

# Elisabeth E. Schussler

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## Education

Ph.D. Plant Biology, Louisiana State University, 1997. Advisor: Dr. David Longstreth  
B.S. General Biology, Vanderbilt University, 1992. Undergraduate Advisor: Dr. William Eickmeier

## Professional Positions

Associate Professor, University of Tennessee, Department of Ecology and Evolutionary Biology,  
Knoxville, TN, 2014–present.

Assistant Professor, University of Tennessee, Department of Ecology and Evolutionary Biology, Knoxville,  
TN, 2009-2014.

Director of Biology Teaching and Learning, University of Tennessee, Knoxville, TN, 2009-present.

Assistant Professor, Miami University, Department of Botany, Oxford, OH, 2005-2009.

Student Programs Coordinator / Student Programs Specialist, Ruth Patrick Science Education Center,  
University of South Carolina-Aiken, Aiken, SC, 2002-2005.

Education Director, Southeastern Natural Sciences Academy / Phinizy Swamp Nature Park, Augusta, GA,  
2000-2002.

Instructor, Department of Biological Sciences, Louisiana State University, 1998-2000.

Research Associate, Museum Education, LSU Museum of Natural Science, 1998.

## Peer-Reviewed Publications

(\*graduate student; \*\*undergraduate student)

33. England, BJ, JR Brigati, EE Schussler. 2017. Student anxiety in introductory biology classrooms: Perceptions about active learning and persistence in the major. *PlosONE*.
32. Auerbach AJ and EE Schussler. In Press. A Vision and Change Reform of Introductory Biology Improves Faculty Perceptions and Use of Active Learning. *CBE Life Sciences Education*.
31. Dalrymple, SD, AJ Auerbach, and EE Schussler. In Press. Taking a community approach to curriculum development. *International Journal of Scholarship in Teaching and Learning*.
30. Auerbach AJ and EE Schussler. 2017. Curriculum Alignment with Vision and Change Improves Student Scientific Literacy. *CBE Life Sciences Education 16:ar29*.
29. Reeves, TD, G Marbach-Ad, KR Miller, J Ridgway, GE Gardner, EE Schussler, and EW Wischusen. 2016. A Conceptual Framework for Graduate Teaching Assistant Professional Development Evaluation and Research. *CBE Life Sciences Education 15: 1-9*.
28. Auerbach, AJ\*, and EE Schussler. 2016. Instructor Use of Group Active Learning in an Introductory Biology Sequence. *Journal of College Science Teaching 45(5): 67-74*.
27. Schussler, EE, Q Read\*, G Marbach-Ad, K Miller, and M Ferzli. 2015. Preparing Biology Graduate Teaching Assistants for their Roles as Instructors: An Assessment of Institutional Approaches. *CBE Life Sciences Education 14: 1-11*.
26. Kendall, KD\*, D Dittrich-Reed\*, M Niemiller\*, and EE Schussler. 2014. Helping graduate teaching assistants in biology use student evaluations as professional development. *American Biology Teacher 76(9): 584-588*.

25. Bautista, NU, EE Schussler, and SM Rybczynski. 2014. Instructional experiences of graduate assistants implementing explicit and reflective introductory biology laboratories. *International Journal of Science Education* 36(7): 1184-1209.
24. Kendall, KD\* and EE Schussler. 2013. The effect of instructor title on student instructional expectations. *International Journal for the Scholarship of Teaching and Learning* 8(1): Article 10. <http://digitalcommons.georgiasouthern.edu/ij-sotl/vol8/iss1/10>
23. Kendall, KD\* and EE Schussler. 2013. More than words: Probing the terms undergraduate students use to describe their instructors. *International Journal of Teaching and Learning in Higher Education* 25(2): 200-212.
22. Link-Pérez, MA and EE Schussler. 2013. Elementary botany: How teachers in one school district teach about plants. *Plant Science Bulletin* 59(3): 99-110.
21. Kendall, KD\*, M Niemiller\*, D Dittrich-Reed\*, LD Chick\*, L Wilmoth, A Milt\*, M Burt\*, N Lopes\*, L Cantwell\*, L Rubio\*, A Allison\*, and EE Schussler. 2013. Departments Can Develop Teaching Identities of Graduate Students. *CBE-Life Sciences Education* 12(3): 316-317.
20. Rybczynski, SM\* and EE Schussler. 2013. Effects of Instructional Model on Student Attitude in an Introductory Biology Laboratory. *International Journal for the Scholarship of Teaching and Learning* 7(2): <http://w3.georgiasouthern.edu/ijstl/v7n2.html>.
19. Schussler, EE, NU Bautista, MA Link-Pérez, NG Solomon, and BA Steinly. 2013. Instruction Matters for Nature of Science Understanding in College Biology Laboratories. *BioScience* 63(5): 380-389.
18. Kendall, KD\* and EE Schussler. 2013. Evolving Impressions: Undergraduate Perceptions of Graduate Teaching Assistants and Faculty Members over a Semester. *CBE-Life Sciences Education* 12: 92-105.
17. Kendall, KD\* and EE Schussler. 2012. Does Instructor Type Matter? Undergraduate Student Perception of Graduate Teaching Assistants and Professors. *CBE-Life Sciences Education* 11: 187-199.  
**\*Science magazine "Editors' choice" feature (Volume 336; 22 June 2012)**  
**\*\*One of eight articles selected for CBE-Life Sciences Education "Highlights of 2012" volume**
16. Schussler, EE and NU Bautista. 2011. Learning about Nature of Science in Undergraduate Biology Laboratories. In M. Khine (Ed.), *Advances in Nature of Science Research: Concepts and Methodologies* (Chapter 10, pages 207-224). Springer: New York.
15. Rybczynski, SM\* and EE Schussler. 2011. Student Use of Out-of-Class Study Groups in an Introductory Undergraduate Biology Course. *CBE-Life Sciences Education* 10: 74-82.
14. Schussler, EE, FE Rowland\*, CA Distel\*, JM Bauman\*, ML Keppler\*, Y Kawarasaki\*, MR McCarthy\*, A Glover\*, and H Salem\*. 2011. Promoting the Development of Graduate Students' Teaching Philosophy Statements. *Journal of College Science Teaching* 40(3): 32-35.
13. Keppler, ML\* and EE Schussler. 2010. Planting memories: What students learned about plants from a conservatory field trip. *Plant Science Bulletin* 56(3): 126-133.
12. Bautista, NU and EE Schussler. 2010. Implementation of an Explicit And Reflective Pedagogy in Introductory Biology Laboratories. *Journal of College Science Teaching* 40(2): 18-23.
11. Schussler, EE, MA Link-Pérez\*, KM Weber\*\*, and VH Dollo\*\*. 2010. Exploring Plant and Animal Content in Elementary Science Textbooks. *Journal of Biological Education* 44(3): 123-128.
10. Link-Pérez, MA\*, VH Dollo\*\*, KM Weber\*\*, and EE Schussler. 2010. What's in a Name: Differential Labeling of Plant and Animal Photographs in Two Nationally-Syndicated Elementary Science Textbook Series. *International Journal of Science Education* 32(9): 1227-1242.
9. Schussler, EE. 2008. From Flowers to Fruits: How Children's Books Represent Plant Reproduction. *International Journal of Science Education* 30(12): 1677-1696.

8. Schussler, EE and L Olzak. 2008. It's Not Easy Being Green: Student Recall of Plant and Animal Images. *Journal of Biological Education* 42(3): 112-118.
7. Schussler, EE, LE Torres\*, S Rybczynski\*, GW Gerald\*, E Monroe\*, P Sarkar\*, D Shahi\*, and MA Osman\*. 2008. Transforming the Teaching of Science Graduate Students Through Reflection. *Journal of College Science Teaching* 38(1): 32-36.
6. Schussler, E and J Winslow. 2007. Drawing on Students' Knowledge. *Science and Children* 44(5): 40-44.
5. Wandersee, JH and E Schussler. 2001. Toward a Theory of Plant Blindness. *Plant Science Bulletin* 47(1): 2-9.
4. Schussler, EE and DJ Longstreth. 2000. Changes in Cell Structure During the Formation of Root Aerenchyma in *Sagittaria lancifolia* (Alismataceae). *American Journal of Botany* 87(1): 12-19.
3. Wandersee, JH and EE Schussler. 1999. Preventing Plant Blindness. *The American Biology Teacher* 61(2): 82-86.
2. Schussler, EE and DJ Longstreth. 1996. Aerenchyma Develops By Cell Lysis in Roots and Cell Separation in Petioles of *Sagittaria lancifolia* (Alismataceae). *American Journal of Botany* 83(10): 1266-1273.
1. Eickmeier, WG and EE Schussler. 1993. Responses of the Spring Ephemeral *Claytonia virginica* L. to Light and Nutrient Manipulations and Implications for the "Vernal-dam" Hypothesis. *The Bulletin of the Torrey Botanical Club* 120(2): 157-165.

## Grant Funding (over \$4,000,000 in external funds)

### Current

- RCN-UBE: Biology Teaching Assistant Project (BioTAP 2.0): Advancing Research, Synthesizing Evidence. 2015-2020. National Science Foundation, Research Coordination Networks – Undergraduate Biology Education, \$499,685, PI (Co-PIs Gardner, Marbach-Ad, Miller, Ridgway).
- Concept, Competency, and Community-Driven Curriculum Reform in Undergraduate Biology Education (C<sup>3</sup>UBE). 2013-2016. National Science Foundation, TUES Program, \$181,951, PI (Co-PIs Alexandre, Reynolds, and Sanders).
- Collaborative Research: ASPIRE: Appalachian students promoting the integration of research in education. 2017-2022. National Science Foundation, S-STEM proposal, \$2,887,974, Co-PI (PI: Hardin; Co-PIs: Moazen, Gardner, Gibbons, Schussler)

### Previous

- REE-LEAF: Research and Education Experiences to Learn about Energy and Food. 2013-2014. UTK College of Agricultural Sciences and Natural Resources Collaboration and Innovation Teaching Award, \$15,000, Co-PI.
- Biology Teaching Assistant Project (BioTAP). 2012-2014. National Science Foundation, Research Coordinator Network-Undergraduate Biology Education Incubator, \$49,940, PI.
- MRI-R<sup>2</sup>: Acquisition of Dense Array EEG for Research and Training Across the Disciplines. 2010-2013. National Science Foundation, Major Research Instrumentation, \$222,750, Co-PI.
- Integrated Pedagogy to Promote Nature of Science and Scientific Inquiry in a College Biology Laboratory. 2008-2011. National Science Foundation, Course, Curriculum, and Laboratory Improvement Grant (phase I), \$199,352, PI.
- Celebrating the Science of DNA. 2007-2008. NIH, National Human Genome Research Institute's National DNA Day Program (Science Education Partnership Award), \$9,998, Co-PI.
- Psychophysiology: A Window into the Mind. 2007-2008. Miami University Research Incentive Program, \$49,980. Co-PI.
- Integrating the Nature of Science and Scientific Inquiry into the General Biology Laboratory Experience. 2007-2008. Miami University Top 25 Grant, \$28,328, PI.

Building a Learning Progression About Plants. 2007. College of Arts and Science Summer Research Grant, \$4,000, PI.

A Preliminary Assessment of Student Learning in BMZ Labs. 2006-2007. College of Arts and Science Small Grants Program, \$750, PI.

From Misconceptions to Illumination: Using Plants to Support Biological Education. 2006-2007. Ohio Board of Regents Improving Teacher Quality State Grants Program, \$150,000, Co-PI.

A Partnership to Facilitate Student Learning About Plants. 2006-2007. Science Partnership Research Associates Program (Miami University Partnership Office), \$2,000, PI.

Teachers' Perspectives and Practices in Teaching About Plants. 2006-2007. Miami University Committee on Faculty Research award, \$7,700, plus a graduate research assistant position, PI.

## Honors and Awards

Chancellor's Excellence in Teaching Award, 2017

UT Alumni Association Outstanding Teacher Award, 2016

UTK Leadership Program, 2015-2016.

National Academies Education Mentor in the Life Sciences, 2014-2015.

Junior Faculty Excellence in Teaching Award, College of Arts and Sciences, 2012.

National Academies Education Fellow in the Life Sciences, 2012-2013.

Center for Excellence in Learning and Teaching, Teaching Excellence Award, Miami University, 2008.

E. Phillips Knox Undergraduate Teaching Award Finalist, Miami University, 2008.

## Invited Talks and Working Groups

Invited Symposium Keynote, Florida Wildflower Society, Orlando, FL, September, 2017.

Invited Seminar Speaker, University of Nebraska, Omaha, March, 2017.

Invited Symposium Speaker, National Native Seed Conference, Washington DC, February 2017.

Departmental Seminar Speaker, Appalachian State University, October, 2016.

Invited Keynote, HHMI Academies for Scientific Teaching, Southeastern Institute, July, 2016.

Invited Participant, AAAS Symposium Envisioning the Future of Undergraduate STEM Education: Research and Practice. Washington DC, April, 2016.

Invited Panelist, Faculty positions in academia, Program for Excellence and Equity in Research, STEM Career & Professional Symposium, 2016.

Invited Attendee and Poster Presenter, Gordon Conference on Undergraduate Biology Education Research, Bates College, Lewiston, ME, July, 2015.

Departmental Seminar Speaker, Middle Tennessee State University, April, 2015.

Invited participant, "synthesis" meeting of the faculty developer network for undergraduate biology education (an NSF RCN program), Atlanta, GA, November, 2014.

Departmental Seminar Speaker, Oklahoma State University, March 12, 2014.

Invited participant, Vision and Change in Undergraduate Biology Education: Chronicling Change, Inspiring the Future, Washington DC, 2013. 150 people were selected nationally to present their current research and curriculum changes to identify models for change in introductory biology.

Organizer and participant in the Biology Teaching Assistant Project (BioTAP) Working Group, Knoxville, TN, 2013. Brought together eleven faculty, post-docs and graduate students to consider the current and future practices of graduate student professional development to teach Introductory biology.

National Academies Summer Institute on Undergraduate Education in Biology, Athens, GA, 2012. A five-day workshop for invited participants to apply scientific teaching principles to their classes.

Participant, Introductory Biology Project Meeting, Washington DC, 2012. A select group of academics working to gather ideas and make plans to change introductory biology across the US.  
Deans, Directors and Department Heads Retreat, College of Arts and Sciences, UTK, 2012  
Invited participant, Vision and Change in Undergraduate Biology Education, Washington DC, 2009. An initial gathering of faculty, post-docs, graduate students and undergraduates to set a new vision for introductory biology instruction across the US.

## Teaching Experience

### University of Tennessee-Knoxville

Organismal and Ecological Biology (Biology 150; Majors) – Fall 2014, Fall 2015, Fall 2016  
Biodiversity (Biology 130; Majors) – Fall 2010, 2011, 2012, 2013  
Biological Education: Theory and Practice (EEB 598) – Spring 2010, 2013, 2015, 2017  
Modern Issues in Science Education (EEB 504) – Spring 2011

### Miami University

Biological Concepts (BMZ 115; Mixed Majors) – Fall 2005, 2006, 2007  
Environmental Education (Botany / Zoology 351) – Spring 2006, 2008  
Biological Science Education (Bot 688) – Spring 2007, 2009  
Graduate Seminar, Critical Thinking in Higher Education – Spring 2008

### Louisiana State University

Non-majors Biology (Bio 1001 and 1002) – 3 classes each semester

## Mentoring and Service on Graduate Committees

### **Current Students**

Miranda Chen (Ph.D. student, University of Tennessee, Knoxville)  
Margaurete Romero (Ph.D. student, University of Tennessee, Knoxville)

### **Graduated Students**

Anna Jo Auerbach (Ph.D. University of Tennessee, Knoxville; Post-doc University of Georgia)  
K. Denise Kendall (Ph.D., University of Tennessee, Knoxville; Post-doc University of Kentucky; Director of the Biology Merit Program, University of Illinois-Champaign)

*\*One of six Division of Biology winners of a Science Alliance award in 2013*

Stephen Rybczynski (Ph.D., Miami University; Post-doc, University of Oklahoma; Assistant Professor, Grand Valley State University)

Claire Larkin (M.S., Miami University; Mad River Middle School, Riverside, OH)  
Mary Keppler (M.A., Miami University; Environmental Educator, Hamilton County Civic Gardens)

### **Post-doctoral Mentoring**

Dr. Sarah Dalrymple (Instructional Professional, Arizona State University)  
Dr. Benjamin England (Postdoctoral Associate, University of Tennessee, Knoxville)

### **Graduate Committee Member**

Beth White (Ph.D. 2016, University of Tennessee-Knoxville, Educational Psychology and Research)  
Cassie Dresser (Ph.D. 2017, University of Tennessee-Knoxville, EEB)  
Melissa Mink (M.S. 2010, University of Tennessee-Knoxville, Teacher Education)  
Mirabai McCarthy (Ph.D. 2012, Miami University, Botany)  
Melanie Link-Pérez (Ph.D. 2010, Miami University, Botany)  
Neela Kumar (Ph.D. 2008, Miami University, Botany)  
James Reboulet (M.S. 2008, Miami University, Botany)

## Departmental/Division Service

Leader, Introductory Biology Curriculum Revision Community, 2012 – present.

*Lead regular meetings of the Instructors of the Introductory Biology courses at UTK to plan for curriculum changes and improve instructional practices*

Search Committee, Conservation Biology Faculty Search, EEB, 2015 – 2016.

Graduate Admissions Committee, EEB Department, 2014-present.

Division of Biology Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) Assessment Coordinator, 2014-present.

Chair, Task Force for Undergraduate Core Curriculum, Division of Biology, 2010-2012.

*Led a group of faculty from three Biology Departments through the process of creating a new core curriculum for Biology majors at UTK. Articulated plan, garnered departmental support for changes, and completed curriculum submission for the University.*

New Biology Graduate Student Orientation, Division of Biology, 2010-2016.

*Co-created and co-teach a teaching preparation workshop for new biology GTAs at UTK.*

Undergraduate Curriculum Committee, EEB Department, 2010-2014.

*Worked with the chair and committee to create and present a new EEB curriculum for the department; successfully approved by the department and college.*

Research Committee, Botany Department, Miami University, 2005-2009 (chair, Fall 2006).

*Read and voted on small grant proposals for graduate student research support.*

## University Service

Steering Committee, University of Tennessee CIRTL, 2016 – present.

Transfer Task Force, 2016 – present.

General Education Taskforce Committee, 2015 – 2017.

Search Committee, Associate Dean for Academic Programs, College of Arts and Sciences, 2016.

Milestone Review Committee for the Vol Vision / Top 25 Strategic Plan, 2015 – 2016.

Search Committee, Biology Advisor, College of Arts and Sciences, 2015.

Search Committee, Head, Department of Ecology and Evolutionary Biology, 2014 - 2015.

College Curriculum Committee, University of Tennessee, 2013 - present.

Natural Sciences Curriculum Committee, University of Tennessee, 2009 - present.

University of Tennessee Learning Consortium, 2013-2015.

Honors Curriculum Task Force, University of Tennessee, 2013 - 2014.

Search Committee, Director, Tennessee Teaching and Learning Center, 2013 - 2014.

Search Committee, Assistant Director, Tennessee Teaching and Learning Center, 2013.

Strong Hall Bid Design and Steering Committee, University of Tennessee, 2013.

Selection Committee, Haslam Scholars Program, University of Tennessee, 2010 - 2013.

Judge, Tennessee Junior Science and Humanities Symposium, University of Tennessee, 2010, 2012.

Search Committee, Director, Center for the Enhancement of Learning and Teaching, Miami University, 2008-2009.

Graduate Certificate in College Teaching Committee, Miami University, 2007-2009.

Miami University College of Education and Allied Professions NCATE committee (National Council for the Accreditation of Teacher Education), At-large member, 2007-2008.

Senate Subcommittee on Student Class Evaluations, Miami University, 2007.

## Professional Service

Editorial Board, *CBE Life Sciences Education*, 2017-2020.

Editorial Board, *International Journal for the Scholarship of Teaching and Learning*, 2015-present.

Education Committee, Botanical Society of America, 2012-2015.

Education Committee, Tennessee Academy of Science, 2011-2014.

Editorial Committee, *Plant Science Bulletin*, 2009-2014.

Reviewer for *BioScience*, *CBE-Life Sciences Education*, *International Journal of Science Education*, the *International Journal for the Scholarship of Teaching and Learning*, *Science and Education*, the *Handbook of Research in History, Philosophy, and Science and Mathematics Teaching*, and *Plant Science Bulletin*.

Panelist for NSF CCLI Phase I Grant Proposals, 2008.

## Presentations

(\*graduate student; \*\*undergraduate student)

Marbach-Ad, G, E Schussler, G Gardner, K Miller, J Ridgway. 2017. A Network for Research on Biology Graduate Teaching Assistant Teaching Professional Development. AAC&U Transforming STEM Higher Education Conference, San Francisco, CA.

England, E, E Schussler, J Brigati. 2017. Active Learning, Anxiety, and Alienation: Potential Impacts on Student Persistence and Success. National Meeting of the Society for the Advancement of Biology Education Research, Minneapolis, MN.

Chen, M, E Schussler. 2017. The PhD Panic: Examining the Factors and Impacts of Teaching Anxiety in Biology Graduate Students. National Meeting of the Society for the Advancement of Biology Education Research, Minneapolis, MN.

Romero, M, B England, E Schussler, J Brigati. 2017. Active Learning as a Source of Differential Anxiety for female and Underrepresented Students in Introductory Biology Courses. National Meeting of the Society for the Advancement of Biology Education Research, Minneapolis, MN.

Schussler, E, G Gardner, G Marbach-Ad, K Miller, J Ridgway. 2017. Networking for Change: Assessing the Capacity for Research on Graduate Student Teaching Professional Development. National Meeting of the Society for the Advancement of Biology Education Research, Minneapolis, MN.

Miller, K, G Gardner, G Marbach-Ad, J Ridgway, E Schussler. 2017. BioTAP 2.0 (Biology Teaching Assistant Project): Engaging individuals in scholarly research about biology graduate teaching assistant teaching professional development (GTA TPD) programs. 39th Annual ABLE Meeting at University of Wisconsin – Madison.

Gardner, G, E Schussler, G Marbach-Ad, K Miller, J Ridgway. 2017. The Biology Teaching Assistant Project 2.0: Advancing research, synthesizing evidence. Paper presented at the annual meeting of the Tennessee STEM Education Research Conference hosted by Tennessee STEM Education Center (TSEC), Murfreesboro, TN.

England, B, J Brigati, E Schussler. 2016. Some Students Experience Anxiety in Active Learning Classrooms. National Association of Biology Teachers (NABT), Annual Conference, Denver, CO.

Schussler, E, M Chen. 2016. BioTAP: A National Network to Guide GTA Teaching Professional Development Programs. Teaching and Learning Innovation Symposium: Reimagining Teaching, The University of Tennessee.

England, B, J Brigati, E Schussler. 2016. Sources of Student Anxiety in Active Learning Classrooms. Teaching and Learning Innovation Symposium: Reimagining Teaching, The University of Tennessee.

- Brigati, J, B England, E Schussler. 2016. Why Do We Have to Do This? Helping Your Students Understand Why You Use Active Learning In the Classroom. American Society for Microbiology Conference for Undergraduate Educators, North Bethesda, MD, July 21 – 24.
- Schussler, E. 2016. Vision and Changing introductory biology at the University of Tennessee, Knoxville. Southeast SI Keynote presentation (see invited presentations above).
- Auerbach, AJ\* and E Schussler. 2016. How a Vision and Change reform of introductory biology improves faculty perceptions and use of active learning. National Meeting of the Society for the Advancement of Biology Education Research, Minneapolis, MN.
- Dresser, C.\*, J Brigati, and E Schussler. 2016. Comparison of student engagement and learning outcomes among three commonly used active learning approaches. National Meeting of the Society for the Advancement of Biology Education Research, Minneapolis, MN.
- England, B, E Schussler, J Brigati. 2016. Warning: Active learning may cause anxiety. National Meeting of the Society for the Advancement of Biology Education Research, Minneapolis, MN.
- Schussler, E. 2016. Concept, Competency, and Community-Driven Curriculum Reform in Undergraduate Biology Education (C3UBE). AAAS EnFUSE Symposium (see invited section above)
- Schussler, E, S Dalrymple, AJ Auerbach\*. 2015. Engaging the community in change: Reflection and challenges. Gordon Research Conference on Undergraduate Biology Education, Bates College, ME.
- Auerbach, AJ\*, E Schussler. 2015. How does curriculum reform impact student scientific literacy? National Meeting of the Society for the Advancement of Biology Education Research, Minneapolis, MN.
- Schussler, E, AJ Auerbach\*. 2015. Engaging in the study of classroom engagement. National Meeting of the Society for the Advancement of Biology Education Research, Minneapolis, MN.
- Dalrymple, S, E Schussler, AJ Auerbach\*. 2015. Taking a community approach to curriculum reform. National Meeting of the Society for the Advancement of Biology Education Research, Minneapolis, MN.
- Schussler, E, J Ridgway, G Gardner, K Miller, G Marbach-Ad. 2015. Networking to promote the assessment of GTA professional development. National Meeting of the Society for the Advancement of Biology Education Research, Minneapolis, MN.
- Auerbach, AJ\*, E Schussler. 2015. Examination of faculty instructional practices and perceptions in the context of reform: Year 3. National Meeting of the Society for the Advancement of Biology Education Research, Minneapolis, MN.
- Marbach-Ad, G, EE Schussler, K Miller, M Ferzli, and QD Read\*. 2015. Professional Development for Biology Graduate Teaching Assistants: Status, Challenges and Needs. National Association for Research in Science Teaching [NARST] annual meeting, Chicago, IL.
- Schussler, E. 2014. Vision and change in the department and across the curriculum. Part of the symposium: Vision and change in undergraduate botany education. National Meeting of the Botanical Society of America, Boise, Idaho. INVITED.
- Schussler, E. 2014. Fifteen years of plant blindness: Is our vision improving? National Meeting of the Botanical Association of America, Boise, Idaho.
- Schussler, EE, Q Read\*, M Ferzli, R Hainaj, KD Kendall, J Luft, G Marbach-Ad, K Miller, S Musante, K Tanner, and EW Wischusen. 2014. A National Survey of Biology GTA Professional Development: Preliminary Recommendations for Best Practices. National Meeting of the Society for the Advancement of Biology Education Research, Minneapolis, MN.
- Dalrymple, S, E Schussler. 2014. Training graduate teaching assistants to use active learning in introductory biology labs. National Meeting of the Society for the Advancement of Biology Education Research, Minneapolis, MN.

- Auerbach, AJ\*, E Schussler. 2014. Examination of faculty instructional practices and perceptions in the context of reform: The second year. National Meeting of the Society for the Advancement of Biology Education Research, Minneapolis, MN.
- Miller, K, E Schussler, S Dalrymple, M Ferzli, R Hainaj, KD Kendall, J Luft, G Marbach-Ad, S Musante, K Tanner, EW Wischusen, AJ Auerbach\*. 2013. Biology Teaching Assistant Project (BioTAP). Meeting of the National Association of Biology Teachers, Atlanta, GA.
- Musante, S, Schussler, E, K Miller, S Dalrymple, M Ferzli, R Hainaj, KD Kendall, J Luft, G Marbach-Ad, K Tanner, EW Wischusen, AJ Auerbach\*. 2013. Biology Teaching Assistant Project (BioTAP). National Meeting of the Professional & Organizational Development (POD) Network in Higher Education, Pittsburgh, PA.
- Schussler, EE and AJ Auerbach\*. 2013. Collaboration and Reform at the University of Tennessee. Vision and Change in Biology Undergraduate Education: Chronicling Change, Inspiring the Future. Washington DC.
- Schussler, E, K Miller, S Dalrymple, M Ferzli, R Hainaj, KD Kendall, J Luft, G Marbach-Ad, S Musante, K Tanner, EW Wischusen, AJ Auerbach\*. 2013. Biology Teaching Assistant Project (BioTAP): Refining professional development for innovative teaching. National Meeting of the Botanical Society of America, New Orleans, LA.
- Auerbach, AJ\* and E Schussler. 2013. Examination of faculty instructional practices and perceptions in the context of reform. National Meeting of the Society for the Advancement of Biology Education Research, Minneapolis, MN.
- Schussler, E, S Dalrymple, M Ferzli, R Hainaj, KD Kendall, J Luft, G Marbach-Ad, K Miller, S Musante, K Tanner, EW Wischusen, AJ Auerbach\*. 2013. Biology Teaching Assistant Project (BioTAP): A collaborative network to meet the challenge of GTA professional development. National Meeting of the Society for the Advancement of Biology Education Research, Minneapolis, MN.
- Connell, RK\*\*, EE Schussler, AJ Auerbach\*, and SZ Guffey. 2013. Factors Affecting Disconnect in an Undergraduate Biology Course. Exhibition of Undergraduate Research and Creative Achievement (EURECA), University of Tennessee-Knoxville, TN.
- Schussler, EE and JK Hickson\*\*. 2012. Changing undergraduate confidence in a large introductory biodiversity course. National Meeting of the Ecological Society of America, Portland, OR.
- Kendall, KD\* and EE Schussler. 2012. Undergraduates Stereotype Me? Undergraduate Student Ratings of Faculty Versus Graduate Teaching Assistants, National Meeting of the Botanical Society of America, Columbus, OH.
- Schussler, EE and KD Kendall\*. 2012. Assessing Biology Knowledge Development. Introductory Biology Project Conference, Washington DC.
- Jacobs, N, G Reiness, E Schussler, and R Spell. 2012. Authentic Research Experiences in Laboratory Courses. Introductory Biology Project Conference, Washington DC.
- Kendall, KD\* and EE Schussler. 2012. Undergraduate Explanations of Instructional Behaviors. National Meeting of the Association of Biology Laboratory Educators, Chapel Hill, NC.
- Hickson, JK\*\* and EE Schussler. 2012. Trends in Student Confidence Over a Semester of Introductory Biology. Exhibition of Undergraduate Research and Creative Achievement (EURECA), University of Tennessee – Knoxville, TN. \*\* *winner of Biology Division award*
- Rybczynski, SM\* and EE Schussler. 2011. Effects of inquiry vs. direct instruction on student attitude towards biology lab. National Meeting of the Botanical Society of America, St. Louis, MO.
- Kendall, KD\* and EE Schussler. 2011. Does instructor title matter? Undergraduate perception of biology graduate teaching assistants. National Meeting of the Ecological Society of America, Austin, TX.
- Bautista, NU, EE Schussler, KA Haverkos\*. 2011. Investigating undergraduate students' perception of tentativeness of scientific knowledge in an explicit / reflective biology laboratories. National Meeting of the American Educational Research Association (AERA), New Orleans, LA.

- Bautista, NU, EE Schussler, KA Haverkos\*, MA Link-Pérez. 2011. What changes undergraduate students' perception of the tentative and creative nature of science? National Meeting of the National Association for Research in Science Teaching (NARST), Orlando, FL.
- Schussler, EE. 2011. Differential Understandings of Nature of Science Among Undergraduate Biology Students. National Meeting of the National Association for Research in Science Teaching (NARST), Orlando, FL.
- Rybczynski, SM\* and EE Schussler. 2010. Factors affecting student attitude: A comparison of inquiry vs. expository undergraduate biology laboratories. National Meeting of the Botanical Society of America, Providence, RI.
- Schussler, EE. 2010. Are You Plant Blind? Spring Wildflower Pilgrimage, Gatlinburg, TN.
- Schussler, EE, NU Bautista and MA Link-Pérez\*. 2010. Undergraduate and Teaching Assistant Nature of Science Understanding in an Explicit / Reflective Biology Laboratory. National Association for Research in Science Teaching National Meeting, Philadelphia, PA.
- Bautista, NU and EE Schussler. 2010. Exploring Graduate Assistants' Experiences with Explicit and Reflective Approach to Teaching Nature of Science in College Biology Laboratories. National Meeting of the Association for Science Teacher Education, Sacramento, CA.
- Rybczynski, SM\* and EE Schussler. 2009. Out-of-class Study Group Usage in an Introductory Biology Course. National Meeting of the Botanical Society of America, Snowbird, UT.
- Schussler, EE. 2009. How Does Plant Naming Grow? National Meeting of the Society for Economic Botany, Charleston, SC.
- Schussler, EE, NU Bautista, NG Solomon, BA Steinly, and RJ Hickey. 2009. Promoting an Understanding of Nature of Science and Scientific Inquiry in a College Biology Laboratory. Transforming Undergraduate Biology Education: Mobilizing the Community for Change Conference (AAAS and NSF), Washington DC, July 15-17.
- Weber, KM\*\* and EE Schussler. 2009. Spotlighting Plant and Animal Information in Elementary Science Textbooks. Miami University Undergraduate Research Forum, Oxford, OH.
- Intorcio, AM\*\*, AC Clark\*\*, MN Royer\*\*, EE Schussler, and PM Wessels. 2009. Green with Envy: Plant Recognition Suffers at the Expense of Animal Knowledge. Miami University Undergraduate Research Forum, Oxford, OH.
- Bautista, NU and EE Schussler. 2009. Investigating Preservice Teachers' Understanding of Nature of Science and Scientific Inquiry in a College Biology Laboratory. National Meeting of the Association for Science Teacher Education, Hartford, CT.
- Schussler, EE and NU Bautista. 2008. Integrated Pedagogy to Promote Understanding of Nature of Science and Scientific Inquiry in Biology Laboratories. Regional Meeting of the National Science Teachers Association, Cincinnati, OH.
- Schussler, EE and SM Rybczynski\*. 2008. Plant versus Animal Content in Elementary Science Textbooks. National Association for Research in Science Teaching National Meeting, Baltimore, MD.
- Rybczynski, SM\* and EE Schussler. 2008. Student preconceptions of the role of pollen in the plant life cycle. National Association for Research in Science Teaching National Meeting, Baltimore, MD.
- Schussler, EE, MA Link-Pérez\*, VH Dollo\*\*, and KM Weber\*\*. 2007. Plant Parts and Animal Wholes: What Students Could Learn from Elementary Science Textbooks. Botanical Society of America National Convention, Chicago IL.
- Schussler, EE and MA Link-Pérez\*. 2007. Botany: It's Elementary! Botanical Society of America National Convention, Chicago, IL.
- Link-Pérez, MA\*, KM Weber\*\*, VH Dollo\*\*, and EE Schussler. 2007. What's in a Name: Bias in Labeling of Plant and Animal Photographs in Elementary Science Textbooks. Botanical Society of America National Convention, Chicago, IL.

- Schussler, EE. 2007. Examining Plant Reproduction in Children's Science Trade Books. National Association of Research on Science Teaching National Meeting, New Orleans, LA.
- Schussler, EE. 2006. Probing Student Understanding: A Nature of Science Case Study. Lilly Conference on College Teaching, Oxford, OH.
- Schussler, EE and LA Olzak. 2006. It's Not Easy Being Green: Addressing Plant Blindness When Teaching. Ecological Society of America National Convention, Memphis, TN.
- Radina, ME, C Hay-Rollins, L Morimoto, SS Rollie, EE Schussler and N Uludag. 2006. Creating and Critiquing a Qualitative Research Writing Community. Miami University Qualitative Research Symposium, Oxford, OH.
- Wandersee, JH and EE Schussler. 2000. Prove That Plants Can Move: Use Time-Lapse Photography. National Association of Biology Teachers National Convention.
- Wandersee, JH and EE Schussler. 2000. Teaching Using 4,700 Images of Plants. State Meeting of the Louisiana Science Teachers Association.
- Wandersee, JH and EE Schussler. 1999. The Case for Increased Emphasis on Plants. National Association of Biology Teachers National Convention.
- Wandersee, JH and EE Schussler. 1999. Environmental Literacy and the Problem of Plant Blindness. Louisiana State Environmental Education Symposium.
- Wandersee, JH and EE Schussler. 1998. How to Prevent Plant Blindness. State Meeting of the Louisiana Science Teachers Association.
- Schussler, EE, O Borksenhious, and DJ Longstreth. 1997. Root Aerenchyma Development Involves Programmed Cell Death in *Sagittaria lancifolia*. National Meeting of the American Society of Plant Physiologists.
- Schussler, EE, O Borksenhious, and DJ Longstreth. 1997. Root Aerenchyma Development Involves Programmed Cell Death in *Sagittaria lancifolia*. Southern Sectional Meeting of the American Society of Plant Physiologists.
- Schussler, EE and DJ Longstreth. 1996. Aerenchyma Development in Wetland Plants. National Meeting of the American Society of Plant Physiologists.
- Schussler, EE and DJ Longstreth. 1996. Aerenchyma Development in *Sagittaria lancifolia*. Southern Sectional Meeting of the American Society of Plant Physiologists.
- Eickmeier, WG and EE Schussler. 1993. Responses of the Spring Ephemeral *Claytonia virginica* L. to Light and Nutrient Manipulations and Implications for the "Vernal-dam" Hypothesis. National Meeting of the Ecological Society of America.