

AMANDA M. NIENOW

Professor
Gustavus Adolphus College
Department of Chemistry
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EDUCATION

- 2001-2005 **Ph.D., Chemistry**, *University of Minnesota, Minneapolis, MN*
Chemistry Major and Nanoparticle Science and Engineering Minor
Advisors: Drs. Jeffrey T. Roberts and Michael R. Zachariah
Thesis Title: “*Surface Reactions of Size-Selected Nanoparticles*”
- 1997-2001 **Bachelor of Arts, Chemistry**, *Saint Mary’s University, Winona, MN*
Advisor: Dr. Roger W. Kugel
Thesis Title: “*Systematic Test of the Full Multiple Spawning (FMS) Method for Photochemical Dynamics and Comparison to Trajectory Surface Hopping and Converged Quantum Mechanics*”

EXPERIENCE

- 2023-2026 **Co-Chair Department of Chemistry**, *Gustavus Adolphus College, St. Peter, MN*
2015-2020
- 2018–Present **Professor of Chemistry**, *Gustavus Adolphus College, St. Peter, MN*
- Spring 2021 **Visiting Professor of Chemistry**, *Pepperdine University, Malibu, CA*
- 2013-2018 **Associate Professor of Chemistry**, *Gustavus Adolphus College, St. Peter, MN*
- 2007-2013 **Assistant Professor of Chemistry**, *Gustavus Adolphus College, St. Peter, MN*
- 2006 **Postdoctoral Fellow**, *Purdue University, West Lafayette, IN*
Advisors: Drs. Chad Jafvert and Inez Hua (Civil and Environmental Engineering)
Project Title: “*Photocatalytic Decomposition of Organic Pollutants*”
- 2004-2005 **Chemistry Teaching Intern**, *University of Minnesota, Minneapolis, MN*
- Fall 2004 **RSEC Fellow (Visiting Professor)**, *Viterbo University, La Crosse, WI*
- 2004 **“Practicum for Future Faculty”**, *Preparing Future Faculty Program, University of Minnesota and Macalester College*

GRANTS, funded

- 2020 National Science Foundation (NSF) IUSE Grant: Examining the Effects of Training Undergraduate Chemistry Students How to Deliberate, \$599,297
- 2017 Presidential Faculty-Student Collaboration Grant (with B Courteau '18), \$8400
- 2017 NSF RUI: Determination of the Kinetic Expression and Mechanism of the Photochemical Degradation of Dicamba, \$217,675
- 2013 Université Blaise Pascal Chercheur invite (Visiting Researcher) Grant, ~\$4800
- 2013 NSF Catalyzing New International Collaborations Supplement: Systematic Analysis of the Photodegradation of Pesticides on Heterogeneous Surfaces: The Photolysis of Imidazolinone Herbicides on Two Midwest Crops, \$13,500
- 2012 National Science Foundation RUI: Systematic Analysis of the Photodegradation of Pesticides on Heterogeneous Surfaces: The Photolysis of Imidazolinone Herbicides on Two Midwest Crops, \$139,500
- 2012 Kranz Endowment Fund, Gustavus Adolphus College, \$4000
- 2012 Howard Hughes Medical Institute Undergraduate Student Research Award, \$4000
- 2012 Sigma Xi Undergraduate Research Grant (awarded to Megan Crow '14; faculty advisor, Amanda Nienow), \$337
- 2011 Howard Hughes Medical Institute Undergraduate Student Research Award, \$4000
- 2011 Presidential Faculty-Student Collaboration Grant (with Maja Johnson '13), \$8400
- 2011 Sigma Xi Undergraduate Research Grant (awarded to Derrick Berndt '11; faculty advisor, Amanda Nienow), \$500
- 2009 Undergraduate Research Grant, Minnesota River Board, \$500
- 2009 Research, Scholarship, and Creativity Grant, Gustavus Adolphus College, \$2200
- 2009 Howard Hughes Medical Institute Undergraduate Student Research Award, \$4000
- 2008 Gover Research in Chemistry Endowment, Gustavus Adolphus College, \$4000
- 2007 Undergraduate Summer Research Program (Merck/AAAS), \$60,000 (PIs: Kelly and Russell, co-PIs: Bur, Carlin, Dahlseid, Elias, Lammert, Nienow, O'Brien)
- 2007 Sigma Xi Undergraduate Research Grants (awarded to Emily Pelton '08 and Mallory Richards '09; faculty advisor, Amanda Nienow), \$500 each
- 2007 Research Site for Educators in Chemistry (RSEC) Grant, \$19,272

GRANTS, not funded

- 2023 National Science Foundation (NSF) S-STEM Grant: STEMconnect: Connecting Gustavus Students to Scholarships, Community, Campus Support, Research Opportunities, and Career Development, \$2,491,434
- 2022 National Science Foundation (NSF) S-STEM Grant: STEMconnect: Connecting Gustavus Students to Scholarships, Community, Campus Support, Research Opportunities, and Career Development, \$1,493,666
- 2016 (NSF) RUI: Determination of the Kinetics Expression and Mechanism of the Photochemical Degradation of Dicamba in Solution and on Surfaces, \$196,639
- 2012&2014 US-AID Partnerships for Enhanced Engagement in Research: The Fate of Selected Pesticides and Veterinary Drugs Under Solar Light and Environmental Relevant (i.e., Moroccan) Conditions: Impact on Water Quality, \$100,560 (co-PI)
- 2009 Cottrell Science Scholar Award, Research Corporation (Resubmitted November 2009; originally submitted November 2008; \$45,000)
- 2007 Faculty Start-up Award (Camille and Henry Dreyfus Foundation), Photochemistry of Emerging Agrochemical Pollutants. (\$30,000)

AWARDS and FELLOWSHIPS

- 2025 Janet Anderson Award from the Midstates Consortium for Math and Sciences
- 2018 Gustavus Kendall Center for Engaged Learning Diversity, Equity, and Inclusion Professional Development grant (\$2000 for Association of American Colleges & Universities (AACU) Project Kaleidoscope (PKAL) STEM leadership workshop)
- 2016 Gordon Research Conference Chair's Fund (travel award for first time Gordon Conference presenters at primarily undergraduate institutions)
- 2014-2019 American Chemical Society Committee on Education Student Chapter Award, Honorable Mention (A Nienow as advisor)
- 2013, 2022 American Chemical Society Committee on Education Student Chapter Award, Commendable (A Nienow as advisor)
- 2011 Sigma Xi Chapter of Excellence Award (A Nienow as Chapter President)
- 2005-2006 Dissertation Fellowship, *University of Minnesota*
- 2004 Top Chemistry Presentation Award, *University of Minnesota Chemistry Dept.*
- 2002-2004 NSF Integrative Graduate Education and Research Traineeship (IGERT)
- 2001 National Science Foundation Graduate Fellowship: Honorable Mention

GUSTAVUS SERVICE WORK

College-wide

Director of Undergraduate Research	2024-Present
Nobel 2026 Committee Member	2025-2026
Nobel 2025 Committee Member and Speaker Host	2024-2025
First Generation Advisory Group	2024-Present
Signature Experience Curriculum Working Group	2024-2025
Academic Program Working Group	2022-2023
Research Advisory Council	2021-2022
First Year Research Experience Director	2021-2024
Academic Petitions Committee	2021-2023
Personnel Committee	2021-2024
KCEL New Faculty Programming Faculty Associate	2018-2019
Faculty Development Committee; chair 2018-2019	2008-2009; 2017-2019
Career Development Search Committee	2017
Nobel 2018 Committee Member and Speaker Host	2017-2018
Fellowships Advisor	2014-2018
Pre-Chemical Engineering Advisor	Fall 2008-Present
Strategic Action Planning Academic Working Group	Fall 2015- Spring 2016
Summer Freshman Registration	June 2008, 2011-13, 2015-19, 2022
Third Year Review Committee	Fall 2014-Spring 2017
Curriculum Committee	Spring 2013
Academic Operations Committee	Fall 2011-Spring 2013
Undergraduate Research Working Group	Fall 2010-Spring 2011
Sigma Xi Chapter President	Fall 2010-Spring 2013
Gustie Greeter Faculty Advisor	Fall 2009, 2013
Director of Campus Safety Search Committee Member	Spring 2009
Admission Events	Spring 2008-Present
Nobel 2009 Committee Member and Speaker Host	2008-2009
Associate Dean of Students Search Committee Member	Spring 2008
Faculty Committee on Student Life	Fall 2007-Spring 2010

Division/Department

Chemistry Club Co-Faculty Advisor	Fall 2009-Present
Chemistry Department Retreat Co-coordinator	July 2009, 2016-2019, 2024-2025
Chemistry Seminar Coordinator	2008- 2009; Spring 2015, 2022-2023, 2024
Chemistry Department Library Liaison	Fall 2007-Spring 2009
Faculty search committees	Fall 2007-Present

PROFESSIONAL MEMBERSHIPS

American Chemical Society

PROFESSIONAL/COMMUNITY SERVICE WORK

Career and Occupational Mentoring for the Professional Advancement of Science Students (COMPASS) Workshop participant, May 19-21, 2021

NSF Grant Reviewer 2009, 2011, 2013, 2016-18, 2020-21, 2022-2023,2026

Peer Reviewer for Journal of Agricultural and Food Chemistry; 2013-Present

Toxicological and Environmental Chemistry; International Journal of Environmental Analytical Chemistry; Journal of Photochemistry and Photobiology B; Environmental Science and Technology; Water, Air, and Soil Pollution; Science of the Total Environment; Journal of Chemical Education, Royal Advances for Chemistry (RSC) Advances

National Association for Fellowship Advisors co-panelist June 2015

American Chemical Society Student Chapter Report Reviewer June 2012, 2013
Chemistry in the Library, St. Peter Public Library Oct 2009, 2010, 2011

Water Resources Center (St. Paul, MN) Grant Reviewer Dec 2008

Panel on Hiring at PUIs at (MACTLAC) Annual Meeting Oct 2007

STUDENT RESEARCH COLLABORATORS at GUSTAVUS ADOLPHUS COLLEGE

Brandon Hanson ('28)	ay 2025-2026
Hayley Youngberg ('27)	ay 2025-2026
Jayden Ruffolo ('26)	ay 2025-2026
Ross Hebel ('26)	su2024
Beau Supan ('26)	su2024
Taylor Johnson ('24), Medical Scribe	j2023
Hassan Almusawy ('24)	su2021, f2021
Elisabeth Kray ('23), Graduate Student, U of U of WI - Madison	su2021, 2022-2023
Annika Silverberg ('22), Graduate Student, U of Arizona	su2021, f2021
Jessica Schwartz ('23) MD/PhD Student, U of WI - Madison	j2020, su2020
Jenna Kotz ('21), Graduate Student, University of CO	su 2019
Eli McMahan ('22), High School Music Teacher	su 2019
Maheemah Bokhorhee ('21), Master's (U of MN 2023)	ay 2018-2019, su2020
Kaitlyn Gruber ('21), Graduate Student, U of WI-Madison	su2018, ay2018-20, su2020
Hannah Goecke ('20)	j2018, j2019, j2020
Aly Freeman ('20)	f2017
Brittany Courteau ('18), Ph.D. (Iowa State 2023)	su2017, j2018
Linh Chu ('19), Ph.D. student, Icahn School of Med, Mt Sinai, NY	su2017, j2018
Trent Blom ('17), Pharmacist (U of Minnesota)	f2016, s2017
Aaron Peterson ('18), Orthopedic PA, Great Plains Health	ay 2015-2018
Evan Larson ('16), Ph.D., (U of Iowa 2022)	j2016
Chandra Bouma ('18), Medical student, U of MN	su2015
Logan Beukelman ('16), Doctorate of Chiropractic (2021)	su 2015
Rayna (McLouth) Feldkamp ('16), Pilot Plant Technician, Cargill	f2014, j2015, j 2016
Scott Anderson ('17), Entrepreneur	su2014-2016, f2014
Alexa Pederson ('16), D.O/M.S., (Nova Southeastern U 2021)	su2013, s2014, su2014
Amy Christiansen ('15), Ph.D., (UC-Irvine 2020)	su2013, f2013, su2014
Riley Lass ('14), Multimedia Designer, Discovery Benefits	su2012
Megan Crow ('14), M.D., (U of MN 2020)	su2011, s2012, su2012
Maja Johnson ('13), M.D., (U of MN 2019)	f2010, su2011, j2012
Spencer Bonnerup ('12), M.D., (St. George's U 2018)	su2009
Jonathan Kasprisin ('12), US Army Officer	s2009, j2011

Derrick Berndt ('11), Nursing Assistant, Regions Hospital	f2009, s/f2010, j/s2011
Kendra Kesty ('11), M.D., (Wake Forest U 2015); OB/GYN	su2008
Jonna Berry ('10), Ph.D., (U of IA 2015); Iowa CSI Lab	j2009
Anna Bauer ('10), M.S. Education/U of MN, High School Teacher	s2010
Matthew Chroust ('10), DDS, University of California	s2007, f2007
Drew Corbett ('10), Ph.D., (U of MN 2016), IBM	f2009, s2010
Alison Dittmer ('10), M.D. (U of MN 2014), Orthopedic Surgery	su2009
Annie Opseth ('10), M.S. (USC 2014), EPA Duluth, MN	su2009, f2009, s2010
Ryan Espy ('09), Ph.D. (Purdue 2014), Medtronic	su2008, f2008, s2009
Megan Olson ('09), DDS, Creighton University	s2009
Mallory Richards ('09), M.S. (U of MN 2011); St. Paul Academy	s2007, su2007, f2008
Amanda (Staker) Houk ('09) Ph.D. (U of KS 2015); SRNL	f2007,s/f2008, j/s2009
Tyler Wakefield ('09), Syngenta, Minneapolis, MN	f2008, j2009, s2009
Emily Pelton ('08), Ph.D. ((U of MN 2013)	j2008, s2008

COURSES TAUGHT at GUSTAVUS ADOLPHUS COLLEGE

SIG 370 Signature Experience: Research	Summer 2025, Spring 2026
CHE 360/361 Physical Chemistry 2 with Lab	Spring 2025
CHE 260/261 Physical Chemistry 1 with Lab	Fall 2024, 2025
CHE 258 Inorganic Chemistry 1 Lab	Spring 2024
CHE 107 Principles of Chemistry	Fall 2009, 2010, 2014; Spring 2022
CHE 106 Introduction to Chemical Principles	Fall 2021
CHE 371 Physical Chemistry 1 (with Lab)	2007-2009, 2011-2012, 2016-2019, 2021-2023
CHE 372 Physical Chemistry 2 (with Lab)	2007, 2008, 2013, 2017-2020, 2022-2023
CHE 399 Chemistry Seminar	2008-2009, 2015-2016, 2022-2023, 2024
CHE 107 Principles of Chemistry Lab	Fall 2010, 2014, 2015, 2023
FTS 100 Consumer Chemistry	Fall 2015
CHE 246 Environmental Chemistry with lab	Spring 2015, 2016
CHE 125 Science and Public Policy	Jan 2012, 2013
CHE 344 Special Topics: Computational Chemistry	Spring 2010
CHE 139 Chemistry and Crime	Jan 2010
CHE 102 Chemistry in Context	Spring 2009, 2010, 2011
CHE 141 Organic Chemistry I Lab	Springs 2007- 2012
CHE 102 Chemistry in Context Lab	Springs 2007-2011

PROFESSIONAL DEVELOPMENT and CONFERENCE PARTICIPATION

2004- 2023	National American Chemical Society Meetings
March 2023	Judge, Certificate of Merit, Division of Environmental Chemistry, American Chemical Society National Meeting
June 2017	Instructional Technology Boot Camp, Gustavus Adolphus College
Spring 2017	Purposeful Advising/Supervising Workshop Series, Gustavus Adolphus College
June 2015	First Term Seminar Training Workshop, Gustavus Adolphus College

- June 2014 National Association for Fellowship Advisors New Advisor Orientation, Des Moines, Iowa
- 2008-Present Teachers Talking and Shop Talk attendance, Gustavus Adolphus College
- Nov 2011 Undergraduate Research Symposia in the Physical Sciences, Mathematics, and Computer Science, Midstates Consortium for Math and Sciences, Chicago, IL
- 2009-Present Kendall Center Teaching and Learning Workshops, Gustavus Adolphus College
- July 2008 New Faculty Workshop, Midstates Consortium for Math and Sciences
- July 2005 Center for Workshops in the Chemical Sciences: Materials Science and Nanotechnology for Chemists, Beloit College, Beloit, WI
- June 2004 Nanoparticles: Synthesis, Characterization, and Properties; Duisburg, Germany; Sponsored by SFB 445 (University of Duisburg-Essen) and NSF IGERT and 7th International Conference on Nanostructured Materials, Wiesbaden, Germany
- Oct 2003 American Association for Aerosol Research 22nd Annual National Conference

PUBLICATIONS (⁺undergraduate researcher) *Citation Info from Google Scholar*

1. Conners, P., Drury, S.A.M., Nienow, A., Wysocki, L., Knobloch, K., Joseph, R., “Reframe Political Talk as Discursive Civic Engagement,” in “Encouraging College Students’ Democratic Engagement in an Era of Political Polarization”, ed. McGowan-Kirsch, A.M. (Lanham, MD: Lexington Books, 2025), 107-122.
2. “An Integrated Approach to Career and Professional Development at Gustavus Adolphus College”, Bur, S., Nienow, A., in Professional Mentoring Programs for Science Students: Career Mentoring for Students in the Physical Sciences., 19-28, 2024, [DOI:10.1021/bk-2024-1470.ch003](https://doi.org/10.1021/bk-2024-1470.ch003)
3. Drury, S.A.M., Knobloch, K., Conners, P., Nienow, A., Anderson, C., Aghababian, S., Imholte, J., Wysocki, L. “Implementing an Environmental Contaminants Deliberation Module in General Chemistry”, *J. Chem. Ed.* 2024, *101*(8), 3564-3569. DOI: [10.1021/acs.jchemed.4c00273](https://doi.org/10.1021/acs.jchemed.4c00273)
4. Sleiman, M., Nienow, A., Richard, C. “Environmental Photochemistry on Plants: Recent Advances and New Opportunities for Interdisciplinary Research”, *Photochem and Photobio Sciences.* 2022, *21*(8), 1497-1510. DOI: [10.1007/s43630-022-00228-w](https://doi.org/10.1007/s43630-022-00228-w) Cited once as of April 2023
5. Gruber, K. ⁺, Courteau, B. ⁺, Bokhoree, M. ⁺, Kotz, J. ⁺, McMahon, E. ⁺, Nienow, A. Photolysis of the herbicide dicamba in aqueous solutions and on corn (*Zea mays*) epicuticular waxes", *Environ. Sci. Processes Impacts.* 2021, *23*(5), 786-802. DOI: [10.1039/d1em00058f](https://doi.org/10.1039/d1em00058f). Cited 3 Times as of April 2023

6. Anderson, S.C.⁺, Chu, L.⁺, Bouma, C.⁺, Beukelman, L.⁺, McLouth, R. ⁺, Larson, E. ⁺, Nienow, A. “Comparison of the photodegradation of imazethapyr in aqueous solution, on epicuticular waxes, and on intact corn (*Zea mays*) and soybean (*Glycine max*) leaves”, *J. Env. Sci. Health, B.* 2018, *54*, 129-137. DOI: [10.1080/03601234.2018.1511400](https://doi.org/10.1080/03601234.2018.1511400). *Cited 6 Times as of April 2023*
7. Anderson, S.C.⁺, Christiansen, A.⁺, Peterson, A.⁺, Beukelman, L. ⁺, Nienow, A., “Statistical analysis of the photodegradation of imazethapyr on the surface of extracted soybean (*Glycine max*) and corn (*Zea mays*) epicuticular waxes”, *Environ. Sci. Processes Impacts.* 2016, *18*, 1305-1315. DOI: [10.1039/c6em00401f](https://doi.org/10.1039/c6em00401f). *Cited 4 Times as of April 2023*
8. Christiansen, A.⁺, Peterson, A.⁺, Anderson, S.C.⁺, Lass, R.⁺, Johnson, M⁺, Nienow, A. “Analysis of the Photodegradation of the Imidazolinone Herbicides Imazamox, Imazapic, Imazaquin, and Imazamethabenz-methyl in aqueous solution.” *J. Agri. Food Chem.* 2015, *63(50)*, 10768-10777. *Cited 10 Times as of April 2023*
9. Espy, R.⁺, Pelton, E.⁺, Opseth, A.⁺, Kasprisin, J.⁺, Nienow, A. M., “Photodegradation of the Herbicide Imazethapyr in Aqueous Solution: Effects of Wavelength, pH, and Natural Organic Matter (NOM) and Analysis of Photoproducts.” *J. Agri. Food Chem.* 2011, *59(13)*, 7277-7285. DOI: [10.1021/acs.jafc.5b04663](https://doi.org/10.1021/acs.jafc.5b04663). *Cited 40 Times as of April 2023*
10. Nienow, A.M., Hua, I. Poyer, I.C., Jafvert, C.T., “Hydrolysis and Hydrogen Peroxide-Assisted UV Photodegradation of 3-chloro-1,2-propanediol.” *Chemosphere.* 2009, *75(8)*, 1015-1020. *Cited 18 Times as of April 2023*
11. Nienow, A.M., Hua, I. Poyer, I.C., Bezares-Cruz, J.C., Jafvert, C.T., “Multifactor Statistical Analysis of the H₂O₂-Enhanced Photodegradation of Nicotine and Phosphamidon.” *Ind. Eng. Chem. Res.* 2009, *48(8)*, 3955-3963. *Cited 14 Times as of April 2023*
12. Nienow, A.M., Bezares-Cruz, J.C., Poyer, I.C., Hua, I., Jafvert, C.T., “Hydrogen Peroxide-Assisted UV Photodegradation of Lindane.” *Chemosphere.* 2008, *72(11)*, 1700-1705. *Cited 82 Times as of April 2023*
13. Nienow, A.M., Roberts, J.T., “Chemical Vapor Deposition of Zirconium Oxide on Aerosolized Silicon Nanoparticles.” *Chem. Mater.* 2006, *18(23)*, 5571-5577. *Cited 19 Times as of April 2023*
14. Liao, Y-C., Nienow, A.M., Roberts, J.T. “Surface Chemistry of Aerosolized Nanoparticles: Thermal Oxidation of Silicon.” *J. Phys. Chem. B.* 2006, *110(12)*, 6190-6197. *Cited 27 Times as of April 2023*
15. Nienow, A. M., Roberts, J. T. “Heterogeneous Chemistry of Carbon Aerosols”. *Ann. Rev. Physical Chem.* 2006, *57*, 105-128. *Cited 88 Times as of April 2023*
16. Nienow, A.M., Roberts, J.T., Tanke, R. “Forming Multi-Campus Partnerships.” A Conference On Integrating Research into Undergraduate Education: The Value Added. Washington, D.C. November 18-19, 2004. (Conference Proceedings)

17. Nienow, A.M., Roberts, J.T., Zachariah, M.R. "Surface Chemistry of Nanometer-Sized Aerosol Particles; Reactions of Molecular Oxygen with 30 nm Soot Particles as a Function of Oxygen Partial Pressure." *J. Phys. Chem. B.* 2005, *109(12)*, 5561-5568. *Cited 23 Times as of April 2023*
18. Hunt, S.W., Brauer, C.S., Craddock, M.B., Higgins, K.J., Nienow, A.M., Leopold, K.R. "Microwave Observation of H₃N-SO₃···H₂O Using a Concentric, Dual-Injection Nozzle Source." *Chem. Phys.* 2004, *305(1-3)*, 155-164. *Cited 11 Times as of April 2023*
19. Hack, M.D., Wensmann, A.M., Truhlar, D.G., Ben-Nun, M., Martinez, T.J. "Comparison of full Multiple Spawning, trajectory surface hopping, and converged quantum mechanics for electronically nonadiabatic dynamics." *J. Chem. Phys.* 2001, *115(3)*, 1172-1186. *Cited 160 Times of April 2023*

INVITED SEMINARS (+undergraduate researcher)

1. Nienow, A.M., Kray, E.⁺, "Photochemistry of Imazethapyr and Dicamba", Institut de Chimie de Clermont-Ferrand, France. July 6, 2022
2. Nienow, A.M., "Photochemistry of Imazethapyr in/on Different Matrices." Bowdoin College, Brunswick, ME. Nov 17, 2017
3. Nienow, A.M., "Photochemistry of Herbicides on Plant Surfaces." MN Section American Chemical Society. Bethany Lutheran College, Mankato, MN. Oct 11, 2016
4. Nienow, A.M., Espy, R.,⁺ Pelton, E.,⁺ Richards, M.,⁺ Staker, A.,⁺ Wakefield, T.⁺ "Abiotic Degradation of Emerging Agrochemicals." University of Minnesota-Duluth, Oct 17, 2008.
5. Nienow, A.M., Pelton, E.,⁺ Richards, M.⁺ "Abiotic Degradation of Emerging Agrochemicals: A Case Study of Nicosulfuron and Flumetsulam." University of Iowa, Oct 22, 2007.

PRESENTATIONS/POSTERS (+undergraduate researcher)

1. Nienow, A.M., Bur, S. "Leveraging the COMPASS workshop to develop an accessible, authentic professional development plan for all chemistry students at a small liberal arts college." American Chemical Society National Meeting, Indianapolis, IN. March 2023.
2. Wysocki, L., Nienow, A.M., Joseph, R. "Implementing deliberation as science communication in the chemistry classroom across institutions". American Chemical Society National Meeting, Indianapolis, IN. March 2023.
3. Nienow, A.M., Conners, P. "Facilitating Deliberation in Chemistry Classrooms." Biennial Conference on Chemical Education, Purdue University, West Lafayette, IN, August 2022.
4. Nienow, A.M., "Analysis of the Photodegradation of the Imidazolinone Herbicides in Aqueous Solution". Gordon Research Conference, Environmental Sciences: Water, Holderness, NH. June 2016. (Poster Presentation)

5. Nienow, A.M., Christiansen, A.,⁺ Peterson, A.,⁺ Anderson, S.,⁺ McLouth, R.,⁺ “Photolysis of herbicides absorbed to plant surfaces: Imazethapyr on corn and soybean waxes”. 250th American Chemical Society National Meeting, Boston, MA. Aug 2015. (Poster Presentation)
6. Nienow, A.M., Christiansen, A.,⁺ Peterson, A.,⁺ “Photolysis on Plant Surfaces: Imazethapyr on Corn and Soybean Waxes.” EmCon 2014: Fourth International Conference on Occurrence, Fate, Effects, and Analysis of Emerging Contaminants in the Environment, Iowa City, IA. (Poster Presentation)
7. Nienow, A.M., Crow, M.,⁺ Johnson, M.,⁺ “Photodegradation of the herbicide Imazethapyr on soybean and corn wax.” 244th American Chemical Society National Meeting, Philadelphia, PA. (Poster presented on both August 20 and 21st, 2012.)
8. Nienow, A.M., “What happens to pesticides sprayed on crops?”, Faculty Shop Talk, Gustavus Adolphus College, St. Peter, MN. March 5, 2010 (Oral Presentation)
9. Nienow, A.M., Espy, R.,⁺ Pelton, E.,⁺ Staker, A.,⁺ “Byproducts and kinetics of imazethapyr hydrolysis and photolysis.” 237th American Chemical Society National Meeting, Salt Lake City, UT. (Poster presented on both March 23 and 24th, 2009.)
10. Nienow, A.M., Espy, R.,⁺ Pelton, E.,⁺ Richards, M.,⁺ Staker, A.⁺ “Photolytic Degradation Pathways of Emerging Agrochemicals.” 236th American Chemical Society National Meeting, Philadelphia, PA. August 20, 2008. (Oral Presentation)
11. Nienow, A.M., Poyer, I.C., Bezares-Cruz, J. C., Hua, I., Jafvert, C.T., “Photocatalytic Degradation of Lindane in Potable Water Systems.” 232nd American Chemical Society National Meeting, San Francisco, CA. September 13, 2006. (Poster Presentation)
12. Nienow, A.M., Liao, Y.-C., Roberts, J.T. “Surface Reactions of Silicon Nanoparticles.” 230th American Chemical Society National Meeting, Washington, DC. August 31, 2005. (Oral Presentation)
13. Nienow, A. M., Liao, Y-C, Gresback, R.,⁺ Roberts J.T., “Oxidation of Silicon Nanoparticles.” High Temperature Plasma Laboratory Meeting, University of Minnesota. February 18, 2005. (Oral Presentation)
14. Nienow, A.M., Parham, G.,⁺ Backstrand, K.M., Roberts, J.T. “Research Site for Educators in Chemistry (RSEC): A Relationship Between the University of Minnesota and Viterbo University.” Midwestern Association of Chemistry Teachers in Liberal Arts Colleges Annual Meeting, Dubuque, IA. October, 2004. (Poster Presentation)
15. Nienow, A.M., Roberts, J.T., Ajo, H. “Oxidation of Size-Selected Soot Nanoparticles.” 228th American Chemical Society National Meeting, Philadelphia, PA. August 24, 2004. (Oral Presentation)

16. Nienow, A.M., Roberts, J.T, Zachariah, M.R. “Oxidation of Size-Selected Soot Nanoparticles.” 7th International Conference on Nanostructured Materials, Wiesbaden, Germany. June 21, 2004. (Poster Presentation)
17. Nienow, A.M., Roberts, J.T., Zachariah, M.R. “Oxidation Kinetics of Size-Selected Soot Nanoparticles.” SFB-IGERT Workshop, Duisburg, Germany. June 25-26, 2004. (Poster Presentation)
18. Nienow, A.M., Roberts, J. T., Zachariah, M. R., “Oxidation Kinetics of Size-Selected Soot Nanoparticles.” American Association of Aerosol Research National Meeting, Anaheim, CA. October, 2003. (Poster Presentation)

RESEARCH STUDENT PRESENTATIONS/POSTERS (⁺undergraduate researcher)

1. Silverberg, A⁺, Kray, E.⁺, Almusawry, H.⁺, Nienow, A.M, “Detection of dicamba in the gas phase using various sorption materials and GC-MS”. Celebration of Creative Inquiry, Gustavus Adolphus College, St. Peter, MN, May 6, 2022. (Poster Presentation)
2. Silverberg, A⁺, Kray, E.⁺, Nienow, A.M., “Detection of dicamba in the gas phase using various sorption materials and GC-MS”. Minnesota Chromatography Forum, Bloomington, MN, May 5, 2022. (Oral Presentation)
3. Silverberg, A⁺, Kray, E.⁺, Almusawry, H.⁺, Nienow, A.M, “Detection of dicamba in the gas phase using various sorption materials and GC-MS”. Spring 2022 American Chemical Society National Meeting, San Diego, CA, March 2022. (Poster Presentation)
4. Schwartz, J.⁺, Bokhoree, M.⁺, Gruber, K.⁺, Nienow, A.M., “Air Sampling and GC/MS Method Development to Detect and Quantify the Herbicide Dicamba”. Spring 2021 American Chemical Society National Meeting, Virtual, April 2021. (Poster Presentation)
5. Gruber, K.,⁺ Courteau, B.,⁺ Nienow, A.M., “Photochemical Degradation of the Herbicide Dicamba on Heterogeneous Surfaces”. Celebration of Creative Inquiry, Gustavus Adolphus College, St. Peter, MN, May 3, 2019. (Poster Presentation)
6. Gruber, K.,⁺ Courteau, B.,⁺ Nienow, A.M., “Photochemical Degradation of the Herbicide Dicamba on Heterogeneous Surfaces”. Spring 2019 American Chemical Society National Meeting, Orlando, FL, April 1, 2019. (Poster Presentation)
7. Lenczycki, L.,⁺ Nienow, A.M., “First Annual Chemistry Night: An Exploratory Opportunity for High School Students to Learn College-level Wet Lab and Instrumentation Techniques”. Spring 2019 American Chemical Society National Meeting, Orlando, FL, April 1, 2019. (Poster Presentation)
8. Courteau, B.,⁺ Nienow, A.M., “Determination of the Kinetic Expression of the Herbicide Dicamba in Aqueous Solution”. 2017 Undergraduate Research Symposia in the Physical Sciences, Mathematics, and Computer Science, Midstates Consortium for Math and Sciences, U of Chicago, Nov 3-4, 2017. (Poster Presentation)

9. Nienow, A.M., Christiansen, A.,⁺ Peterson, A.,⁺ “Photodegradation of imidazolinone herbicides and pesticides in aqueous solution and on plant surfaces”. 248th American Chemical Society National Meeting, San Francisco, CA. (Poster presented on both August 10 and 14, 2014.)
10. Christiansen, A.,⁺ Peterson, A.,⁺ Nienow, A.M., “Imidazolinone Herbicides: Photodegradation in Aqueous Solution and on Waxes”. Celebration of Creative Inquiry, Gustavus Adolphus College, St. Peter, MN, May 2, 2014. (Poster Presentation)
11. Christiansen, A.,⁺ Peterson, A.,⁺ Nienow, A.M., “Imidazolinone Herbicides: Photodegradation in Aqueous Solution and on Waxes”. 2013 Undergraduate Research Symposia in the Physical Sciences, Mathematics, and Computer Science, Midstates Consortium for Math and Sciences, U of Chicago, Oct 25-26, 2013. (Poster Presentation)
12. Nienow, A.M., Crow, M.,⁺ Johnson, M.,⁺ “Photodegradation of the herbicide Imazethapyr on soybean and corn wax.” 244th American Chemical Society National Meeting, Philadelphia, PA. (Poster presented on both August 20 and 21st, 2012.)
13. Crow, M.,⁺ Johnson, M.,⁺ Nienow, A. “Photodegradation of the Herbicide Imazethapyr on Corn and Soybean Wax”, Celebration of Creative Inquiry, Gustavus Adolphus College, St. Peter, MN, May 4, 2012. (Poster Presentation)
14. Johnson, M.,⁺ Crow, M.,⁺ Nienow, A. “Abiotic Degradation of Imazamethabenz-methyl”, Celebration of Creative Inquiry, Gustavus Adolphus College, St. Peter, MN, May 4, 2012. (Oral Presentation)
15. Crow, M.,⁺ Nienow, A. “HPLC Method Development and Verification for the Analysis of Imazamethabenz-methyl”, Sigma Xi Symposium, Gustavus Adolphus College, St. Peter, MN. May 4, 2012. (Poster Presentation)
16. Crow, M.,⁺ Johnson, M.,⁺ Nienow, A. “Photodegradation of the Herbicide Imazethapyr on Corn and Soybean Wax”, 2011 Chemistry Homecoming Symposium, Oct 1, 2011. (Poster presentation)
17. Johnson, M.,⁺ Crow, M.,⁺ Nienow, A. “Abiotic Degradation of Imazamethabenz-methyl”, 2011 Chemistry Homecoming Symposium, Oct 1, 2011. (Poster presentation)
18. Crow, M.,⁺ Johnson, M.,⁺ Nienow, A. “Photodegradation of the Herbicide Imazethapyr on Corn and Soybean Wax”, 2011 Undergraduate Research Symposia in the Physical Sciences, Mathematics, and Computer Science, Midstates Consortium for Math and Sciences, U of Chicago, Nov 4-5, 2011. (Poster Presentation)
19. Johnson, M.,⁺ Crow, M.,⁺ Nienow, A. “Abiotic Degradation of Imazamethabenz-methyl”, 2011 Undergraduate Research Symposia in the Physical Sciences, Mathematics, and Computer Science, Midstates Consortium for Math and Sciences, U of Chicago, Nov 4-5, 2011. (Poster Presentation)

20. Berndt, D.⁺, Nienow, A. “Photolysis of Nicosulfuron and Flumetsulam”, Celebration of Creative Inquiry, Gustavus Adolphus College, St. Peter, MN. May 6, 2011. (Poster Presentation)
21. Opseth, A.⁺, Espy, R.⁺, Nienow, A. “Photochemical Degradation Products of Imazethapyr in Natural Waterways”, Celebration of Creative Inquiry, Gustavus Adolphus College, St. Peter, MN. April 30, 2010. (Poster Presentation)
22. Bonnerup, S.⁺, Olson, M.⁺, Nienow, A. “Photolysis of Imazethapyr on the Cuticle Wax of Corn (*Hyb jubilee*) and Soybeans (*Soya hispida*)”. 2009 Undergraduate Research Symposia in the Physical Sciences, Mathematics, and Computer Science, Midstates Consortium for Math and Sciences, U of Chicago, Nov 6-8, 2009. (Poster Presentation)
23. Bonnerup, S.⁺, Olson, M.⁺, Nienow, A. “Photolysis of Imazethapyr on the Cuticle Wax of Corn (*Hyb jubilee*) and Soybeans (*Soya hispida*)”. Gustavus Adolphus College Fall Research Symposium, St. Peter, MN. September 11, 2009. (Oral Presentation)
24. Espy, R.,⁺ Pelton, E.,⁺ Nienow, A. “Byproducts and kinetics of imazethapyr hydrolysis and photolysis.” Celebration of Creative Inquiry, Gustavus Adolphus College, St. Peter, MN. May 1, 2009. (Poster Presentation)
25. Kesty, K.,⁺ Carlin, J., Elias, E., Nienow, A. “Ecotoxicology of dimethenamid and chlorpyrifos”. Celebration of Creative Inquiry, Gustavus Adolphus College, St. Peter, MN. May 1, 2009. (Poster Presentation)
26. Espy, R.,⁺ Pelton, E.,⁺ Nienow, A.M., “Byproducts and kinetics of imazethapyr hydrolysis and photolysis.” Sigma Xi Symposium, Gustavus Adolphus College, St. Peter, MN. May 1, 2009. (Poster Presentation)
27. Nienow, A.M., Espy, R.,⁺ Pelton, E.,⁺ Staker, A.,⁺ “Byproducts and kinetics of imazethapyr hydrolysis and photolysis.” 237th American Chemical Society National Meeting, Salt Lake City, UT. (Poster presented on both March 23 and 24th, 2009.)
28. Espy, R.,⁺ Nienow, A.: “Photolytic and Hydrolytic Degradation of Imazethapyr.” 2008 Undergraduate Research Symposia in the Physical Sciences, Mathematics, and Computer Science, Midstates Consortium for Math and Sciences, University of Washington in St. Louis, Oct 31-Nov 2, 2008, (Poster Presentation)
29. Kesty, K,⁺ Nienow, A, Carlin, J, and Elias, E.. “Aquatic Ecotoxicology of Photolysed Pesticide Residues.” 2008 Summer Research Fall Symposium, Gustavus Adolphus College, Saint Peter, MN. Sept 2008. (Oral Presentation)
30. Espy, R.,⁺ Nienow, A.M. “Photolytic and Hydrolytic Degradation of Imazethapyr.” MRSEC-SURE/YCC Summer Research Poster Session, Minneapolis, MN. August 7, 2008. (Poster Presentation)

31. Richards, M.,⁺ Pelton, E.,⁺ Nienow, A.M. “Photolytic Degradation Pathways of Flumetsulam, Nicosulfuron, and Imazethapyr.” Celebration of Creative Inquiry, Gustavus Adolphus College, St. Peter, MN. May 2, 2008. (Poster Presentation)
32. Richards, M.,⁺ Nienow, A.M., “Photolysis of Sulfonyl Group Herbicides: Nicosulfuron and Flumetsulam.” Sigma Xi Symposium, Gustavus Adolphus College, St. Peter, MN. May 2, 2008. (Oral Presentation)
33. Pelton, E.,⁺ Nienow, A.M., “Direct and Indirect Photochemical Degradation Pathways of Imazethapyr.” Sigma Xi Symposium, Gustavus Adolphus College, St. Peter, MN. May 2, 2008. (Oral Presentation)
34. Richards, M.,⁺ Pelton, E.,⁺ Nienow, A.M. “Photolytic Degradation Pathways of Flumetsulam, Nicosulfuron, and Imazethapyr.” 235th American Chemical Society National Meeting, New Orleans, LA. April 9, 2008. (Poster Presentation)
35. Richards, M.,⁺ Nienow, A.M. “Photolysis of Sulfonyl Group Herbicides: Nicosulfuron and Flumetsulam.” MRSEC-SURE/YCC Summer Research Poster Session, Minneapolis, MN. August 9, 2007. (Poster Presentation)