDas, P.M., Jose Martinez Lucci, Krishna S. Guntur, M., M. Mahmum Hossain, Frank Laib, **Matt Dudley**, M. Monzur Morshed, and James Lingle, "Soil Remediation By Using Heated Soil Vapor Extraction Technology," *Proceedings of EPRI MGP Symposium* **2007**, p.64.
5. Straus, Daniel A.; Morshed, M. Monzur; **Dudley, Matthew E.**; Hossain, M. Mahmum "μ-Chlorobis(cyclopentadienyl)(dimethylaluminum)-μ-methylene-titanium" *e-EROS Encyclopedia of Reagents for Organic Synthesis* **2005** John Wiley & Sons, Ltd., Chichester, UK <http://www3.interscience.wiley.com/cgi-bin/mrwhome/104554785/HOME>
6. **Dudley, M.E.**; Morshed, Md. M.; Brennan, C.L.; Islam, M.S.; Ahmad, M.S.; Atuu, M.-R.; Bransteeter, B.; Hossain, M.M. "Acid-Catalyzed Reactions of Aromatic Aldehydes with Ethyl Diazoacetate: An Investigation on the Synthesis of 3-Hydroxy-2-arylacrylic Acid Ethyl Esters" *Journal of Organic Chemistry* **2004**, *69*(22), 7599-7608.
7. Mahmoud, I.Y.; Paulson, J.R.; **Dudley, M.**; Patzlaff, J. S.; Al-Kindi, A.Y.A. "Secretory proteins in the reproductive tract of the snapping turtle, *Chelhydra serpentina*" *Comparative Biochemistry and Physiology, Part A* **2004**, *139*(4), 487-494.

Seminar Presentations

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| 2006 | 37th Great Lakes Regional Meeting of the American Chemical Society, Milwaukee, WI: Bronsted Acid Catalyzed Reactions of Salicylaldehydes to Benzo[b]furan-3-Ethyl Ester |
| 2005 | UW-Oshkosh: Acid-Catalyzed Reactions of Aromatic Carbonyl Compounds with Ethyl Diazoacetate: Synthesis of 3-Hydroxy-2-arylacrylic Acid Ethyl Esters |
| 2004 | UW-Milwaukee: Supramolecular Chemistry of Dendrimers: Aspects in Catalysis |
| 1998 | UW-Oshkosh: Development and Scale-up of 3-Amino-1-propanesulfonic Acid |

Poster Presentations

- 2003-2008 UW-Milwaukee Annual Student Awards Day, Milwaukee, WI
2007 233rd ACS National Meeting, Chicago, IL
2004 36th Annual Great Lakes ACS Regional Meeting, Peoria, IL
228th ACS National Meeting, Philadelphia, PA
Keulks Symposium, UW-Milwaukee, Milwaukee, WI
UW Chemistry Faculties Meeting, UW-Milwaukee, Milwaukee, WI
1998 Oshkosh Inorganic Poster Presentation, Oshkosh, WI
1997 UW-Oshkosh Chemistry Research Poster Presentation, Oshkosh, WI

Experience

- 2008 - PadanaPlast USA collaboration performed rapid turnaround project for largest North American PEX-supplier. Developed multi-university collaboration; completing project and delivering on all goals within ten days. Project represented \$60M in sales.
- 2010 - Lecturer (Faculty), Department of Chemistry, Marquette University, first semester organic chemistry course
- 2010 - Lecturer (Faculty), Department of Chemistry, UW-Rock County, second semester organic chemistry lecture and laboratory
- 2002 - 2009 Teaching Assistant/Dissertator (Faculty), Department of Chemistry and Biochemistry, UW-Milwaukee
- Taught consistently Fall, Spring, and Summer semesters excepting Summer 2007.
 - Consistently received excellent marks from both peer and student evaluations
 - Graded for upper division courses in Graduate level Thermodynamics 1 and 2
 - Assisted in grading, proctoring, advising, tutoring, laboratory and discussion instruction a minimum of 20 hours/week in addition to research. Experienced in all lower level courses of undergraduate chemistry.
 - Experienced in upper level undergraduate courses concerning Organic Chemistry, Physical Chemistry, and Nursing Chemistry.
- 2005 - 2007 Collaborated in interdisciplinary research with UW-Milwaukee's Engineering Department (Soil Remediation) and Biology Department (Metabolites of Acetobacter)
- 2004 - 2009 Coordinated research projects for Aldrich Chemical Company while at UW-Milwaukee
- 2002 - 2009 Grant and proposal writing (NSF, NIH, and DHS). Performed research, proofing, formatting, literature searching, and technical assistance for Dr. M. Mahmum Hossain (Advisor).
- 2002 - 2009 Trained over 10 undergraduate and graduate level researchers. Introduced techniques concerning large scale synthesis, no D NMR, HPLC, safety, equipment repair/maintenance, and lowering of bulk chemical inventory costs.

- 1998 - 2002 Chemist, Aldrich Chemical Company, Inc., Sheboygan Falls, WI
- Promoted from Associate Chemist to Chemist, November, 1999
 - Lead chemist for GMP production of *trans*-capsaicin, 2002
 - Awarded by company for process improvement of Aphton (anti-pancreatic cancer intermediate), 2001
 - Awarded by company for process improvements concerning large scale development of sodium cyanoborohydride, 1999
 - Pro 2 Employees Award for safety: zero chemical incidents, zero worker injuries, and zero OSHA violations over one year period, 1999
 - In charge of IPT lab, Pro 2 glassware, and cGMP tank farm solvents, 1998-2002
 - cGMP certified in procedures and protocol concerning APIs and pharmaceutical intermediates, 1998-2002
 - Training of over 20 chemists and operators concerning SOPs, cGMP, scale-up, safety, and operations
 - Interim supervisor of Pro 2 building 2nd shift for one year, 2000
 - Familiar with risk management and active participant in rectifying incidents at Aldrich Chemical's large scale Pro 2 facility
 - Furthered graduate study at UW-Milwaukee under Aldrich Chemical's Continuing Education Program, 1998-2002
- 1998 Advanced Organic Laboratory I Assistant Instructor, UW-Oshkosh
1999 Chemistry Tutor and program initiator for undergraduates, UW-Oshkosh
- 1997 Internship Aldrich Chemical Company, Inc.
1997 Organic Lab Assistant (NMR instruction), UW-Oshkosh
1996-1998 Stockroom Assistant, UW-Oshkosh
1994-1996 Technician and Group Leader (Wave and Wash systems) Electronic Assembly division of Plexus Corporation, Neenah, WI

Affiliations

ACS (1998-current), SAACS (1996-1998, President in 1997), IEEE (2008-2009)

References

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| Professor M. Mahmum Hossain, Ph.D. University of Wisconsin - Milwaukee Professor of Chemistry | 414-341-5800 |
| Richard Ricciardi, Ph.D. Sigma-Aldrich-Fluka Corporation (SAFC) Principal Scientist | 920-459-0879 |
| Professor James M. Cook, Ph.D. University Wisconsin - Milwaukee Distinguished Professor of Chemistry | 414-524-2375 |
| Christopher Ross Padanoplast USA, Inc. Scientist (Research and Development) | 847-285-6668 |