

PETER J. ALAIMO, Ph.D.

Professor of Chemistry | College of Science and Engineering

Seattle University | Bannan 611 | 901 12th Avenue, Seattle, WA 98122, USA

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EDUCATION

- | | | |
|------------------------------------|--|------|
| University of California, Berkeley | Ph.D. in Chemistry | 1999 |
| | Dissertation advisor: Prof. Robert G. Bergman | |
| | Dissertation title: Synthetic and mechanistic studies of carbon-hydrogen bond activation by iridium(III) complexes and development of a transition metal catalyzed alkene aziridination reaction | |
| University of Michigan, Ann Arbor | Honors B.S. in Chemistry, Philosophy | 1994 |
| | Thesis advisor: Prof. Brian P. Coppola | |
| | Thesis title: Regiodirecting effects in 1,3-dipolar cycloaddition reactions to münchnones and imidazolium oxides | |

APPOINTMENTS

SEATTLE UNIVERSITY | Chemistry Department | Seattle, WA

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|----------------------------|--------------|
| Professor | 2015–present |
| Associate Professor | 2010–2015 |
| Assistant Professor | 2004–10 |
- Research: Asymmetric catalysis, green & environmental chemistry, bioorganic chemistry

ETH – SWISS FEDERAL INSTITUTE OF TECHNOLOGY | Zürich, Switzerland

- | | |
|---|---------|
| Visiting Professor Institute of Biogeochemistry and Pollutant Dynamics | 2011–12 |
|---|---------|
- Prof. Kris P. McNeill research group, Environmental Chemistry
 - Research: Kinetics of photodegradation of cysteine, cystine, and cysteine-containing peptides

UNIVERSITY OF CALIFORNIA, SAN FRANCISCO (UCSF) | San Francisco, CA

- | | |
|---|---------|
| Postdoctoral Associate Cellular and Molecular Pharmacology, School of Medicine | 1999–04 |
|---|---------|
- Prof. Kevan M. Shokat research group
 - Research: Using chemical genetics to decode the roles of phosphatidylinositol 3-kinases in cellular signaling

RAYCHEM CORPORATION | Menlo Park, CA

- | | |
|-------------------------------|------|
| Summer Research Intern | 1994 |
|-------------------------------|------|
- Research: Synthesis and evaluation of carbon black-doped polymer blends

PUBLICATIONS

Peer-Reviewed Journal Articles (undergraduate co-authors)

(H-index = 14)

20. Balgooyen, S, **Alaimo, P.J.**; Remucal, C.K.; Ginder-Vogel, M. *Environ. Sci. Technol.* **2017**, 51(11), 6053-6062. DOI: [10.1021/acs.est.6b05904](https://doi.org/10.1021/acs.est.6b05904) Structural transformation of MnO₂ during the oxidation of bisphenol A.
19. Chu, C.; Erickson, P.R.; Lundeen, R.A.; Stamatelatos, D.; **Alaimo, P.J.**; Latch, D.E.; McNeill, K.* *Environ. Sci. Technol.* **2016**, 50, 6363-6373. DOI: [10.1021/acs.est.6b01291](https://doi.org/10.1021/acs.est.6b01291) Photochemical and non-photochemical transformations of cysteine with dissolved organic matter.
18. Langenhan, J.M.; McLaughlin, R.P.; Loskot, S.A.; Rozal, L.M.; Clay, M.S.; **Alaimo, P.J.** *J. Carbo. Chem.* **2016**, 35, 106-117. DOI: [10.1080/07328303.2016.1139111](https://doi.org/10.1080/07328303.2016.1139111) Using density functional theory to calculate the anomeric effect in hydroxylamine and hydrazine derivatives of tetrahydropyran.
17. **Alaimo, P.J.**; Langenhan, J.M.; Suydam, I.T. *J. Chem. Educ.* **2014**, 91, 2093-2098. DOI: [10.1021/ed400510b](https://doi.org/10.1021/ed400510b) Aligning the undergraduate organic laboratory experience with professional work: The centrality of reliable and meaningful data.
 - o *Science* **2014**, 346 (6212), 961. | editor's selection highlight
16. Meyer, A.H.; Dybala-Defratyka, A.; **Alaimo, P.J.**; Geronimo, I.; Sanchez, A.; Cramer, C.J.; Elsner, M. *Dalton Trans.* **2014**, 43, 12175-12186. DOI: [10.1039/C4DT00891J](https://doi.org/10.1039/C4DT00891J) Cytochrome P450-catalyzed dealkylation of atrazine by *Rhodococcus* sp. strain NI86/21 involves hydrogen atom transfer rather than single electron transfer.
15. Bonvin, F.; Omlin, J.V.; Rutler, R.; Schweizer, W.B.; **Alaimo, P.J.**; Strathmann, T.; McNeill, K.; Kohn, T. *Environ. Sci. Technol.* **2013**, 47, 6746-6755. DOI: [10.1021/es303777k](https://doi.org/10.1021/es303777k) Direct photolysis of human metabolites of the antibiotic sulfamethoxazole: Evidence for abiotic back-transformation.
14. **Alaimo, P.J.**; Langenhan, J.M.; Tanner, M.; Ferrenberg, S.M. *J. Chem. Educ.* **2010**, 87, 856-861. DOI: [10.1021/ed100207d](https://doi.org/10.1021/ed100207d) Safety teams: An approach to engage students in laboratory safety.
 - o *Chemical & Engineering News* | [article](#) | 4/13/2016
 - o *Chemical & Engineering News* | [blog feature](#) | 7/7/2010
 - o *Journal of Chemical Education* **2010**, 87, 764-765 | editorial highlight
13. **Alaimo, P.J.**; Marshall, A.-L.; Andrews, D.M.; Langenhan, J.M. *Org. Synth.* **2010**, 87, 192-200. DOI: [10.1002/0471264229.os087.21](https://doi.org/10.1002/0471264229.os087.21) 1,3,5-Triacetylbenzene.
12. Marshall, A.-L.; **Alaimo, P.J.** *Chem. Eur. J.* **2010**, 16, 4970-4980. DOI: [10.1002/chem.200903028](https://doi.org/10.1002/chem.200903028). Useful products from complex starting materials: Common chemicals from biomass feedstocks.
 - o [Top 20 most cited Reviews](#) of the past 20 years in *Chemistry—A European Journal*
 - o *Hottest Articles in Green and Sustainable Chemistry* [selection](#) (2010)
11. **Alaimo, P.J.**; Bean, J.C.; Langenhan, J.M.; Nichols, L. *Writing Across the Curriculum Journal* **2009**, 20, 17-32. DOI: [Eliminating lab reports: A rhetorical approach for teaching the scientific paper in sophomore organic chemistry.](#)
 - o *Science* | [podcast highlight](#) | 5/20/2011
10. **Alaimo, P.J.**; O'Brien III, R.; Johnson, A.W.; Slauson, S.R.; O'Brien, J.M.; Tyson, E.L.; Marshall, A.-L.; Ottinger, C.E.; Chacon, J.G.; Wallace, L.; Paulino, C.Y.; Connell, S. *Org. Lett.* **2008**, 10, 5111-5114. DOI: [10.1021/ol801911f](https://doi.org/10.1021/ol801911f) Sustainable synthetic methods: Domino construction of dihydropyridin-4-ones and β -amino esters in aqueous ethanol.
9. **Alaimo P.J.**; Knight, Z.A.; Shokat, K.M. *Bioorg. Med. Chem.* **2005**, 13, 2825-2836. DOI: [10.1016/j.bmc.2005.02.021](https://doi.org/10.1016/j.bmc.2005.02.021) Targeting the gatekeeper residue in phosphoinositide 3-kinases.
 - o *Top 25 Hottest Articles* [selection](#) (Apr.–June 2005)
8. Knight, Z.A.; Chiang, G.G.; **Alaimo, P.J.**; Kenski, D.M.; Ho, C.B.; Coan, K.; Abraham, R.T.; Shokat, K.M. *Bioorg. Med. Chem.* **2004**, 12, 4749-4759. DOI: [10.1016/j.bmc.2004.06.022](https://doi.org/10.1016/j.bmc.2004.06.022) Isoform-specific phosphoinositide 3-kinase inhibitors from an arylmorpholine scaffold.
 - o *Top 25 Hottest Articles* [selection](#) (July–Sept. 2004)
 - o *Top 25 Hottest Articles* [selection](#) (Oct.–Dec. 2004)
7. Wang, H.; Shimizu, E.; Tang, Y.-P.; Cho, M.; Kyin, M.; Zuo, W.; Robinson, D.A.; **Alaimo, P.J.**; Zhang, C.; Morimoto, H.; Zhou, M.; Feng, R.; Shokat, K.M.; Tsien, J.Z. *Proc. Natl. Acad. Sci., USA* **2003**, 100, 4287-4292. DOI: [10.1073/pnas.0636870100](https://doi.org/10.1073/pnas.0636870100) Inducible protein knockout reveals temporal requirement of CaMKII reactivation for memory consolidation in the brain.

6. Shogren-Knaak, M.A.; **Alaimo, P.J.**; Shokat, K.M. *Annu. Rev. Cell Develop. Biol.* **2001**, *17*, 405-433. DOI: [10.1146/annurev.cellbio.17.1.405](https://doi.org/10.1146/annurev.cellbio.17.1.405) *Recent advances in chemical approaches to the study of biological systems.*
5. **Alaimo, P.J.**; Shogren-Knaak, M.A.; Shokat, K.M. *Curr. Opin. Chem. Biol.* **2001**, *5*, 360-367. DOI: [10.1016/S1367-5931\(00\)00215-5](https://doi.org/10.1016/S1367-5931(00)00215-5) *Chemical genetic approaches for the elucidation of signaling pathways.*
4. **Alaimo, P.J.**; Peters, D.W.; Arnold, J.; Bergman, R.G. *J. Chem. Educ.* **2001**, *78*, 64. DOI: [10.1021/ed078p64](https://doi.org/10.1021/ed078p64) *Suggested modifications to a distillation-free solvent purification system.*
3. **Alaimo, P.J.**; Arndtsen, B.A.; Bergman, R.G. *Organometallics* **2000**, *19*, 2130-2143. DOI: [10.1021/om9910064](https://doi.org/10.1021/om9910064) *Alkylolation of iridium via tandem carbon-hydrogen bond activation/decarbonylation of aldehydes: Access to complexes with tertiary and highly hindered metal-carbon bonds.*
2. **Alaimo, P.J.**; Bergman, R.G. *Organometallics* **1999**, *18*, 2707-2717. DOI: [10.1021/om990255p](https://doi.org/10.1021/om990255p) *Modeling the proposed intermediate in alkane carbon-hydrogen bond activation by Cp*(PMe₃)Ir(Me)OTf: Synthesis and stability of novel organometallic Ir(V) complexes.*
1. **Alaimo, P.J.**; Arndtsen, B.A.; Bergman, R.G. *J. Am. Chem. Soc.* **1997**, *119*, 5269-5270. DOI: [10.1021/ja970245k](https://doi.org/10.1021/ja970245k) *Synthesis of tertiary and other sterically demanding alkyl- and aryl-complexes of iridium by aldehyde C-H bond activation.*

Books & Book Chapters

2. Latch, D.E.; Whitlow, W.L.; **Alaimo, P.J.** "Incorporating an environmental research project across three simultaneous STEM courses: A collaboration between ecology, organic chemistry, and instrumental analysis students." in *Science Education and Civic Engagement: The Next Level. ACS Symposium Series*, Vol. 1121; Sheardy, R.D.; Burns, W.D., Eds.; American Chemical Society: Washington, DC, 2012; pp 17-30. (peer-reviewed) DOI: [10.1021/bk-2012-1121.ch002](https://doi.org/10.1021/bk-2012-1121.ch002)
1. **Alaimo, P.J.**; Daniels, D.S.; Pallin, D.J.; Johnson, A.; Volpe, C. "MCAT Organic Chemistry Review" *The Princeton Review*, 1997. (not peer-reviewed)

RESEARCH GRANTS AND FUNDING

Extramural Research Grants Funded

(total at Seattle University = \$1,200,067)

8. W.M. Keck Foundation | Undergraduate Education Program, Phase II | 2011-13 \$250,000
Launching Science and Civic Engagement Western Network (SCEWestNet): A multi-institutional collaborative effort to promote, support, and sustain college-level science education reform in the western region of the United States. | Co-PI with: W.D. Burns, D. Kraus, A. Shachter, R. Sheardy, L. Duffy, D. Latch, W.L. Whitlow, G. Booth, G. Smith, R. Franco, S. Carroll, M. Ganus, J. Bucki, A. Moodie (multi-university grant; \$19,000 to SU)
7. Research Corporation | Cottrell College Science Award | 2008-10 \$43,218
Enhancing diversity and improving stereoselectivity in the three-component synthesis of dihydropyridin-4-ones.
6. NSF | Major Research Instrumentation (MRI) Grant | 2006-09 \$368,401
Acquisition of a 400 MHz NMR spectrometer for research and research training at Seattle University. Co-PIs: J. Langenhan, R. McLaughlin, J. Meany, D. Smith, K. Kuder
5. Sherman Fairchild Foundation | Scientific Equipment Program | 2005-08 \$497,230
Institutional grant | Author of \$150,000 portion for LC-QQQ
4. Research Corporation | Cottrell College Science Award | 2005-07 \$41,218
Development of tandem indium(0)- / indium(III)-mediated heterocycle syntheses.
3. American Cancer Society | Postdoctoral Fellowship | 2001-03 \$118,000
Decoding phosphatidylinositol 3-kinase-mediated cellular signaling cascades.
2. National Institutes of Health NRSA | Postdoctoral Fellowship | 2000 (declined) \$109,164
Decoding phosphatidylinositol 3-kinase signaling pathways.
1. Susan G. Komen Breast Cancer Foundation | Postdoctoral Fellowship | 2000 \$35,000
Decoding phosphatidylinositol 3-kinase-mediated cellular signaling cascades.

Intramural Research Grants Funded (total = \$170,304)

13. Undergraduate Student Research Award | Hoba Foundation | 2018 \$19,599
Enantioselective synthesis of dihydropyridinones for testing as anti-cancer agents
12. Summer Faculty Fellowship Program | ORSSP & Provost's Office | 2017 \$7,100
Initiating a New Line of Research in Food Chemistry: New Edible Fermentations in Collaboration with Chefs at Lark Restaurant and Applying to Fulbright for Sabbatical Funding
11. Summer Faculty Fellowship Program | ORSSP & Provost's Office | 2013 \$7,100
Photochemical oxidation of amino acid-based biomolecules in surface waters: Writing a research article and a research proposal on environmental chemistry.
10. Murdock College Science Research Program | 2011 \$12,860
Identifying the products of the microbial degradation of atrazine.
9. Assessment Grant | Provost's Office | 2010 \$5,000
Identifying, Assessing, and Strengthening Conceptual Threads in the Chemistry Department. | Co-PIs: J. Langenhan, J. Loertscher, D. Latch, V. Minderhout
8. Dean's Seed Funding | College of Science & Engineering | 2010 \$8,000
Monitoring pyrethroids in the Duwamish River. | Co-PIs: L. Whitlow, D. Latch
7. Supplemental Matching Funds | Provost's Office | 2009 \$60,000
Acquisition of an Agilent LC-QQQ. | Co-PI: D. Latch
6. Assessment Grant | Provost's Office | 2009 \$5,000
Assessing the effectiveness of a novel pedagogical approach for teaching professional-style scientific writing to undergraduates. | Co-PIs: J. Langenhan, J. Loertscher, D. Latch
5. Assessment Grant | Provost's Office | 2008 \$5,700
Assessing the effectiveness of a novel pedagogical approach for teaching professional-style scientific writing to undergraduates. | Co-PIs: J. Langenhan, J. Loertscher, J. Bean, L. Nichols
4. Summer Faculty Fellowship | College of Science & Engineering Dean's Office | 2008 \$7,014
An environmentally benign method for synthesizing N-heterocycles.
3. Summer Faculty Fellowship | College of Science & Engineering Dean's Office | 2007 \$6,633
Synthesis of biologically important heterocycles using sustainable methods.
2. Bannan Foundation Equipment Award | 2006 \$26,819
Acquisition of an organic solvent purification system. | Co-PI: J. Langenhan
1. Summer Faculty Fellowship | College of Science & Engineering Dean's Office | 2005 \$6,265
An environmentally benign method for synthesizing N-heterocycles

Other Financial Support Obtained (total = \$137,794)

5. ETH-Zürich, Sabbatical Funding | 2011–12 \$30,000
Design, synthesis, and testing of novel lumigenic probes for reactive oxygen species.
4. ACS Division of Organic Chemistry Travel Award | 2011 \$600
242nd ACS National Meeting | Denver, CO
3. Gordon Research Conference Travel and Conference Award | 2007 \$1,594
GRC on Heterocyclic Compounds | Newport, RI
2. ACS Division of Organic Chemistry Travel Award | 2007 \$600
234th ACS National Meeting | Boston, MA
1. Novartis Used Laboratory Equipment Donation | 2006 \$105,000

PRESENTATIONS (undergraduates are underlined>

Invited Seminars

	<u>Location</u>	<u>Venue</u>	<u>Seminar Date</u>
30.	UC Berkeley	Chemistry Department, SLAM Seminar Series	Sept. 14, 2015
29.	245 th ACS National Meeting	Undergraduate Research Award Symposium	Apr. 7, 2013
28.	ETH-Zürich, Switzerland	Environmental Chemistry, McNeill Group	July 31, 2012
27.	ETH-Zürich, Switzerland	Environmental Chemistry, McNeill Group	Mar. 6, 2012
26.	ETH-Zürich, Switzerland	Environmental Chemistry, McNeill Group	Oct. 11, 2011
25.	Trinity University	Chemistry Department	Feb. 24, 2011
24.	Sonoma State University	Chemistry Department	Nov. 19, 2007
23.	Willamette University	Chemistry Department	July 20, 2007
22.	Seattle University	Chemistry Department	Jan. 15, 2004
21.	UC Santa Barbara	Chemistry & Biochemistry Department	Jan. 8, 2004
20.	Williams College	Chemistry Department	Jan. 5, 2004
19.	Barnard College	Chemistry Department	Dec. 9, 2003
18.	Oberlin College	Chemistry Department	Nov. 12, 2003
17.	Grinnell College	Chemistry Department	Mar. 6, 2003
16.	Vassar College	Chemistry Department	Jan. 31, 2003
15.	Skidmore College	Chemistry Department	Dec. 16, 2002
14.	College of Wooster	Chemistry Department	Dec. 6, 2002
13.	Harvey Mudd College	Chemistry Department	Dec. 3, 2002
12.	Washington & Jefferson College	Chemistry Department	Nov. 26, 2002
11.	Mount Holyoke College	Chemistry Department	Nov. 19, 2002
10.	Carleton College	Chemistry Department	Nov. 15, 2002
9.	Randolph-Macon College	Chemistry Department	Nov. 12, 2002
8.	Goucher College	Chemistry Department	Oct. 30, 2002
7.	Grinnell College	Chemistry Department	July 14, 2000
6.	UC San Francisco	Pharmaceutical Chemistry, Scanlan Group	May 1999
5.	Stanford University	Biochemistry, Khosla and Hershlag Groups	May 1999
4.	Princeton University	Chemistry, Shokat Group	Apr. 1999
3.	Columbia University	Biochemistry and Molecular Biophysics, Pyle Group	Apr. 1999
2.	Rockefeller University	Biochemistry, O'Donnell Group	Mar. 1999
1.	MIT	Biology Department, Baker Group	Mar. 1999

Conference Presentations (32 undergraduate co-authors)

- P.J. Alaimo**, A. Sanchez, A.L. Sidor, M. Marcotte. *Enantioselective aza-Diels-Alder reactions between Danishefsky's diene and imine dienophiles*. Poster | 18th European Symposium on Organic Chemistry | Marseille, France | July 2013
- P.J. Alaimo**, J.M. Langenhan, I.T. Suydam. *Integrating Professional Training with Organic Chemistry Teaching Labs*. Invited seminar ORGN 7 | 245th ACS National Meeting | New Orleans, LA | Apr. 2013
- P.J. Alaimo**, A.D. Sanchez, M. Marcotte, A.-L. Marshall, C.E. Ottinger, A.L. Sidor, C.E. Southworth. *Efforts toward enantioselective aza-Diels-Alder reactions*. Poster ORGN 694 and SciMix | 242nd ACS National Meeting | Denver, CO | Aug. 2011
- P.J. Alaimo**, J.M. Langenhan, I.T. Suydam. *Thinking like a scientist in the organic chemistry teaching lab: Designing experiments to generate data for analysis and discussion*. Poster CHED 91 and SciMix | 242nd ACS National Meeting | Denver, CO | Aug. 2011
- P.J. Alaimo**, D.E. Latch, W.L. Whitlow, A. Frost, L. Youngquist. *Incorporating an environmental research project across three simultaneous STEM courses: Collaboration between ecology, organic chemistry, and instrumental analysis*. Invited poster | Resources, Energy and Sustainability: A STEM Teaching and Research Symposium | Honolulu, HI | Oct. 2010
- P.J. Alaimo**, D.E. Latch, W.L. Whitlow, J. Berude, A. Frost, L. Youngquist. *Chemistry and ecology of emerging contaminants: measuring concentrations and non-lethal effects of pyrethroid pesticides in an*

- urban estuary*. Invited poster | Resources, Energy and Sustainability: A STEM Teaching and Research Symposium | Honolulu, HI | Oct. 2010
12. **P.J. Alaimo**, A.L. Marshall, C.E. Ottinger. *Efforts toward enantioselective aza-Diels-Alder reactions*. Contributed poster | 16th European Symposium on Organic Chemistry | Prague, Czech Republic | July 2009
 11. **P.J. Alaimo**, J.M. Langenhan. *Professional development for undergraduate science students: Teaching and assessing professional scientific writing*. Contributed seminar | 2008 National CASTL (Carnegie Academy for the Scholarship of Teaching and Learning) Institute: Developing scholars of teaching and learning | Omaha, NE | June 2008
 10. **P.J. Alaimo**, J.M. Langenhan. *Teaching professional writing in an organic chemistry laboratory by abolishing the lab report*. Contributed seminar | 9th Biennial International Writing Across the Curriculum Conference | Austin, TX | May 2008
 9. **P.J. Alaimo**, R.V. O'Brien, A. Johnson, S. Slauson, J. O'Brien, E. Tyson, J. Chacon, L. Wallace, S. Connell. *Development of sustainable synthetic methods: Construction of 4-dihydropyridinones and β -amino esters by domino reactions in aqueous ethanol*. Poster ORGN 532 | 234th ACS National Meeting | Boston, MA | Aug. 2007
 8. J.M. Langenhan, **P.J. Alaimo**, M. Tanner. *Chemical safety teams: an approach for teaching laboratory safety*. Poster CHED 98 | 234th ACS National Meeting | Boston, MA | Aug. 2007
 7. **P.J. Alaimo**, J.M. Langenhan, J. Loertscher. *Teaching students professional writing in organic chemistry lab courses*. Poster CHED 89 | 234th ACS National Meeting | Boston, MA | Aug. 2007
 6. **P.J. Alaimo**, R.V. O'Brien III, A. Johnson, S. Slauson, J. O'Brien, E. Tyson, J. Chacon, L. Wallace, S. Connell. *Sustainable synthetic methods: Construction of 4-dihydropyridinones by domino reactions in aqueous ethanol*. Poster | Gordon Research Conference on Heterocyclic Compounds | Newport, RI | June 2007
 5. **P.J. Alaimo**, Z.A. Knight, K.M. Shokat. *Progress toward the development of allele-specific inhibitors of phosphatidylinositol 3-kinase*. Poster | 226th ACS National Meeting | New York, NY | Sept. 2003
 4. **P.J. Alaimo**, Z.A. Knight, K.M. Shokat. *Using chemical genetics to obtain allele-specific inhibitors of phosphatidylinositol 3-kinase*. Poster | American Society for Cell Biology National Meeting | San Francisco, CA | Dec. 2002
 3. **P.J. Alaimo**, Z.A. Knight, K.M. Shokat. *Using chemical genetics to obtain allele-specific inhibitors of phosphatidylinositol 3-kinase*. Poster | 18th Union of the International Cancer Congress, Cell Biology Division | Oslo, Norway | July 2002
 2. **P.J. Alaimo**, R.G. Bergman. *Synthesis of cationic iridium(V) complexes: Putative intermediates on the C-H activation pathway*. Poster INOR 121 | 216th ACS National Meeting | Boston, MA | Aug. 1998
 1. **P.J. Alaimo**, B.A. Arndtsen, R.G. Bergman. *Using carbon-hydrogen bond activation for the synthesis of tertiary-alkyl iridium complexes*. Contributed seminar INOR 777 | 213th ACS National Meeting | San Francisco, CA | Apr. 1997

Co-authored Conference Presentations Presented by Other Faculty Members

8. S. Balgooyen, **P.J. Alaimo**, M. Ginder-Vogel, C. Remucal. *Oxidative transformation of bisphenol A in the presence of synthetic manganese oxides*. Contributed Poster | Gordon Research Conference on Environmental Sciences: Water | Holderness, NH | June 2016
7. D.E. Latch, W.L. Whitlow, **P.J. Alaimo**. *Analytical chemistry at Seattle University: Academic service-learning, interdisciplinary collaborations, and analysis of environmental contaminants*. Invited Seminar 1610-7 | Pittcon Analytical Chemistry Meeting | Orlando, FL | Mar. 2012
6. D.E. Latch, W.L. Whitlow, **P.J. Alaimo**. *Incorporating an environmental research project across three STEM courses: A collaboration between ecology, organic chemistry, and instrumental analysis*. Seminar CHED 361 | 242nd ACS National Meeting | Denver, CO | Aug. 2011
5. W.L. Whitlow, D. Latch, **P.J. Alaimo**, A. Frost, J. Berude. *Urban chemistry & ecology: Comparing pyrethroid concentrations, aquatic conditions, & benthic invertebrates across a Superfund site*. Seminar | Society of Environmental Toxicology and Chemistry | Portland, OR | Nov. 2010
4. W.L. Whitlow, L. Youngquist, A. Frost, D. Latch, **P.J. Alaimo**. *Urban aquatic contaminants & benthic ecology: Comparing invertebrates, chemical concentrations, and water quality across a Superfund site*. Seminar COS 98-4 | 95th Ecological Society of America Annual Meeting | Pittsburgh, PA | Aug. 2010

3. J.A. Loertscher, **P.J. Alaimo**, J.M. Langenhan. *Novel pedagogical approach for teaching professional-style scientific writing to undergraduates*. Seminar | 21st Biennial Conference on Chemical Education | Bloomington, IN | July 2008
2. **P.J. Alaimo**, M.A. Shogren-Knaak, K.M. Shokat. *Chemical genetic analysis of protein kinase cascades*. Seminar in "Advances in Gene Technology: The Genome and Beyond – Structural Biology for Medicine" | Nature Biotechnology Winter Symposium | Miami, FL | Dec. 2002
1. P. Burger, B.A. Arndtsen, **P.J. Alaimo**, H.F. Luecke, R.G. Bergman. *Effect of counterions on the C-H activation reactivity of Ir(III) cations*. Seminar INOR-267 | 215th ACS National Meeting | Dallas, TX | Apr. 1998

Student-Delivered Research Presentations, External

Twenty-five oral and poster research presentations by students (57 undergraduate co-authors) at external conferences including the following: ACS National meetings, Puget Sound ACS meetings, NCUR, Murdock, and AAAS.

Student-Delivered Research Presentations, Internal

Twenty-five oral and poster research presentations by students at Seattle University events (42 undergraduate co-authors).

EXTERNAL PROFESSIONAL SERVICE

Associate Editor <i>International Journal of Drug Discovery</i>	2010–2016
Councilor for Chemistry Division <i>Council on Undergraduate Research</i>	2012–2015
Integrating Research into the Curriculum Task Force, member	2012–2015
Promotion and Tenure Guidelines Task Force, member	2013
Posters on the Hill, submission reviewer	2013, 14, 15
Area B West Nodal Leader <i>SENCER / SCEWestNet</i> (with D. Latch and L. Whitlow)	2011–2014
Recruited and managed this group of 14 faculty from 8 universities.	
Organized SCEWestNet Course Development Meeting	Nov. 2013
Organized SCEWestNet Working Meeting for WA state faculty	Mar. 2013
Session Chair <i>43rd National Organic Chemistry Symposium, ACS</i>	June 2013
Served as an invited session chair	
External Scientific Consultant	
University of Puget Sound, Department of Chemistry	2013–14
Grant Proposal Reviewer	
Murdock Trust Murdock College Research Program for Natural Sciences	Mar. 2018
American Chemical Society Petroleum Research Fund	Feb. 2017
American Chemical Society Petroleum Research Fund	Feb. 2016
Murdock Trust Murdock College Research Program for Natural Sciences	Oct. 2014
Wellcome Trust & Royal Society Sir Henry Dale Fellowship Program London, UK	Mar. 2014
Research Corporation CCSA Program	Aug. 2013
Research Corporation CCSA Program	June 2013
Technology Foundation STW Partnership Program Utrecht, The Netherlands	Dec. 2012
NSF MRI Program Washington, D.C.	May 2008
NSF Phase I CCLI Program Washington, D.C.	July 2008
NSF Phase I CCLI Program Washington, D.C.	July 2007
NSF Phase I CCLI Program Washington, D.C.	July 2006

Research Corporation | CCSA Program

Dec. 2006

Journal Manuscript Reviewer

2005–present

*ACS Chemical Biology**Journal of the American Chemical Society**Angewandte Chemie**Journal of Chemical Education**Bioorganic and Medicinal Chemistry**Journal of Organic Chemistry**Chemical Reviews**Letters in Organic Chemistry**Chemistry – A European Journal**Molecular and Cellular Proteomics**ChemSusChem**Organic Letters**European Journal of Inorganic Chemistry**Organometallics**European Journal of Organic Chemistry**Synthetic Communications**International Journal of Drug Discovery***TEACHING AND MENTORING EXPERIENCE****Seattle University Courses**

Introductory Organic Chemistry Courses

Chemistry 2500/2501: *Organic Chemistry I* & lab

Fall 2004–present

Chemistry 2510/2511: *Organic Chemistry II* & lab

Winter 2005–present

Chemistry 2520/2521: *Organic Chemistry III* & lab

Spring 2005–2014

Advanced Elective Courses (textbook author)

Chemistry 4802 *Organometallics & Organic Spectroscopy*

Fall 2017

Chemistry 4800: *Molecular Pharmacology and Cancer*

Fall 2010

Chemistry 4802: *Physical Organic Chemistry* (Dougherty)

Spring 2005, Fall 07

Chemistry 4960: *Organotransition Metal Chemistry* (Hartwig)

Spring 2015

Senior Capstone / Senior Synthesis Courses

Chemistry 4985: *Senior Synthesis Seminar I*

Fall 2005, 12, 13, 14, 15, 16

Chemistry 4990: *Senior Synthesis II: Independent Research*

2004–present

University Core

UCOR 1810: *Chemistry of Food and Cooking*

Spring 2015, 16, 17, 18, 19

Non-Seattle University Courses*Case Studies in Environment and Health* | ETH-Zürich | co-lecturer

Spring 2012

Introduction to Environmental Organic Chemistry | ETH-Zürich | co-lecturer

Fall 2011

The Chemistry of Metalloenzymes | SF State University | guest lecturer

Fall 2003

Mechanistic Organic Chemistry | UCSF CCB Graduate Program | guest lecturer

Fall 2001, 02, 03

Biochemistry, Pharmacology & Cell Biology | UCSF Medical School | discussion leader

Fall 2002

MCAT Preparation: Organic Chemistry | Princeton Review | instructor

1995–96

Inorganic Chemistry I | UC Berkeley | graduate student instructor

Spring 1996

Organic Chemistry II | UC Berkeley | head graduate student instructor

Spring 1995

Organic Chemistry I | UC Berkeley | graduate student instructor

Fall 1994

Organic Chemistry | 21st Century Program | Univ. Michigan | discussion leader

1992–94

General Chemistry | 21st Century Program | Univ. Michigan | discussion leader

1991–92

Current Undergraduate Research Students

<u>Student Name</u>	<u>Dates in Lab</u>	<u>Degree Expected</u>
1. Olga Musinina	1/18-present	B.S. expected 2020
2. Clara Park	1/18-present	B.S. expected 2020
3. Kaley Dugger	4/18-present	B.S. expected 2020
4. Koryna Boudinot	4/18-present	B.S. expected 2020
5. Diana Dimarco	4/18-present	B.S. expected 2020

Former Undergraduate Research Students

<u>Student Name</u>	<u>Dates in Lab</u>	<u>Current Position</u>
32. Tudi Le	1/17-6/2018	B.S. expected 2019
31. Sonja Danon	9/16-6/17	eating baguettes in Paris
30. Dylan Ng, B.S.	4/16-6/17	unknown
29. Sarina Jenkins, B.S.	2/15-6/17	xCella Biosciences research technician
28. Kevalyn Bharadwaj, B.S.	2/15-6/16	unknown
27. Cecilia Johnson, B.S.	1/13-6/16	UW Seattle graduate student
26. Stephan Leger, B.S.	1/14-6/15	unknown
25. Bayley Larsen, B.S.	2/15-6/15	unknown
24. Ariana Sanchez, B.S.	1/11-6/13	Stanford University graduate student
23. Allison Sidor, B.S.	1/11-12/12	Rocky Vista University osteopathic medical student
22. Marissa Marcotte, B.S.	1/11-12/12	Loyola University of Chicago medical student
21. Paula Zapata, MPH	1/11-6/11	Molina Healthcare Quality Improvement Specialist
20. Lindsey Youngquist, M.D.	9/09-6/11	Swedish Medical Center physician
19. Mackenzie Clay, B.S.	6/09-9/11	UCLA chemical engineering graduate student
18. David Andrews, B.S.	4/09-12/10	UNC Chapel Hill chemistry graduate student
17. Ann Frost, B.A.	9/09-12/10	applying to graduate programs
16. Cara Southworth, B.S.	6/09-12/10	Anderson Hay and Grain
15. Amanda Marshall, B.S.	4/08-7/09	OUIWB medical student
14. Colleen Ottinger, B.S.	1/08-12/08	Seattle Cancer Care Alliance research coordinator
13. Corey Paulino, B.S.	9/06-11/08	Arizona School of Dentistry dental student
12. MinhTu Banh, B.S.	10/06-6/08	Doctor of Optometry
11. Elizabeth Tyson, Ph.D.	3/06-6/08	UW Seattle postdoctoral associate
10. Jack Chacon, B.S.	5/06-5/07	Waters Corp. Islands regional service manager
9. Scott Davis, B.S.	1/07-5/07	US Army Officer 10 th Mountain Division
8. Sarah Connell, M.D.	1/06-6/06	Seattle Children's Hospital pediatrician
7. Adam Johnson, B.S.	10/05-12/06	Webster Law attorney
6. Lorien Wallace, D.O.	3/05-6/06	Kaiser Permanente osteopathic physician
5. Bobby O'Brien, Ph.D.	3/05-7/06	Impossible Foods scientist
4. Jamie Garcia, Ph.D.	10/04-7/06	IBM polymer chemist
3. Sarah Slauson, B.S.	10/04-7/06	Bluebird Bio senior associate scientist II
2. Scott Rizzi, B.S.	10/04-8/05	unknown
1. Veronica Large, B.S.	10/04-6/05	Puget Sound Naval Shipyard

HONORS AND AWARDS

Excellence in Teaching Award College of Science and Engineering SU	2018
Scholarship of Teaching and Learning Writing Retreat Fellow SU	2007, 2011
Cottrell College Science Award Research Corporation	2008
Carnegie Academy for the Scholarship of Teaching & Learning Institute Scholar	2008
Academic Service Learning Fellow SU	2006
Major Research Instrumentation (MRI) Award NSF	2006
Cottrell College Science Award Research Corporation	2005
American Cancer Society Postdoctoral Fellowship	2001–2004
Susan G. Komen Breast Cancer Foundation Postdoctoral Fellowship	2000–2001
National Institutes of Health (F32) Postdoctoral Fellowship (declined)	2000
Bruce H. Mahan Teaching Award UC Berkeley	1997
Outstanding Graduate Student Instructor Award UC Berkeley	1997
Outstanding Graduate Student Instructor Award UC Berkeley	1996
Outstanding Graduate Student Instructor Award UC Berkeley	1995
Smeaton Research Fellow Univ. Michigan	1993
Phi Lambda Upsilon Honorary Chemical Society	1993
Golden Key National Honor Society	1992
Institute for the Humanities Fellow Univ. Michigan	1992

NEWS ARTICLES

11. *Science* | “Teaching safety skills, not just safety rules” | <http://www.sciencemag.org/careers/2016/05/teaching-safety-skills-not-just-safety-rules> | 5/23/2016
10. *Chemical & Engineering News* | “How educators are teaching students to assess risk in the lab: Safety experts and professors share their approaches for moving beyond simple lab safety rules to teach students new skills” | <http://cen.acs.org/articles/94/i16/educators-teaching-students-assess-risk.html> | 3/13/2016
9. *Science* | editor’s highlight on teaching organic chemistry undergraduate lab courses | http://www.sciencemagazinedigital.org/sciencemagazine/21_november_2014?pg=78#pg78 | 11/21/2014
8. *SENCER* | “Northwest Node Engages New Faculty in Civic Engagement Efforts” | <http://serc.carleton.edu/sencer/newsletters/71769.html> | 5/2/2013
7. *Inside Science News Service* | “Safe and Scientifically Sound: A lack of data showing the best lab safety practices has researchers searching for answers.” | <http://www.insidescience.org/current-affairs/safe-and-scientifically-sound> | 9/8/2011
6. *Science* | podcast highlight on teaching writing in organic chemistry undergraduate lab courses | 5/20/2011 | <http://www.sciencemag.org/content/332/6032/919/suppl/DC1>
5. *Chemical & Engineering News* | The Safety Zone blog: “Undergrad Lab Safety Teams” | 7/7/2010 | <http://cenblog.org/the-safetyzone/2010/07/undergrad-laboratory-safety-teams/>
4. *Journal of Chemical Education* **2010**, 87, 764-765. | Editorial highlight of Safety Teams
3. *The Scientist* **2010**, 24, 4, 23-25. | “Over a Barrel”
2. *The Teaching Professor* | “Replacing Lab Reports” | 2/2/2010 | <http://www.teachingprofessor.com/articles/improving-teaching/replacing-lab-reports>
1. *Chronicle of Higher Education* | 3/27/2003 | “What’s your philosophy on teaching, and does it matter?” | <http://chronicle.com/article/Whats-Your-Philosophy-on-T/45132/>