
Krista E. Slemmons *Curriculum Vitae*

Biology Department
347 Chemistry and Biology Building
University of Wisconsin-Stevens Point
Stevens Point, WI 54473

phone: (715)346-2453
Email: kslemmon@uwsp.edu
Research website: www.paleodiatom.com

EDUCATION

- 2009-2013 Ph.D. Ecology and Environmental Sciences,
University of Maine, Orono, Maine.
Dissertation: The influence of glacial meltwater on alpine and arctic lake phytoplankton throughout the Holocene. Advisor: Dr. Jasmine Saros
- 2003-2007 M.S. Environmental Science and Conservation Biology
Miami University, Oxford, Ohio.
Thesis: The effects of eutrophication on algae and seagrass biomass, species diversity, and abundance. Advisor: Dr. Hays Cummins
- 1998-2000 M.Ed. Science Education
Wright State University, Dayton, Ohio.
Thesis: Explorative science: the impact on ecological self-efficacy, misconceptions and ethics.
- 1990-1994 B.S. Biology, Chemistry minor
Denison University, Granville, Ohio.

Biology Teaching License, grades 7-12, 1999-present, State of Ohio

Biology Teaching License, grades 7-12, 2019-present, State of Wisconsin

TEACHING and PROFESSIONAL EXPERIENCE

- 2019-present Associate Professor of Biology, University of Wisconsin-Stevens Point, Stevens Point, Wisconsin
- 2013-2019 Assistant Scribner Professor of Biology, University of Wisconsin-Stevens Point, Stevens Point, Wisconsin
- 2009-2013 Teaching and Research Assistant, University of Maine, Orono, Maine
- 2008-2009 Project Director, GEAR UP, U.S. Dept. of Education, Hawaii Community College, Hilo, Hawaii
- 2005-2008 Secondary Science Teacher, Kenai Borough School District, Ninilchik, Alaska
- 2005 Research Intern, Kenai Watershed Forum, Soldotna, Alaska
- 2002-2003 Teaching Assistant, Miami University, Oxford, Ohio
- 2001-2005 Secondary Science Teacher, Talawanda City Schools, Oxford, Ohio

1998-2001 Secondary Science Teacher, Hamilton Local Schools, Columbus, Ohio
1998-1999 Secondary Science Teacher, Fairborn City Schools, Dayton, Ohio
1997-2000 Laboratory Technician, Compunet Clinical Laboratories, Dayton, Ohio
1995-1997 Research Technician, Springborn Laboratories Inc., Spencerville, Ohio

GRANTS, AWARDS and FELLOWSHIPS

2020 Learning and Discovery in Experimental Environmental Health Science: On the Path from Data to Knowledge" the NIH Science Education Partnership Award Program (submitted)

University Excellence in Scholarship Award, UWSP

2019 Research and Creative Activities Grant, UWSP, Temporal-spatial ecosystem dynamics in lake chemistry and biota in temperate and arctic lakes, USA. (\$6,254, decreased to \$2,000 due to COVID budget cuts)

University Excellence in Teaching Award, UWSP

Excellence in Scholarship, UWSP Biology Department Award

2018 Excellence in Scholarship, UWSP Biology Department Award

Excellence in Teaching, UWSP Biology Department Award

2017 Center for Inclusive Teaching and Learning, UWSP, Online Course Development Grant, *BIOL 100: Biology and the Human Environment course redesign* (\$3,000)

Excellence in Scholarship, UWSP Biology Department Award

Undergraduate Education Initiative, UWSP, *Habitat-induced change in diatom communities through the use of high capacity wells in the central sands region of Wisconsin, USA, as inferred from paleolimnological data and lake level modeling* (\$3,340)

US Department of Agriculture, Cooperative State Research, Education and Extension, *Educating a Workforce for Aquaculture Industry: Matching Skill Needs of the Aquaculture Industry with US Career and Technical Education*, co-principle investigators: Helal and Evans (Lake Superior State University), Pattillo (Iowa State University) and Hartleb (UWSP), (\$188,036)

2016 Wisconsin Department of Public Education, Mathematics and Science Partnership, co-principle investigator and in collaboration with B. Franzen, S. Windjue, and N. Filzetti (College of Natural Resources and Wisconsin Center for Environmental Education) (\$421,000, declined)

Course Innovation Grant, UWSP, *Reducing science anxiety and improving pre-service elementary teacher's efficacy toward teaching science in Biology 100*

(declined)

Undergraduate Education Initiative, UWSP, Fall, *Climate and atmospheric-induced change in diatom communities throughout the Holocene in a high elevation mountain lake, The Loch, Rocky Mountain National Park, USA.* (\$3,590)

Undergraduate Education Initiative, Summer, UWSP, *Quantifying ecological change in lakes within the Great Lakes' Basin over the last 150 years* (\$6,180)

2015

Wisconsin Teaching Fellow, UW Systems, Office of Professional and Instructional Development, *Effectiveness of video lecture segments in diversifying teaching pedagogy and improving retention and application of content knowledge as assessed by case study problem solving abilities in non-majors biology college classroom* (\$4,000)

Research and Creative Activities Grant, UWSP, *Identifying long-term lake thermal structure in islands lakes within the Great Lakes; implications for biota in a changing climate* (\$7,492)

Undergraduate Enhancement Initiative, UWSP, fall, *Identifying spatial and temporal patterns of anthropogenic nitrogen deposition and the influence on aquatic community change in Wisconsin Lakes* (\$4,595)

Student Research Grant, Schminaski, Soderlund (\$2,000 applied)

Student Research Grant, Shaw, Lirette, and Rodgers (\$3,000 applied)

2014

Undergraduate Enhancement Initiative, UWSP, *Quantifying ecological change in diatom diversity in paleolimnological records from lakes in Sweden* (\$4,526)

2013

University Personnel Development Committee (UPDC) New Faculty grant, UWSP, *Establishing critical nitrogen deposition loads in lakes of Sweden inferred from paleolimnological records* (\$4,912)

Graduate Student Government grant, University of Maine (\$850)

2012

Graduate Student Government grant, University of Maine (\$850)

Dan and Betty Churchill Exploration Fund grant, University of Maine (\$2,517)

2011

Ada and Alston Correll Fellowship, University of Maine (\$26,400)

National Park Service, George Melendez Wright Climate Change Fellowship, *Investigating how climate induced changes in alpine glaciers alter phytoplankton communities and lake habitat* (\$12,372)

2010

Graduate Student Government grant, University of Maine (\$638).

Chase Distinguished Research Assistantship, University of Maine (\$13,120 plus tuition)

Best Poster Award at American Society of Limnology and Oceanography, (\$50)

Dan and Betty Churchill Exploration Fund grant recipient, University of Maine (\$2,100)

Graduate Student Government grant, University of Maine (\$649)

Supplemental Doctoral Stipend grant, University of Maine (\$3,780)

1999 Kappa Delta Pi, International Honor Society in Education, Wright State University

1998 Women in Science Fellowship, Wright State University, (tuition)

PEER REVIEWED PUBLICATIONS *undergraduate coauthor

13. Price JR, Szymanski DW, **Slemmons KE**, Eskey M, Johnson E, Bricker S (in prep - 2020) Climatic controls on phosphorus concentrations in The Loch, Loch Vale Watershed, Rocky Mountain National Park, Colorado, USA: Apatite weathering and paleoclimate from the late Pleistocene to early Holocene.
12. **Slemmons KE**, Nurse A, Slemmons CR, and Rodgers M (2019) Climate forcing drives ecological change in an island lake on Michipicoten Island, Lake Superior, Canada, as inferred from paleoecological records. To be submitted to Journal of Great Lakes Research.
11. **Slemmons KE** (2019) Clues in the Core, *Untangling the mystery of dead fish in Bear Pond: a case study in acid rain and paleoecology*. National Center for Case Study Teaching in Science, University of Buffalo.
10. Sepsenwol S and **Slemmons KE** (2018) Automated SEM Diatom Survey and Correlative Light Microscopy. Proceedings of Microscopy and Microanalysis, Vol 24: S1.
<https://doi.org/10.1017/S1431927618007195>
9. **Slemmons KE**, Anyanwu K, Hames J, Graski D, Mlsna J, Simkins E, Cook P (2018) The Impact of Video Length on Learning in a Middle Level Flipped Science Setting. *Journal of Science Education and Technology* 27(5):469-479.
8. **Slemmons KE**, Rodgers ML*, Stone JR, Saros JE (2017) Nitrogen subsidies in glacial meltwaters have altered planktonic diatom communities in lakes of the US Rocky Mountains for at least a century. *Hydrobiologia Special Issue 800: Emerging trends in aquatic ecology*.
<https://doi:10.1007/s10750-017-3187-2>.
7. Ballen CJ, Blum JE, Brownell S, Herbert S, Hewlett J, Klein JR, McDonald EA, Monti DL, Nold SC, **Slemmons KE**, Soneral PAG, Cotner S (2017) Course-based undergraduate research experiences for nonmajors. *Cell Biology Education-Life Sciences Education* 16(3): co5.

6. **Slemmons KE**, Medford A, Hall B, Stone JR, McGowan S, Lowell T, Kelly M, and Saros, J (2016) Changes in glacial meltwater alter algal communities in lakes of Scoresby Sund, Renland, East Greenland throughout the Holocene. Abrupt reorganizations began 1000 years before present. *The Holocene*. [https://doi: 10.1177/0959683616678468](https://doi.org/10.1177/0959683616678468).
5. **Slemmons KE** and Saros JE (2016) Effects of glacier meltwater on the algal sedimentary record of an alpine lake in the central US Rocky Mountains. *Mountain Views Chronicle Brevia*. 10(1).
4. **Slemmons KE**, Saros JE, Stone JR, McGowan S, Hess CT, Cahl D (2015) Effects of glacier meltwater on the algal sedimentary record of an alpine lake in the central U.S. Rocky Mountains throughout the late Holocene. *Journal of Paleolimnology*. 53(4) 385-399. [https://doi: 10.1007/s10933-015-9829-3](https://doi.org/10.1007/s10933-015-9829-3).
3. **Slemmons KE**, Saros JE, Simon K (2013) The influence of glacial meltwater on alpine aquatic ecosystems: a review. *Environmental Sciences: Processes and Impacts*. 15: 1794-1806. [https://doi: 10.1039/c3em00243h](https://doi.org/10.1039/c3em00243h).
2. **Slemmons KE**, Saros JE (2012) Implications of nitrogen-rich glacial meltwater for phytoplankton diversity and productivity in alpine lakes. *Limnology and Oceanography*. 57(6):1651-1663. [https://doi:10.4319/lo.2012.57.6.1651](https://doi.org/10.4319/lo.2012.57.6.1651).
1. Saros JE, Stone JR, Pederson GT, **Slemmons KE**, Spanbauer T, Schliep A, Cahl D, Williamson CE, Engstrom DR (2012) Merging neo- and paleoecological approaches to decipher the response of lakes to climate change over the last millennium. *Ecology*. 93:2155-2164. <http://10.1890/11-2218.1>

PUBLICATIONS IN PREPARATION *undergraduate coauthor

Rodgers M*, Fleischman C*, Whitenack M*, Grosch J*, Wied J*, Hill B*, Sipiorski J, Bell B, and **Slemmons, K**. Temporal comparison of diatom community change over the last 50 years within the Plover River, Central Wisconsin, USA via gut content analysis of the Central Stoneroller (*Campostoma anomalum*).

Schimanski J*, **Slemmons K** and Soderlund D*. Quantifying nitrogen origins and ecological change in diatom diversity in paleolimnological records from lakes in Sweden.

Slemmons K, Shaw C*, Lirette N*, and Rodgers M*. Ecological change in Wisconsin lakes along a nitrogen gradient over the last 150 years.

Slemmons K and Covey C*. Lake-level decline and ecological impacts of high capacity well withdrawal of groundwater in Wisconsin Lakes.

COURSES TAUGHT

University of Wisconsin-Stevens Point, Stevens Point, WI

Aquaponics Master Class for Teachers

BIOL 100

Biological Principles & the Human Environment (Fall & Spring 2013-present), Online version (Spring 2014, Summer 2017-present).

75-95 students, 3-4 sections

BIOL 205	Survey of Ecology and Evolution, online
BIOL 309	Ecology of the Big Island of Hawaii, (Winterim 2020). <i>16 students</i>
BIED 398/498	Student Teaching in Biology (Fall & Spring 2013-present), <i>3-5 students</i>
BIED 400	Seminar for Student Interns/Teachers in Science (Fall & Spring 2013-present), <i>3-12 students</i>
EDUC 398	Secondary Science Methods
BIOL 399	Independent Study (Fall & Spring 2014-present)
BIOL 490	Senior Seminar: Paleoecology and Paleolimnology (Fall 2015), <i>8-12 students</i>
BIOL 490	Senior Seminar: Climate Change and Freshwater Systems (Spring 2016), <i>8-12 students</i>

University of Maine, Orono, Maine

BIO 100	Intro Biology (Fall 2009, Fall 2012, Spring 2013), <i>75 students</i>
BIO 200	Organismal Biology (Fall 2010), <i>75 students</i>
INT 500	Climate, Culture, and the Biosphere Seminar (Fall 2012), <i>50 students</i>

Miami University, Oxford, Ohio

GLG 513	Tropical Marine Biology (Summer 2001-2003), <i>30 students</i>
---------	--

Hawaii Community College, Hilo, Hawaii

LSK 102	Learning Skills (Summer 2008-2009), <i>40 students</i>
---------	--

Ninilchik Schools, Ninilchik, Alaska

Biology (Fall & Spring 2005-2007)
 Chemistry (Fall & Spring 2006-2007)
 Microbiology (Fall 2007)
 Marine Biology (Spring 2006)
 Earth and Physical Science (Fall & Spring 2005-2007)
 Anatomy and Physiology (Fall 2005)
 7th and 8th grade Science (Fall & Spring 2005-2007)

Talawanda High School, Oxford, Ohio

Biology (Fall & Spring 2001-2005)
 Physical Science (Fall & Spring 2001-2004)
 Anatomy and Physiology (Fall & Spring 2004-2005)

Hamilton Local High School, Columbus, Ohio

Biology (Fall & Spring 1999-2001)
 Physical Science (Fall & Spring 1999-2001)

UNDERGRADUATE TEACHERS MENTORED

Student teacher mentoring involves responding to weekly reflections and lesson plans, mentoring and advising throughout the semester and four on-site visitations with pre- and post-observation conference.

40. Robert Her, Spring 2020. student teacher at SPASH

39. Jeremy Lee, Fall 2019, student teacher at Marathon High School

38. **Kasey Kopp**, Fall 2019, student teacher at SPASH
37. **Todd Hugill**, Fall 2019, student teacher at PJ Jacobs
36. **Amanda Kyle**, Spring 2019, student teacher at Ben Franklin Junior High
35. **Kendra Kunderling**, Spring 2019, student teacher at PJ Jacobs
34. **Ilana Fish**, Spring 2019, student teacher at Amherst Middle School
33. **Elyse Batien**, Spring 2019, teacher at Marathon High School
32. **Johan Aulwes**, Fall 2018, student teacher at Rosholt High School
31. **Derek Zahn**, Fall 2018, student teacher at Ben Franklin Jr. High
30. **Andrea Braatz**, Fall 2018, student teacher at Parkside School
29. **Ashley Bellendorf**, Fall 2018, student teacher at DC Everest
28. **Eric Bowman**, Spring 2018, student teacher at Marshfield High School, current teacher at Marshfield HS.
27. **Ross Tilkens**, Fall 2017, student teacher at Amherst High School.
26. **Rachel Weiss**, Fall 2017, student teacher at Chief Paul Memorial School
24. **Megan Lassa**, Spring 2017, student teacher at Rosholt High/Middle School, current teacher at Iola-Scandinavia School District.
23. **Jacob Behrens**, Spring 2017, student teacher at John Muir Middle School, current teacher at Eau Claire High School.
22. **Connor Ellenbecker**, Spring 2017, student teacher at Marathon High School, current teacher at Marathon School District.
21. **Keith Kemp**, Fall 2016, student teacher at Marathon Venture
20. **Leah Pautz**, Fall 2016, student teacher at Chief Paul Memorial School
19. **Bo Sahr**, Fall 2016, student teacher at Paul T Albert Memorial School
18. **Alyssa Yirkovsky**, Spring 2016, student teacher at PJ Jacobs Junior High School, Stevens Point Area High School, current teacher at Merrill High School.
17. **Gina Rychtik**, Spring 2016, student teacher at Iola Scandinavia High School
16. **William Dally**, Spring 2016, student teacher at Ben Franklin Junior High, Wittenberg-Birnamwood High School, current teacher at Wisconsin Rapids High School.
15. **Kate Witkowski**, Spring 2016, student teacher at Rosholt High/Middle School, current teacher at The Conserve School.
14. **Nick Colle**, Fall 2015, student teacher at Denmark High School, current teacher at Early College High School.

13. **Teale Mach**, Fall 2015, student teacher at Berlin High School, current teacher at Antigo High School.
12. **Brittany Federspiel**, Fall 2015, student teacher at West Bend High School
11. **Andrew Plisch**, Spring 2015, student teacher at Ben Franklin Junior High School, current teacher at Merrill High School.
10. **Dustin Buntrock**, Spring 2015, student teacher at Wausau East High School, currently enrolled in graduate school.
9. **William Bialecki**, Spring 2015, student teacher at Merrill High School, current teacher at St Francis Xavier Catholic School.
8. **Erick Minnameier**, Fall 2014, student teacher at Deforest High School and Baraboo High School, current teacher at Northern Ozaukee School District.
7. **Gordon Hoeldtke**, Spring 2014, student teacher at Marshfield High School, current teacher at the All Saints Catholic School.
6. **Jessica (Pintens) Flasch**, Spring 2014, student teacher at Stevens Point Area High School, current teacher at Waupun Area School District.
5. **Melissa Mehre**, Spring 2014, student teacher at Wausau Engineering and Global Leadership Academy, current teacher at DC Everest High School.
4. **Natalie Titus**, Spring 2014, student teacher at Westfield High School, current teacher at Campbellsport School.
3. **Brittney (Buchowski) Zierten**, Spring 2014, student teacher at DC Everest, current teacher at John Muir Middle School.
2. **Megan (Steane) Ourada**, Fall 2013, student teacher at Wisconsin Dells High School, current teacher at Two Rivers High School.
1. **Elizabeth Franklin**, Fall 2013, student teacher at Ben Franklin Junior High, current teacher at Tomah High School.

UNDERGRADUATE RESEARCH MENTORED

24. **Nolan Carlson** (2020-present). Algal diversity in high nutrient lakes in Central Wisconsin
23. **Rhiannon Corozolla** (2020-present). Comparison of algal communities in multiple lakes, using National Ecological Observatory Network data
22. **Payton Jorgenson** (2020-present). Comparison of chemical change in Wisconsin Lakes using National Ecological Observatory Network data
21. **Megan Jansen** (2020-present). Comparison on continent scale of chemical change in lakes across the US using National Ecological Observatory Network

20. **Einstein Xiong** (2020-present). Physical and chemical analysis of lake characteristics of Little Rock Lake, Wisconsin (2020-present).
19. **Allie Waite**(2020-present).Diatom community change in Little Rock Lake, Wisconsin (2020-present)
18. **Kevin Krentz** (2020-present). Comparing diatom communities of the Plover River via gut content analysis of the central Stoneroller, *Campostoma anomalum* using Scanning Electron Microscopy(2020-present).
17. **Noah Daun** (2018-2019) Comparing diatom communities of the Plover River via gut content analysis of the central Stoneroller, *Campostoma anomalum*.
16. **Michael Perry** (2018-2019). Comparing diatom communities of the Plover River via gut content analysis of the central Stoneroller, *Campostoma anomalum* using SEM
15. **Adam Ruka** (2018) Influence of nutrient effluent on diversity and biovolume of sessile algae.
14. **Cayla Cavey** (2017-2018) Detecting groundwater extraction through paleolimnological records and lake-level modeling.
13. **Amanda Bisgrove** (2017) Development of a secondary education lesson plan related to acid rain.
12. **McKayla Drozd** (2017) Clues at the Core, Untangling the mystery of dead fish in Bear Pond: A case study in acid rain and paleoecology. Case study development.
11. **Kelly Liss** (2016-2017) Developing a case study examining diagnosis of ALS.
10. **Markie Rodgers** (2015-2017) Identifying spatial and temporal patterns of anthropogenic nitrogen deposition and the influence on aquatic community change in Wisconsin Lakes (Crampton Lake) and Comparing diatom communities of the Plover River via gut content analysis of the central Stoneroller, *Campostoma anomalum*.
9. **Jennifer Schimanski** (2015-2107) Establishing critical nitrogen deposition loads in lakes of Sweden inferred from paleolimnological records (Ysjon and Furbsjon Lakes).
8. **Daniel Soderlund** (2015-2107) Establishing critical nitrogen deposition loads in lakes of Sweden inferred from paleolimnological records (Barsjon and Lilla Ulvattnet Lakes).
7. **Caitlin Shaw** (2015-2016) Identifying spatial and temporal patterns of anthropogenic nitrogen deposition and the influence on aquatic community change in Wisconsin Lakes (Pike Lake).
6. **Natalie Lirette** (2015-2016) Identifying spatial and temporal patterns of anthropogenic nitrogen deposition and the influence on aquatic community change in Wisconsin Lakes (Crampton Lake).
5. **Anthony Warnecke** (2015-2016) Effectiveness of video lectures and case studies on the ability of students to apply content knowledge and reduce science anxiety in non-majors biology college classroom.
4. **Nicholas Ramcheck** (2015) Case study using flipped science classrooms.
3. **David Strong** (2014-2015) Establishing critical nitrogen deposition loads in lakes of Sweden inferred from paleolimnolical records.
2. **Jacob Champeau** (2014-2015) Deciphering the interactive effects of atmospheric deposition and climate-mediated change on aquatic communities: Implications for water quality in the Great Lakes Region.
1. **Nicolette Ratz** (2014) Deciphering the interactive effects of atmospheric deposition and climate-mediated change on aquatic communities: Implications for water quality in the Great Lakes Region.

ONGOING RESEARCH COLLABORATIONS

- Burke S, (et al.), University of Waterloo, Global Lake Ecological Observatory Network (GLEON). International community collaboration to identify global trends in primary productivity using sedimentary pigments.
- Price J, (et al.), Illinois College. Biogeochemical analysis and lake history of The Loche, Rocky Mountains, USA.
- Nurse A, University of Maine. Vegetative change in Great Lake Island lakes using pollen and diatom analysis.
- Sepsenwol S, UW-Stevens Point. Scanning electron microscopy (SEM) methodology to enumerate diatoms.
- Ballen CJ, Blum JE, Brownell S, Herbert S, Hewlett J, Klein JR, McDonald EA, Monti DL, Nold SC, Soneral PAG, Cotner S, Examining the implementation of using Course Based Research Experience (CUREs) in a non-majors class.
- Sipiorski J, UW-Stevens Point. Diatom analysis of fish gut contents in the Plover River.
- Hartleb C, (et al.), UW-Stevens Point. Educating a workforce through aquaculture, curriculum development.
- McCaul E, Elliot B, Kingston S, Ontario Parks and Lake Superior Provincial Park. Quantifying ecological change in lakes on Michipicoten Island.
- Anyanwu K, Cook P, Misna J, Grabski D, Hames J. UW-Stevens Point. Impact of video length on learning in a middle level flipped science setting.

PRESENTATIONS #invited *undergraduate students.

- Slemmons KE**, Nurse A, Rodgers M, Slemmons C, Sepsenwol S (2020) *Climate forcing drives ecological change in an island lake on Michipicoten Island, Lake Superior, Canada, as inferred from Cyclotella sensu lato diatom taxa*. Association for the Sciences of Limnology and Oceanography, Society for Freshwater Science Conference, Madison, WI (canceled due to COVID19).
- Slemmons KE** Guest Lecture for BIOL 99. (2019) *EARTH'S EYE: Using lakes as indicators of ecological change*.
- Slemmons KE** and Chris Yahnke (2019) STEAM Point Day for Boys, *What's for Dinner*.
- Slemmons KE** (2019) STEAM Point Days for Boys, *What's Lurking in the lake?* Treehaven.
- Slemmons KE** (2019) College Day for Kids, *Out of the ooze comes some clues. Using diatoms to study past climates*. Stevens Point, Wisconsin.

Slemmons KE (2018) STEAM Point Days, *What is lurking in the lake?*

Sepsenwol S and **Slemmons KE** (2018) ⁺ *Automated SEM diatom surveys and correlative light microscopy*. Microscopy and Microanalysis fall meeting.

Slemmons KE, Nurse, A, Rodgers, M (2018). *Climate forcing drives ecological change in an island lake within Lake Superior, USA, inferred from paleoecological records*. International Association for Great Lakes Research and the European Lakes Symposium International Conference, Evian, France.

Slemmons KE (2018) *Using lakes as sentinels for environmental change*. College of Emeriti Program at UW-Marathon County.

Slemmons KE, Cavey C and Rodgers M (2018) *Hydrologic, vegetative and isotopic change in response to climate forcing in island lakes within Lake Superior*. Wisconsin Lakes Partnership Convention. Stevens Point, WI

Cavey C, and **Slemmons KE** (2018) *Examining the influence of groundwater withdraw on lake habitat and diatom communities using lake level modeling and paleoecological techniques*. College of Letters and Science Research Symposium, Stevens Point, Wisconsin.

Ruka A and **Slemmons KE** (2018) *Determining a nutrient threshold for change in freshwater algal communities*. College of Letters and Science Research Symposium, Stevens Point, Wisconsin.

Burpee BT, **Slemmons KE**, Anderson D, and Saros J (2018) *Do nutrient subsidies to alpine lakes amplify warming and drive changes in diatom community turnover?* International Paleolimnological Association, Stockholm, Sweden.

Slemmons KE (2017) [‡] *Using lakes as sentinels for environmental change*. Community Lecture Series, Stevens Point, Wisconsin.

Slemmons KE, and Rodgers M* (2017) *Diatom-inferred mixing depth over a century in an island lake within the Great Lakes; implications for biota in a changing climate*. Wisconsin Lakes Convention, Stevens Point, Wisconsin.

Slemmons KE, Anyanwu K, Hames J, Graski D, Mlsna J, and Cook P (2017) *Implications of video length in a flipped classroom on diversity inclusion*. Wisconsin Society of Science Teachers Spring Conference, Oconomowoc, Wisconsin.

Rodgers M,* and **Slemmons KE** (2017) *Identifying spatial and temporal patterns of anthropogenic nitrogen deposition and the influence on aquatic community change within the Great Lakes Basin*. Abstract submitted but not accepted for Posters in the Rotunda, Madison, Wisconsin.

Rodgers M,* Fleischman C,* Whitenack M,* Sipiorski J, Bell R, and **Slemmons KE** (2017) *Comparing diatom communities of the Plover River via gut content analysis of the central*

Stoneroller, Campostoma anomalum. Colleges of Letters and Science Research Symposium, Stevens Point, Wisconsin.

Rodgers M,* Fleischman C,* Whitenack M,* Sipiorski J, Bell R, and **Slemmons KE** (2017) *Comparing diatom communities of the Plover River via gut content analysis of the central Stoneroller, Campostoma anomalum*. UW Systems Research Symposium, Stevens Point, Wisconsin.

Schimanski J* Soderlund D*, and **Slemmons KE** (2017) *Quantifying ecological change in diatom diversity in paleolimnological records from lakes in Sweden*. UW Systems Research Symposium, Stevens Point, Wisconsin.

Rodgers M* and **Slemmons KE** (2017) *Identifying diatom community and lake level change in a Wisconsin Lake*. UW Systems Research Symposium, Stevens Point, Wisconsin.

Schimanski J* Soderlund D*, **Slemmons KE** (2017) *Isotopic signatures and diatom community change in Swedish Lakes*. College of Letters and Science Research Symposium, Stevens Point, Wisconsin.

Rodgers M* and **Slemmons KE** (2017) *Nitrogen isotopic signatures in lakes within the Great Lakes Basin: implications for diatom community change*. College of Letters and Science Research Symposium, Stevens Point, Wisconsin.

Burpee B, **Slemmons K**, Anderson D, and Saros J (2017) *Glacially-derived nitrogen increases temporal coherence of algal community changes in alpine lakes*. American Society of Limnology and Oceanography (ASLO) Annual Meeting, Honolulu, Hawaii.

Saros JE, Burbee, BT, Warner K, and **Slemmons KE** (2016) ‡ *Temporal and spatial variability in the effects of nitrogen subsidies in glacial meltwater on alpine aquatic ecosystems*. Plenary Talk. American Society of Limnology and Oceanography (ASLO) Annual Meeting, Quebec City, Canada.

Slemmons K, Warnecke A, Anyanwu K, and Cook P (2016) *Effectiveness of video lectures and case studies on the ability to apply content knowledge and reduce anxiety in non-majors biology college class*. Office of Professional and Instructional Development Spring Conference on Teaching and Learning, Green Lake, Wisconsin.

Saros JE, Burpee BT, **Slemmons KE** and Warner KA. (2016) *Temporal and spatial variability in the effects of nitrogen subsidies in glacial meltwater on alpine aquatic ecosystems*. Association for the Sciences of Limnology and Oceanography, Santa Fe, New Mexico.

Slemmons K, Lirette N*, Rodgers M*, Shaw C* (2016) *Identifying spatial and temporal patterns of anthropogenic nitrogen deposition and the influence on aquatic community change in Wisconsin Lakes*. Wisconsin Lake Partnership Convention. Stevens Point, Wisconsin.

Lirette N*, Rodgers M*, Shaw C*, **Slemmons K** (2016) *Identifying spatial and temporal patterns of anthropogenic nitrogen deposition and the influence on aquatic community change in Wisconsin Lakes*. UW-Systems Symposium, Stevens Point, Wisconsin.

Lirette N*, Rodgers M*, Shaw C*, **Slemmons K** (2016) *Identifying spatial and temporal patterns of anthropogenic nitrogen deposition and the influence on aquatic community change in Wisconsin Lakes*. College of Natural Resources Research Symposium, Stevens Point, Wisconsin.

Schimanski, J*, Soderlund D*, **Slemmons K** (2016) *Quantifying ecological change in diatom diversity in paleolimnological records from lakes in Sweden*. UW-Systems Symposium, Stevens Point, Wisconsin.

Schimanski, J*, Soderlund D*, **Slemmons K** (2016) *Quantifying ecological change in diatom diversity in paleolimnological records from lakes in Sweden*. College of Letters and Science Research Symposium, Stevens Point, Wisconsin.

Lirette N*, Rodgers M*, Shaw C*, **Slemmons K** (2016) *Identifying spatial and temporal patterns of anthropogenic nitrogen deposition and the influence on aquatic community change in Wisconsin Lakes*. College of Natural Resources Research Symposium, Stevens Point, Wisconsin.

Slemmons KE, Cook P, Ananyu K (2015) ‡ *How to Grow a Scientist: teaching pedagogies that encourage meaningful, authentic and student-directed learning*. Women and Science Fall Conference, Wisconsin Dells, Wisconsin.

Slemmons KE, Shefferly N, Desang L (2015) ‡ Presentation of Biology Assessment Report to University Assessment Sub-committee. Stevens Point, Wisconsin.

Champeau J*, Strong D*, **Slemmons K** (2015) *Quantifying the effects of nitrogen deposition on inciting ecological change inferred from fossil diatom communities in Swedish lakes*. College of Letters and Science Research Symposium, Stevens Point, Wisconsin.

Federspiel B*, **Slemmons K** (2015) *Using paleolimnology proxies to examine the past climates and address current topics in global environmental change in a high school setting*. College of Letters and Science Research Symposium, Stevens Point, Wisconsin.

Slemmons KE (2015, 2014) College Day for Kids, *Out of the ooze comes some clues. Using diatoms to study past climates*. Stevens Point, Wisconsin.

Slemmons KE, Saros JE (2013) † *Implications of nitrogen-rich glacial meltwater for phytoplankton diversity and productivity*. 20th Annual Harold W. Borns Symposium, Climate Change Institute, University of Maine, Orono, Maine.

Warner K, Saros JE, **Slemmons KE** (2013) ‡ *Nitrogen subsidies in glacial meltwater: Implications for high elevation aquatic chains*. 20th Annual Harold W. Borns Symposium, Climate Change Institute, University of Maine, Orono, Maine.

Slemmons KE, Saros JE (2013) *Implications of nitrogen-rich glacial meltwater for phytoplankton diversity and productivity*. American Society of Limnology and Oceanography (ASLO) Annual Meeting, New Orleans, Louisiana.

Saros JE, Strock KE, **Slemmons KE**, Stone JR (2013) *Climate-induced changes in lake thermal structure and productivity inferred from paleolimnological reconstructions*. American Society of Limnology and Oceanography (ASLO) Annual Meeting, New Orleans, Louisiana.

Slemmons KE (2012) ‡ *Investigating how climate induced changes in alpine glaciers alter phytoplankton communities and lake habitat in Glacier National Park*. National Park Service Webinar.

Slemmons KE (2012) ‡ *Release of nitrogen by melting glaciers: Effects on lake productivity in alpine lake ecosystems over the last 1000 years*. University of Nottingham, Environmental and Geomorphological Sciences Research Seminar Series, Nottingham, England.

Slemmons KE, Saros JE (2012) *Release of nitrogen by melting glaciers: Effects on primary productivity and nutrient limitation patterns in alpine lake ecosystems*. 19th Annual Harold W. Borns Symposium, Climate Change Institute, University of Maine, Orono, Maine.

Saros JE, **Slemmons KE** (2011) *Nitrogen enrichment alters the structure and function of oligotrophic alpine lakes*. American Geophysical Union Fall Meeting, San Francisco, California.

Slemmons KE, Saros JE (2010) *Release of reactive nitrogen by melting alpine glaciers: Effects on diatom diversity in lake ecosystems over the last century*. American Society of Limnology and Oceanography (ASLO) Annual Meeting, Santa Fe, New Mexico (best poster award).

Saros JE, Stone JR, **Slemmons KE** (2010) *Deciphering the ecology of *Cyclotella sensu lato* taxa in oligotrophic lakes*. International Diatom Symposium, St. Paul, Minnesota.

Slemmons KE, Saros JE (2011) *Release of reactive nitrogen by melting glaciers: Effects on primary productivity and nutrient limitation patterns in alpine lake ecosystems*. 18th Annual Harold W. Borns Symposium, Climate Change Institute, University of Maine, Orono, Maine.

Slemmons KE, Saros JE (2010) *Release of reactive nitrogen by melting alpine glaciers: effects on diatom diversity in lake ecosystems over the last century.* 17th Annual Harold W. Borns Symposium, Climate Change Institute, University of Maine, Orono, Maine.

PROFESSIONAL ACADEMIC SERVICE

INTERNAL SERVICE

- 2020
- Executive Committee, Biology Department
 - Coordinator Natural Science teaching major
 - Department of Public Instruction, UWSP School of Ed - developed new Science License program
 - University Working Group for Online Teaching transition, COVID 19 (spring and fall).
 - CITL Online Engagement Rubric Development, Summer
 - Faculty Mentor for online course transition, CITL
 - Student Centered Committee
 - Critical Thinking Summer Working Group
 - Ronald Regan High School, Environment and Society Poster Judge
 - Tutoring and Learning Center (TLC), Search and Screen Academic Advisor
- 2019
- ViewPoint Days, Campus Tours
 - Center for Inclusive Teaching and Learning (CITL), Instructional Designer Search and Screen. Fall.
 - STEAM Day for Boys, What's for Dinner
 - Center for Inclusive Teaching and Learning (CITL), Instructional Designer Search and Screen. Spring.
 - Academic Decathlon Judge, UWSP
 - STEAM Day at Treehaven, What's Lurking in the Lake workshop
- 2018-present
- Student Recruitment and Retention Committee
 - Honors Program
 - STEAM program
 - College of Natural Resources Research Symposium Judge
- 2017-2019
- Executive Committee, Chair (2018-2019)
 - Critical Thinking Faculty Exploration Group & Pilot Program
- 2016-present
- Realignment of Introductory Biology Sequence (RIBS) Committee
- 2014-present
- Biology Department Advising
- 2013-present
- Professional Education Advisory Council (PEAC)

Science Student Teacher Supervision

- 2018 Center for Inclusive Teaching and Learning (CITL), Instructional Designer Search and Screen.
- 2017-2018 College of Letters and Science (COLS) Dean's Advisory Board
- 2017 View Point Day, Career Exploration
Online Grant Reviewer Center for Teaching and Learning (CITL)
- 2016 Molecular Biology Search and Screen Committee
College of Natural Resources Research Symposium Judge
- 2014-2016 Sustainable Communities Advisory Committee
Assessment and Program Review Committee, Chair (2014-2015)
- 2014-2015 College Day for Kids, Volunteer presenter
- 2015 Genetics Search and Screen Committee
Local Evaluator for edTPA: student teaching performance-based, subject-specific assessment for student teachers
- 2014 Biology Annual Retreat Planning Committee
- 2013-2014 Curriculum Committee

EXTERNAL SERVICE

- 2014-present Journal and Grant Peer Reviews
Aquatic Sciences, 2019
Journal of Paleolimnology, 2018
Limnology and Oceanography, 2018
Arctic, Antarctic and Alpine Research, 2017
Journal of Paleolimnology, 2017
Hydrobiologia, 2016
Mountain Research and Development, 2016
National Geographic Society (grant reviewer), 2015
Biogeosciences, 2015
Limnology and Oceanography, 2014
- 2013 Organizing Committee, 22rd North American Diatom Symposium, University of Maine
Representative to the Climate Change Institute, University of Maine
Mentor for Teaching Assistants, Introductory Biology, University of Maine
Aquatic Lab Group and Paleolimnology Lab Group organizer, University of Maine
- 2012-2013 Grant reviewer, Graduate Student Government grant, University of Maine
- 2008-2009 Running Start Program, Hawaii Community College

2008 Faculty search committee member, University of Hawaii
 2007 Project GRAD Summer Institute Instructor, Kenai Peninsula College
 2006-2007 Faculty mentor, Talawanda City Schools
 2005-2007 Supervising cooperating teacher to undergraduate students, Miami University,
 Science fair coordinator, Ninilchik Schools
 Curriculum alignment for Caring for the Kenai, Kenai Peninsula Borough Schools

PROFESSIONAL DEVELOPMENT & MEETINGS ATTENDED

2020 Association for the Sciences of Limnology and Oceanography, abstract submitted but conference canceled due to COVID

2019 Department of Public Instruction Science All Licensing Training

2018 European Large Lake Symposium & International Association for Great Lakes research Joint Conference, Evian, France.
 UWSP Train the Trainer, Canvas, Stevens Point WI
 Wisconsin Lakes Partnership Convention, Stevens Point, WI
 Women and Science Program's Spring Conference, Wisconsin Dells, WI

2017 Wisconsin Lakes Partnership Convention, Stevens Point, WI
 Center of Inclusive Teaching and Learning, Online Course Development, UWSP
 Critical Thinking Faculty Exploration Group, UWSP

2016 CUREs for Non-majors—Defining Questions, Community, and Priorities
 Workshop, Minneapolis, MN
 Powepoint Mix Training, UWSP
 Engaging Ideas for Online Instruction training, UWSP
 Critical Thinking Faculty Exploration Group, UWSP
 Office of Professional Instruction and Development Spring Conference on Teaching and Learning, UW-Systems
 Winter Institute, University of Wisconsin Teaching Fellows and Scholars, UW-Systems

2015 Summer Institute, University of Wisconsin Teaching Fellows and Scholars
 Faculty College, University of Wisconsin System
 Women and Science Fall Conference

2014 Screencasting your lectures, UW-SP
 Studying your student's learning: How to get started, Workshop, UWSP
 UW System edTPA Conference, UWSP
 edTPA Local Evaluation and Feedback Protocol Regional Training, UWSP
 College Day for Kids, UWSP
 UW System, Women and Science Program, Spring Conference, UWSP

2013 Experiential Learning Training, UWSP
 General Education Program (GEP) Training, UWSP

2011 National Science Foundation (NSF) communication workshop, "Becoming the Messenger," University of Maine

2006	Alaska Energy Conference workshop, "National Energy Education Development."
2005	Project GRAD workshop, "Managing cooperative groups." Talawanda City Schools
2003	Butler County Educational Service Center, Pathwise Level 1 Mentoring training.
2001	The America Meteorological Society, DataStreme Weather Education
2000	Hamilton Local Schools workshop, "Teaching students from poverty," and "Grading practices"

PROFESSIONAL LICENSES AND CERTIFICATIONS

2018-present	Teaching license in Biology, State of Wisconsin
1999-present	Teaching License in Biology and General Science, State of Ohio
2005-2008	Teaching Licenses in Biology and Chemistry, State of Alaska
1995-present	Certified SCUBA diver

PROFESSIONAL ASSOCIATIONS

International Society for Diatom Research
 International Association for Great Lakes Research
 North American Diatom Symposium
 American Geophysical Union
 American Association of University Women
 American Society of Limnology and Oceanography
 National Science Teachers Association

REPORTS

Slemmons (Holman) KE, Nagy E, Slaven K (2004) *Environmental analysis of a stretch of Mill Creek, Butler County, Ohio*. Public Service Project, Miami University.

Slemmons (Holman) KE (2002) *Colonization rates of sandy and sea grass habitats by juvenile tropical fish*. Tropical Marine Biology, Miami University.

King J and **Slemmons (Holman) K** (2000) *Mapping the geology of the Jamestown area, Colorado using GIS and GPS technology*. Earthworks Conference and the Cooperative Institute for Research in Environmental Science (CIRES). Boulder, Colorado.

Slemmons (Holman) K (1999) *The effects of stream flow on caddisfly larva cast placement and size*. Earthworks Conference and the Cooperative Institute for Research in Environmental Science (CIRES). Boulder, Colorado.