

Laura A. Guertin

Curriculum Vitae

Distinguished Professor of Earth Sciences
Penn State Brandywine (formerly Delaware County)
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Education

Ph.D., Marine Geology and Geophysics, University of Miami, Rosenstiel School of Marine & Atmospheric Science, Miami, Florida 1998

Dissertation: A Late Cenozoic Mixed Carbonate/Siliciclastic System, South Florida: Lithostratigraphy, Chronostratigraphy, and Sea-Level Record

B.A., Geology, Bucknell University, Lewisburg, Pennsylvania 1992
Oceanography field program, Wallops Island Field Station, VA (Summer 1990)
Boston University Marine Program, Woods Hole, MA (Fall semester, 1990)

International/National Awards and Honors

2024 – BTAA Data Visualization Challenge, top award winner for faculty/staff category

2022 – Elected Fellow, American Association for the Advancement of Science (AAAS)

Honored for outstanding contributions in teaching Earth science as an inquiry-based means to scientific literacy regardless of eventual major or career, especially using digital media effectively.

2022 – Association for Women Geoscientists (AWG) Outstanding Educator Award

2020 – *Journal of Geoscience Education* Outstanding Reviewer Award

2016 – SEG Wiki Champion Award, from the Society of Exploration Geophysicists

2015 – *INSIGHT Into Diversity* Inspiring Women in STEM Award (Top 100 Women in STEM from across the United States)

2015 – Elected Fellow, Geological Society of America

For her complete devotion to undergraduate education on the local and national stage, for her dedication to training the next set of geoscience teachers, for her cutting-edge research involving technology in geoscience education, and for her leadership in the geoscience educational community.

2015 – United States Senate Certificate of Special Recognition, from U.S. Senator Patrick Toomey, for participation in NOAA's 2014 Field Season

2015 – Dean's List of 50 Must-Read Higher Education IT Blogs (for AGU Blog GeoEd Trek) from *EdTech: Focus on Higher Education*

2009 – Biggs Earth Science Teaching Award, Geoscience Education Div/Geological Society of America

2008 – U.S. Congressional citation honoree, awarded a Congressional Citation by Delaware County U.S. Representative Joe Sestak for civic and community engagement efforts

2003 – Project Kaleidoscope's Faculty for the 21st Century Network (PKAL-F21)

1997 – Merit Award, American Association of Petroleum Geologists (AAPG) [graduate school]

1997 – TEXACO fellowship for outstanding doctoral dissertation research [graduate school]

1993 – SEPM (Society for Sedimentary Geology) SED (Student Excellence and Development)

award, presented to an outstanding student in sedimentary geoscience [graduate school]

State Awards

- 2018 - Pennsylvania Environmental Resource Consortium (PERC) Campus Sustainability Champion (for work as co-chair of campus Sustainability Team)
- 2015 - Distinguished Teacher Award, Pennsylvania Geographical Society
- 1995 - Outstanding Student Paper Award, Geology & Hydrology Section, Florida Academy of Sciences Annual Meeting (FL)

Penn State Awards and Honors

Teaching and Research Awards/Recognition

- 2023 – The Lattman Visiting Scholar of Science and Society Lecture, College of Earth & Mineral Sciences, Pennsylvania State University
- 2020 - The President’s Award for Excellence in Academic Integration, Pennsylvania State University (university-wide award for integration of teaching, research, and creative accomplishments)
- 2019 - Teaching and Learning with Technology Impact Award, Pennsylvania State University (university-wide teaching award)
- 2015 - The Distinguished Teacher Award, Penn State Brandywine
- 2013 - The George W. Franz Advising and Mentoring Award, Penn State Brandywine
- 2013 - The Faculty Research Program Award, Penn State Brandywine
- 2010-2013 - Jane E. Cooper Memorial Faculty Fellowship, Penn State Brandywine
- 2010-2011 - Teaching and Learning with Technology Faculty Fellow with Education Technology Services, Pennsylvania State University (university-wide fellowship)
- 2009 - Undergraduate Research Mentor Award (first-ever recipient), Penn State Brandywine
- 2006 - George W. Atherton Award for Excellence in Teaching, Pennsylvania State University (university-wide teaching award)
- 2005-2007 - Fellow in Dutton e-Education Institute, College of Earth and Mineral Sciences, Pennsylvania State University
- 2005 - Award for Teaching Excellence, Penn State Commonwealth College (college award)

Service Awards

- 2018 - Teamwork Award, Penn State Brandywine
- 2018 - Club Adviser of the Year, Penn State Brandywine
- 2012 - Student Affairs Excellence Award, Penn State Brandywine
- 2008 - Club Adviser of the Year, Penn State Brandywine
- 2006 - Club Adviser of the Year, Penn State Delaware County
- 2006 - Student Government Association: Most Involved on Campus, PSU Delaware County
- 2004 - Woman of the Year, Penn State Delaware County Women’s Commission
- 2004 - Delaware County Heritage Society Award for “Tombstones and Spirits” (w Dr. Cole, Kirker)
- 2002 - Student Government Association Outstanding Service Award, PSU Delaware County

Employment History

- 2022-present: Distinguished Professor, Penn State Brandywine (PA)
 - Penn State Institutes of Energy and the Environment Affiliate Researcher (May 2020-present)
 - Penn State Sustainability Institute Affiliate (June 2019-present)
- 2015-2021: Professor, Penn State Brandywine (PA)

- 2007-2015: Associate Professor, Penn State Brandywine (formerly Delaware County) (PA)
 2001-2007: Assistant Professor, Penn State Delaware County (PA)
 2000-2001: Professional Academic Adviser, University of Colorado at Boulder (CO)
 1998-2000: Senior Lecturer, Mary Washington College (VA)
 - Recipient of Outstanding Faculty Member Award (2000)
 1992-1996: Graduate Student Teaching Assistant, University of Miami (FL)
 Recipient of Graduate Dean Fellowship, University of Miami/RSMAS (1997)
 1992: Undergraduate Student Teaching Assistant, Bucknell University (PA)

Teaching Experience

- Earth and Mineral Sciences, Penn State Brandywine (2001 – present)
 - *Teaching primarily introductory-level courses for non-science majors in the disciplines of Earth Science, Environmental Science, Environmental Studies, Environmental Resource Management, Geography, Geoscience, Honors, Science/Technology/Society, and First-Year Seminar. Courses taught face-to-face, hybrid, online (asynchronous and remote synchronous), and study abroad. A select listing of courses is included here. Courses in bold indicate my current course rotation, all of which count towards the Penn State certificate in Earth Sustainability.*
 - EARTH 100 (GN): Environment Earth
 - EARTH 101 (GN:US): Natural Disasters: Hollywood vs. Reality
 - **EARTH 103N (GN:GS): Earth in the Future: Predicting Climate Change & its Impacts**
 - **EARTH 104N (GN:GS): Climate, Energy and Our Future**
 - EARTH 105 (GN:GS:IL): Environments of Africa: Geology and Climate Change
 - **EARTH 107N (GN:GS): Coastal Processes, Hazards and Society**
 - **EARTH 111N (GN:GS:US): Water: Science and Society**
 - EARTH 150 (GN): Dinosaur Extinctions and Other Controversies
 - ENVST 400W: Senior Seminar in Environmental Studies
 - ERM 210 (GN): Environmental Factors and Their Effect on Your Food Supply
 - **GEOG 3N (GN:GS): Food and the Future Environment**
 - GEOG 115 (GN): Landforms of the World
 - GEOSC 20 (GN): Planet Earth
 - GEOSC 21 (GN): Earth and Life: Origin and Evolution
 - GEOSC 40 (GN): The Sea Around Us
 - STS 130: World Food Problems
 - STS 200 (GS): Critical Issues in Science, Technology, and Society
 - STS 201 (GN): Climate Change, Energy, and Biodiversity
 - HONOR 301H: The Role of Knowledge in Society
 - HONOR 493H: Honors Service Learning
- Senior Lecturer, Department of Environmental Science and Geology, Mary Washington College [renamed University of Mary Washington] (1998 - 2000)
 - Introductory Geology, Evolution of the Earth, Marine Coastal Processes, Paleontology
 - Team instructor in The Global Ocean course for the Masters of Liberal Studies Program
 - Instructor for the Fredericksburg Regional Commonwealth Governor's High School Summer Program: Digging the Summer (2000)
 - Instructor/Organizer for the second Mary Washington College/Commonwealth Governor's High School Summer Enrichment Program: To Dinosaurs and Back (2000)

- Instructor/Organizer for the first Mary Washington College/Commonwealth Governor's High School Summer Enrichment Program: Rivers - From Fredericksburg to Mars (1999)
- Teaching Assistant with introductory-level courses, Department of Geological Sciences, University of Miami (1992-1996)
 - *The Solid and Fluid Earth, Physical Geology, Origin and Evolution of Planet Earth, Evolution of the Modern Earth's Environment*
- Teaching Assistant, Department of Geology, Bucknell University (1992)
 - *Historical Geology*

Current External Grant Work

- National Science Foundation: "Conference: Building Capacity: A Virtual Workshop for Two-Year College Geoscience Faculty to Develop National Science Foundation Grant Proposals." Co-Principal Investigator. Award# 2349758. Amount: \$142,960. Jan. 15, 2024, thru Feb. 28, 2025.
- U.S. Science Support Program for Scientific Ocean Drilling, Novel Project: "A Short Open Educational Resource (OER) on Scientific Ocean Drilling for Introductory-Level Oceanography Courses, Written By and For Educators." Lead Principal Investigator. 2024. Amount: \$18,807. March 1, 2024, thru December 31, 2024.

Proposal in Review

- National Science Foundation: "Collaborative Research: Microbial and viral communities and interactions across a gradient of age and substrates in deeply buried sediment of the South Atlantic Transect." Principal Investigator. OCE – Biological Oceanography. 2024-2027. Amount: \$59,848.

Past Funding from External Research Grants

- National Science Foundation: "Collaborative Research: Student Produced Audio Narratives (SPAN)." Principal Investigator. DUE-IUSE. 2017-2022. Award #1708646. Amount: \$66,860.
- National Science Foundation: "Targeted Math Science Partnership: Middle Grades Earth and Space Science Education." Co-Principal Investigator. MSP Targeted Awards & Geoscience Education. 2010-2017. Award #096792. Amount: \$7,611,019.
- National Science Foundation: "Developing Undergraduate Research at Community Colleges: Tapping the Potential of All Students." Senior Personnel. NSF-DUE, CCLI-Type 2 (Expansion), Advanced Tech Education Programming, S-STEM. 2009-2014. Award #0920083. Amount: \$359,590.
- National Science Foundation: "UNH GEO-Teach: Transforming Earth System Science Education." Funded subcontractor to co-lead summer workshops and mentor graduate students in ESS education. NSF GEO-TEACH. 2006-2012. Award #0631377. Amount: \$3,251,664.
- National Science Foundation: "Faculty Development Workshops to Support Engagement in Undergraduate Research." Co-Principal Investigator. NSF CCLI-Phase I (Exploratory). 2008-2014. Award #0841267. Amount: \$49,000.
- National Science Foundation: "Collaborative Proposal: Building and Maintaining a Pipeline for Diversity: A Track2 Proposal." Co-Principal Investigator. NSF GEO – Opportunity for Enhancing Diversity & Education and Human Resources. 2005-2012. Award #0503521. Amount: \$900,872.
- National Science Foundation: "The Role of Two-Year Colleges in Education and Broadening Participation in the Geosciences: A Planning Workshop." Co-Principal Investigator. NSF GEO – Opportunity for Enhancing Diversity. 2009-2011. Award #0939671. Amount: \$47,290.

- National Science Foundation: “A Workshop to Design a Digital Research/Education Forum and “Pathway” for the Geosciences.” Senior Personnel. NSF-DUE, National SMETE Digital Library. 2009-2011. Award #0842177. Amount: \$146,995.
- National Collegiate Honors Council Portz Fund: “Establishing a Base Collection of Library Resources on Professional Research Skills.” Principal Investigator. 2008. Amount: \$200
- National Science Foundation: “Building a Pipeline for Diversity.” Co-Principal Investigator. NSF GEO – Catalyzing New International Collaborations, Geoinformatics, Environmental Social & Behavior Science, Opportunities for Enhancing Diversity, Engineering Education. Two years (2003-2005). Amount: \$92,726
- Environmental Protection Agency: “SPHERES! (Science Programming HERE, Scouts!) at Penn State Delaware County.” Principal Investigator. One year (2005-2006). Amount: \$9,535
- Society of Women Environmental Professionals: “Concern and Care for the Earth: An Essay Writing Contest for Girls.” Principal Investigator. One year (2006). Amount: \$1,000
- Scholars in Service to PA, AmeriCorps Education Award program, awarded three AmeriCorps positions for Penn State Delaware County. PI on proposal. Multiple years (2006-2007, 2007-2008, 2008-2009, 2009-2010). Amounts: \$3,750, \$6,250, \$11,750, \$8,250

Grant/Project Awards from Penn State University

- Penn State University Sustainable Communities Collaborative (SCC) PepsiCo Challenge Mini-Grant, Penn State Sustainability Institute. Co-Principal Investigator. 2017-2021. Amount: \$15,000.
- Education Technology Services/Teaching & Learning with Technology/ITS
 - Media Commons Immersive Tours Pilot, 2023
 - iBooks for Education and Outreach of Earth Science, 2012, Amount: \$5,800
 - Faculty Enhancement Grant, 2007, \$1,500
- Schreyer Honors College Course Development/Enhancement Award (2008-2009, \$1,500)
- Global Funds grant, University College (Spring 2008, \$1,600)
 - Documenting the First Dinosaur Finds and Sculptures, London, UK
- Laboratory of Public Scholarship and Democracy
 - Constitution Day grant, 2008, Amount: \$1,000
 - Public Scholarship Course Enhancement Grant (2006, \$1,500; 2007, \$1,500)
- Schreyer Institute for Teaching Excellence
 - Innovation Incentive Grant - Integration of Just-in-Time Teaching (JiTT), 2009-2010, Amount: \$510; 2004-2005, Amount: \$2,175
 - Innovation Incentive Grant - Bringing the QUEST for geographic and Earth science literacy from an independent study to the general education classroom, 2009-2010, Amount: \$510
 - Multicultural Teaching Academy participant and grant recipient, 2006, Amount: \$2,000
- College of Earth and Mineral Sciences - CRISP-G: Collaborative Research and Information Science Projects with Geosciences, 2001, Amount: \$8,000
- Teaching Development Grant, Penn State University (Commonwealth College - 2003, 2004, 2005; Brandywine –2007, 2008)
 - Mapping and Multimedia Resources to Enhance EARTH/GEOSC courses, 2008, Amount: \$350

- Recognizing the Philadelphia Significance to Dinosaur History Through Google Earth with Modules for EARTH 150 and GEOSC 021, 2007, Amount: \$707
- Creating Audio Files as an Instructional Medium in EARTH/GEOSC Courses for a Mobile Student Population, 2005, Amount: \$1,100
- Creating a Glossary of Dinosaur Science Terms for a Palm Pilot Handheld Computer, 2004, Amount: \$1,224
- Integrating Data Collection Technology with Geoscience Laboratory Research Exercises, 2003, Amount: \$1,477
- Campus Collaborative Teaching/Learning Project (PSU Brandywine) (2001, 2002)

Publications

Guertin, L. (2024). Taking the Temperature. *Consilience* (Colour Issue). Available at: <https://www.consilience-journal.com/conciliarte-issue-13-x/taking-the-temperature> (**Consilience is a peer-reviewed science/poetry/art journal. This article features one of my science quilts from my two-month ocean expedition and includes text/image*)

Guertin, L., and the South Atlantic Transect IODP Expedition 390 & 393 Scientists. (2022). Sharing More than Science: Ship-to-Shore Broadcasts from *JOIDES Resolution*. *In the Trenches*, 12(4): 1-5.

Guertin, L., Johnson, B., van der Hoeven Kraft, K. (2022). The role two-year colleges play in Unlearning Racism in the Geosciences (URGE). *New Directions for Community College special issue, Catalyzing Change: STEM Faculty as Change Agents*. Vol. 2022, Issue 199, 189-200. <http://dx.doi.org/10.1002/cc.20533>

Rosas Alquicira, E.F., Guertin, L., Tvelia, S., Berquist, P.J., Cole, M.W. (2022). Undergraduate research at community colleges: A pathway to achieve student, faculty, and institutional success. *New Directions for Community College special issue, Catalyzing Change: STEM Faculty as Change Agents*. Vol. 2022, Issue 199, 63-75. <http://dx.doi.org/10.1002/cc.20524>

Guertin, L., Theveny, K. (2022). Sustainability-themed programming around nature-themed literacy: Great Nature Reads and multilingual storytime. *Journal of Sustainability Education*. http://www.susted.com/wordpress/content/sustainability-themed-programming-around-nature-themed-literacy-great-nature-reads-and-multilingual-storytime_2022_06/

Kraal, E., Sirrakos, G., Guertin, L., Epstein, A., Simmens, G. (2022). Impact of Student Produced Audio Narrative (SPAN) assignments on students' perceptions and attitudes toward science in introductory geoscience courses. *Journal of Geoscience Education*, 70(2): 208-222. Undergraduate student co-author. <https://doi.org/10.1080/10899995.2021.1969863>

Guertin, L., Jansen, A., Berkey, J. (2021). Developing multiple literacies and foundational research skills in students through audio narratives on global warming solutions. *Scholarship and Practice of Undergraduate Research (SPUR)*, 5(1): 28. <https://doi.org/10.18833/spur/5/1/5>

Guertin, L. (2021). Sustainability stories developed by university students for younger classrooms. Accelerating Education for the SDGs in Universities [Sustainable Development Solutions Network: A

Global Initiative for the United Nations]. Available at:
<https://blogs.upm.es/education4sdg/2021/08/11/sustainability-stories-developed-by-university-students-for-younger-classrooms/>

Guertin, L., Nguyen, A. (2021). A mini-podcast series highlighting global-warming solutions in Pennsylvania. *Pennsylvania Geology*, 51(1): 13-15. Undergraduate student co-author.

Guertin, L. (2021). Christmas trees for coastal optimism. *Consilience* (Geoscience Special Issue). Available at: <https://www.consilience-journal.com/si/geoscience> (**Consilience is a peer-reviewed science/poetry/art journal. This article features one of my science quilts and includes text, images, and a video I created*)

Guertin, L., Theveny, K., Barber, D. (2021). Virtual community building via nature-themed podcast discussions. *Bulletin of the Ecological Society of America*, 102(1): e01798. 7 pages.
<https://doi.org/10.1002/bes2.1798> Undergraduate student co-author.

Guertin, L., Briseño, I. (2020). The Power of New Online Opportunities to Connect to the Ocean: The Journey of a Research Student and Mentor. *Current: The Journal of Marine Education*, 34(3): 18-20.
<http://doi.org/10.5334/cjme.60> Undergraduate student co-author.

Guertin, L., Theveny, K., Esparragoza, I. (2020). How An Arboretum Outreach Activity Changed Students' Attitudes Towards Sustainable Development. *Journal of Sustainability Education*, 24: 13 pages. Available at: http://www.susted.com/wordpress/content/how-an-arboretum-outreach-activity-changed-students-attitudes-towards-sustainable-development_2020_12/

Nguyen, A., Guertin, L. (2020). An Audio Journey Through Solutions to Global Warming in Pennsylvania. *Journal of Sustainability Education*, 24: 4 pages. Available at:
http://www.susted.com/wordpress/content/an-audio-journey-through-solutions-to-global-warming-in-pennsylvania_2020_12/ Undergraduate student lead author.

Guertin, L. (2020). Audio and video clips provide connections between authentic voices, social justice, and global water challenges. *Science Education and Civic Engagement: An International Journal*, 12(2): 34-35.

Fortner, S., Manduca, C., Guertin, L., Szymanski, D., Villalobos, J. (2019). Teaching for Earth resilience: A strategy for increased diversity and equity. *GSA Today*, 29: 2 pages.
<https://doi.org/10.1130/GSATG388GW.1>

Schaefer, G., Guertin, L. (2018). Air and surface temperature change during the August 2017 partial solar eclipse in Delaware County. *Proceedings of the Delaware County Institute of Science*, 14(1): 12-15. Undergraduate student lead author.

Guertin, L. (2016). Starting students on the pathway to ocean literacy with a first day class activity. *Current: The Journal of Marine Education*, 30(2): 20-24.

Guertin, L. (2016). Showcasing the lives of women scientists through the #365scienceselfies social media project. *Earthzine* (IEEE Oceanic Engineering Society). Available at: <http://earthzine.org/2016/10/05/showcasing-the-lives-of-women-scientists-through-the-365scienceselfies-social-media-project/>

Bowen, K., Guertin, L. (2016). Using the citizen science Picture Post Project for schoolyard environmental monitoring. *The Earth Scientist*, 32(Special Edition): 10-13. Undergraduate student lead author.

Guertin, L., Clements, N. (2016). Improving student ocean science literacy through collaboration with a librarian. *In the Trenches*, 6(2): 5-6.

Elgin, S., Bangera, G., Decatur, S., Dolan, E., Guertin, L., Newstetter, W., San Juan, E., Smith, M., Weaver, G., Wessler, S., Brenner, K., Labov, J. (2016). Insights from a convocation: integrating discovery-based research into the undergraduate curriculum. *CBE/Life Sciences Education*, 15(2). 7 pages.

Guertin, L. (2016). Generating SEG Wiki articles to improve student geoscience content and literacy. *The Leading Edge*, 35(3): 274-276.

Clements, N., Guertin, L. (2016). Science literacy meets information literacy: Using Zotero as a teaching tool. *College & Research Libraries News*, 77(1): 14-16.

Guertin, L., Clements, N. (2015). Ocean literacy: can students learn the Essential Principles? *Current: The Journal of Marine Education*, 29(3): 35-38.

Guertin, L. (2015). Engaging students before, during, and after visits to informal science education centers. *In the Trenches*, 5(1): 10-11.

Guertin, L. (2015). IN HER OWN WORDS: Sharing my experience as a Woman in STEM: Pass it on. *Women in Higher Education*, 24(2): 5, 19.

Guertin, L. (2014). Why students should listen. *Journal of College Science Teaching*, 44(2): 8-9.

Guertin, L. (2014). PAESTA – A professional organization for Pennsylvania’s K-12 Earth science teachers. *Pennsylvania Geology*, 44(2): 11-12.

Pollock, M., Guertin, L. (2013). Online guide encourages undergraduate research using social media. *CUR Quarterly*, 34(2): 14. (*CUR = Council on Undergraduate Research*)

Guertin, L. (2013). Community-based research with podcasting in introductory geoscience courses. *CURQ On The Web*, 34(2): 13. (*CUR = Council on Undergraduate Research*)

Dufoe, A., Guertin, L. (2013). Using iBooks Author to create Earth science classroom content for the iPad. *The Earth Scientist*, 29(2): 29-31. Undergraduate student lead author.

Lewis-King, T., Guertin, L. (2013). The successes and challenges of establishing PAESTA, a new professional community for teachers. *The Earth Scientist*, 29(2): 41-45. Teacher lead author.

Licon, P., McDonald, S., Furman, T., Guertin, L. (2013). Student conceptions of the cause and locations of earthquakes. *The Earth Scientist*, 29(2): 50-54. Graduate student lead author.

Pickard, M., Guertin, L., Furman, T. (2013). Student and teacher conceptions of the Earth's interior structure. *The Earth Scientist*, 29(2): 55-58. Graduate student lead author.

Guertin, L., Furman, T. (2013). Mentoring middle school and high school Earth science teachers to publish. *In the Trenches*, 3(1): 4-5.

Guertin, L.A., Stubbs, C., Millet, C., Lee, T.K., Bodek, M.J. (2012). Enhancing geographic and digital literacy with a student-generated course portfolio in Google Earth. *Journal of College Science Teaching*, 42(2): 32-37.

Bembenic, M., Cratsley, C., Hartwell, B., Guertin, L., Furman, T. (2012). Adaptable inquiry-based activities about national patterns of coal and energy use. *Science Scope*, 35(9): 49-55. Graduate student lead authors.

Cole, H., Furman, T. Guertin, L., Endress Cratsley, C. (2011). Engaging students in learning ecosystem-based biogeochemical cycles. *The Earth Scientist*, 27(2): 13-16. Teacher lead author, graduate student co-author.

Endress Crastley, C., Guertin, L., Furman, T. (2011). Promoting geographic literacy of African Environments through map exercises. *The Earth Scientist*, 27(2): 27-32. Graduate student lead author.

Guertin, L.A. (2011). Classroom integration of Earth and Space Science news stories through audio. *The Earth Scientist*, 27(2): 41-45.

Furman, T., Guertin, L., Pickard, M. (2011). Now what? Experienced teachers reflect on their unplanned transitions to teach Earth Science. *The Earth Scientist*, 27(2): 9-12. Graduate student co-author.

Neville, S., Guertin, L. (2011). Ten examples of utilizing existing gigapixel panoramas in the Earth and Space Science classroom. *The Earth Scientist*, 27(2): 46-49. Undergraduate student lead author.

Neville, S., Guertin, L. (2011). Three guided student explorations of Sky in Google Earth. *The Earth Scientist*, 27(2): 33-36. Undergraduate student lead author.

Tait, K., Pickard, M., Guertin, L., Furman, T. (2011). Dispelling middle school student misconceptions of Grand Canyon formation through hands-on activities. *The Earth Scientist*, 27(2): 22-26. Teacher lead author, graduate student co-author.

Guertin, L.A. (2011). Pre-recorded online audio review sessions. *College Teaching*, 59(1): 45.

Guertin, L.A., Neville, S.E. (2011). Utilizing Google Earth to teach students about global oil spill disasters. *Science Activities: Classroom Projects and Curriculum Ideas*, 48(1): 1-8. Undergraduate student co-author.

Scholtz, L.A., Guertin, L.A. (2010). Using tombstone records from Centralia, PA, to evaluate the effects of mining activities on male survivorship. *The Pennsylvania Geographer*, 48(1): 3-15. Undergraduate student lead author.

Guertin, L.A. (2010). Creating and using podcasts across the disciplines. *Currents in Teaching and Learning*, 2(2): 4-12.

DiLauro, A., Meyers, T., Guertin, L.A. (2010). The value of extending the honors contract beyond one semester: a case study with Smithsonian Dinosaurs. *Honors in Practice*, 6: 109-115. Undergraduate student lead authors.

Charles, L., Klein, C., Narkiewicz, M., Guertin, L., Furman, T. (2009). Improving Earth Science instruction with an integrated Earth systems science matrix. *The Earth Scientist*, 25(4): 19-22. Teacher lead authors, graduate student co-author.

Dorsch, A., Furman, T., Guertin, L. (2009). Five activities for differentiated instruction on human-induced climate change. *The Earth Scientist*, 25(4): 7-9. Teacher lead author.

Drozynski, D., Ellis, J., Furman, T., Guertin, L. (2009). Students' inquiry in and about the Earth Science classroom. *The Earth Scientist*, 25(4): 10-13. Teacher lead author, undergraduate student co-author.

Hartwell, B., Schoch, K., Guertin, L., Furman, T. (2009). Understanding the rock cycle through a Choose Your Own Adventure® classroom activity. *The Earth Scientist*, 25(4): 23-26. Graduate student lead author, teacher co-author.

Hoffman, J., Vishio, N., Bembenic, M., Guertin, L., Furman, T. (2009). Designing sustainable communities: an inquiry-based approach to teaching Earth systems science. *The Earth Scientist*, 25(4): 35-39. Teacher lead authors, graduate student co-author.

Nelson, W.R., Furman, T., Guertin, L. (2009). The rewards and challenges of integrating graduate student teaching fellows into the middle and high school classroom. *The Earth Scientist*, 25(4): 27-30. Graduate student lead author.

Neville, S.E., Guertin, L.A. (2009). Integrating Google Earth with the QUEST for Earth Science Literacy. *The Earth Scientist*, 25(4): 31-34. Undergraduate student lead author.

Woodruff, J.B., Acuna, E.B., Silano, R.L., Guertin, L.A. (2009). Enhanced podcast of Pennsylvania tree biodiversity in Ridley Creek State Park. *Journal of the Pennsylvania Academy of Science*, 83(2/3): 90-93. Undergraduate student lead authors.

Guertin, L.A., Young, C.L. (2009). Using Flickr to connect a multi-campus honors community. *Journal of the National Collegiate Honors Council*, 10(2): 57-60.

Guertin, L.A. (2009). Dinosaur science for hospitalized children. *Academic Exchange Quarterly*, 13(3): 133-137.

Guertin, L.A., Zappe, S.E., Kim, H. (2007). Just-in-Time Teaching (JiTT) exercises to engage students in an introductory-level dinosaur course. *Journal of Science Education and Technology*, 16: 507-514. Graduate student co-author.

Guertin, L.A., Sealy, A. (2007). The challenges of establishing an environmental science essay contest for girls. *Journal of the Pennsylvania Academy of Science*, 81(1): 35-38. Undergraduate student co-author.

Guertin, L.A., Bodek, M.J., Zappe, S.E., Kim, H. (2007). Questioning the student use of and desire for lecture podcasts. *Journal of Online Learning and Teaching*, 3(2): 133-141. <http://jolt.merlot.org/vol3no2/guertin.pdf> Graduate student co-author.

Guertin, L.A. (2006). Integrating handheld technology with field investigations in introductory-level geoscience courses. *Journal of Geoscience Education*, 54(2): 143-146.

Guertin, L.A. (2006). An examination of student learning geoscience content through printed notes versus virtual lectures. *Journal of College Science Teaching*, 35(4): 36-41.

Guertin, L.A., Downey, E.A. (2006). Bringing Absolutely Incredible Kid Day! to the classroom and campus community. *The Journal for Civic Commitment, Issue 6*, URL: <http://www.mesacc.edu/other/engagement/Journal/Issue6/Guertin.shtml>

Guertin, L.A. (2005). Using virtual lectures to educate students on plagiarism. *First Monday*, 10(9): URL: <http://www.firstmonday.org/htbin/cgiwrap/bin/ojs/index.php/fm/article/view/1277/1197>

Guertin, L.A. (2005). Student reactions to required service learning. *The National Teaching and Learning Forum*, 14(5): 1-3.

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Book Chapters, Reviewed Book Contributions, Field Guides, and Reports

Amadori, C., Borrell, C., Christeson, G., Estes, E., Guertin, L., Hertzberg, J., Kaplan, M., Koorapati, R.K., Lam, A., Lowery, C.M., MacIntyre, A., Reece, J., Robustelli Test, C., Routledge, C., Standing, P., Sylvan, J., Thompson, M., Villa, A., Wang, Y., Wee, S.Y., Williams, T., Yeon, J., and IODP Expedition 390/393 Scientists. (accepted) Data Report: X-Ray Fluorescence Scanning of Sediment Cores, Site U1560, South Atlantic Transect.

Lam, A., Amadori, C., Borrell, C., Christeson, G., Estes, E., Guertin, L., Hertzberg, J., Kaplan, M., Koorapati, R.K., Lowery, C.M., MacIntyre, A., Reece, J., Robustelli Test, C., Routledge, C., Standing, P., Sylvan, J., Thompson, M., Villa, A., Wang, Y., Wee, S.Y., Williams, T., Yeon, J., and IODP Expedition 390/393 Scientists. (accepted) Data Report: X-Ray Fluorescence Scanning of Sediment Cores, Site U1583, South Atlantic Transect.

Lowery, C.M., Amadori, C., Borrell, C., Christeson, G., Estes, E., Guertin, L., Hertzberg, J., Kaplan, M.R., Koorapati, R.K., Lam, A., MacIntyre, A., Reece, J., Robustelli Test, C., Routledge, C., Standing, P., Sylvan, J., Thompson, M., Villa, A., Wang, Y., Wee, S.Y., Williams, T., Yeon, J., and IODP

Expedition 390/393 Scientists. (accepted) Data Report: X-Ray Fluorescence Scanning of Sediment Cores, Site U1557, South Atlantic Transect.

Robustelli Test, C., Amadori, C., Borrell, C., Christeson, G., Estes, E., Guertin, L., Hertzberg, J., Kaplan, M.R., Koorapati, R.K., Lam, A., Lowery, C.M., MacIntyre, A., Reece, J., Routledge, C., Standring, P., Sylvan, J., Thompson, M., Villa, A., Wang, Y., Wee, S.Y., Williams, T., Yeon, J., and IODP Expedition 390/393 Scientists. (accepted) Data Report: X-Ray Fluorescence Scanning of Sediment Cores, Site U1559, South Atlantic Transect.

Routledge, C., Amadori, C., Borrell, C., Christeson, G., Estes, E., Guertin, L., Hertzberg, J., Kaplan, M., Koorapati, R.K., Lam, A., Lowery, C.M., MacIntyre, A., Reece, J., Robustelli Test, C., Standring, P., Sylvan, J., Thompson, M., Villa, A., Wang, Y., Wee, S.Y., Williams, T., Yeon, J., and IODP Expedition 390/393 Scientists. (submitted) Data Report: X-Ray Fluorescence Scanning of Sediment Cores, Site U1561, South Atlantic Transect.

Villa, A., Amadori, C., Borrell, C., Christeson, G., Estes, E., Guertin, L., Hertzberg, J., Kaplan, M., Koorapati, R.K., Lam, A., Lowery, C.M., MacIntyre, A., Reece, J., Robustelli Test, C., Routledge, C., Standring, P., Sylvan, J., Thompson, M., Wang, Y., Wee, S.Y., Williams, T., Yeon, J., and IODP Expedition 390/393 Scientists. (accepted) Data Report: X-Ray Fluorescence Scanning of Sediment Cores, Site U1558, South Atlantic Transect.

Wang, Y., Amadori, C., Borrell, C., Christeson, G., Estes, E., Guertin, L., Hertzberg, J., Kaplan, M., Koorapati, R.K., Lam, A., Lowery, C.M., MacIntyre, A., Reece, J., Robustelli Test, C., Routledge, C., Standring, P., Sylvan, J., Thompson, M., Villa, A., Wee, S.Y., Williams, T., Yeon, J., and IODP Expedition 390/393 Scientists. (accepted) Data Report: X-Ray Fluorescence Scanning of Sediment Cores, Site U1556, South Atlantic Transect.

Coggon, R.M., Teagle, D.A.H., Sylvan, J.B., Reece, J., Estes, E.R., Williams, T.J., Christeson, G.L., and the Expedition 390/393 Scientists. (2024). South Atlantic Transect. Proceedings of the International Ocean Discovery Program, 390/393: College Station, TX (International Ocean Discovery Program). <https://doi.org/10.14379/iodp.proc.390393.2024> (*Note – I was a member of the Expedition 390 scientific party)

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Guertin, L.A. (2018). *Social media hashtags and campaigns showcasing female geoscientist selfies and stories*. In B. Johnson (Ed.), *Women and Geology: Who Are We, Where Have We Come From, and Where Are We Going?: Geological Society of America Memoir 214*, p. 87–94, [https://doi.org/10.1130/2018.1214\(09\)](https://doi.org/10.1130/2018.1214(09)).

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McNeill, D.F., Cunningham, K.J., Guertin, L.A., Hickey, D. (2000). *Geology of Everglades National Park: Fieldtrip Guidebook*. Miami Geological Society, 55 pages.

McNeill, D.F., Cunningham, K.J., Guertin, L.A., Melim, L.A., Warzeski, E.R., Anselmetti, F.S., Ginsburg, R.N., Eberli, G.P., Swart, P.K. (1996). *Data Report: Tertiary-Quaternary cores from the Florida Keys & Everglades*. Miami Geological Society, 98 pages.

Academic Blogging with the American Geophysical Union – GeoEd Trek

URL: <https://blogs.agu.org/geoedtrek/>

AGU invited me to join their online community as their solo geoscience education blogger. From May 2014 through December 2023, **GeoEd Trek** was where I blogged about pedagogy, educational technology, and science communication. I authored >400 posts and received 28,000-40,000+ page views each year. The following are posts within the top 25 number of pageviews:

Posts on pedagogical approaches and classroom practices

- Pronouns in the classroom... to ask, or not to ask, and how to ask
- Graphic syllabus and outcomes map – new additions to your fall syllabus?
- Student collaborative note taking during lecture – encourage or discourage?
- Are you looking for a CURE? (Course-based Undergraduate Research Experience)

Posts on diversity, equity, and inclusion

- What it means to students when you can pronounce their names – and when you can't
- Online is a good time to start calling the “office hour” by another name
- To adopt or not adopt a textbook

- Check for gender bias in letters of recommendation
- Posts on faculty development, mentoring, and issues in higher education*
- Teaching with technology philosophy statement
 - What does it mean to be a “Fellow” of a professional organization?
 - My year as Faculty Senate Chair: reflection and suggestions
 - Advocacy and activism – what they mean, why they matter

Additional academic blog posts

- Ormand, C., L. Guertin, K. Helgers, M. Jones, K. Kraft. “SAGE Musings: Teaching Activities Incorporating Diversity, Equity, and Inclusion” (November 16, 2021)
https://serc.carleton.edu/sage2yc/musings/DEI_activities.html
- Ormand, C., K. Kraft, L. Guertin, K. Helgers. “SAGE Musings: Resources for Incorporating Diversity, Equity, and Inclusion in Geoscience Courses” (November 16, 2021)
https://serc.carleton.edu/sage2yc/musings/DEI_resources.html

Pedagogical Portals, Encyclopedia/Wiki Entries & Newsletter Articles

Select contributions to the National Association of Geoscience Teachers (NAGT) Teach the Earth Portal – a resource that supports the teaching and learning of Earth sciences (reviewed). All of the following have been selected for the On the Cutting Edge Exemplary Teaching Collection (fewer than 20% of the teaching activities are awarded this designation).

- Student perspectives on climate discussions from the UN Conference of Parties (COP) via audio narrative (2022), <https://serc.carleton.edu/teachearth/activities/250951.html>
- FutureEarthCast: Voicemails from 50 years in the future (2021), <https://serc.carleton.edu/243300>
- Student-Generated Sustainability Short Stories Anchored in Science and Information Literacies and the SDGs (co-authored with A. Jansen and J. Berkey) (2021), <https://serc.carleton.edu/242875>
- Water Optimism – focusing on solutions for the hydrosphere in a take-home final exam (2021), <https://serc.carleton.edu/243086>
- A Toast to a Scientist – Celebrating Identity and Accomplishments (2021), <https://serc.carleton.edu/242172>
- Rally Speeches for Coastal Optimism (co-authored with A. Jansen and J. Berkey) (2020), <https://serc.carleton.edu/240117>
- Student-Generated Earth Science Podcasts for a Community Partner (2019), <https://serc.carleton.edu/130575>
- Examining Short-Term Tree Growth and Environmental Variables near Philadelphia, Pennsylvania (2014), <https://serc.carleton.edu/88732>

New Wikipedia and Society of Exploration Geophysicists (SEG) Wiki pages

- Guertin, L. (2021, June 8). Drew Harvell (new Wikipedia page for female marine ecologist, completed as part of the 500 Women Scientists Wiki Reunion). In *Wikipedia*. https://en.wikipedia.org/wiki/Drew_Harvell
- Guertin, L. (2020, August 16). Lydia Jennings (new Wikipedia page for Native American female soil scientist, completed as part of the ACS Women Chemist Committee Edit-a-Thon). In *Wikipedia*. https://en.wikipedia.org/wiki/Lydia_Jennings

- Guertin, L. (2020, June 18). Karen Von Damm (new Wikipedia page for female oceanographer, completed as part of the 500 Women Scientists Wiki Scholar program). In *Wikipedia*. https://en.wikipedia.org/wiki/Karen_Von_Damm
- Guertin, L. (2020, May 30). Deborah Kelley (new Wikipedia page for female oceanographer, completed as part of the 500 Women Scientists Wiki Scholar program). In *Wikipedia*. https://en.wikipedia.org/wiki/Deborah_Kelley
- Guertin, L. (2020, May 19). Rana Fine (new Wikipedia page for female oceanographer, completed as part of the 500 Women Scientists Wiki Scholar program). In *Wikipedia*. https://en.wikipedia.org/wiki/Rana_Fine
- Guertin, L. (2015). Earth system science. In *Society of Exploration Geophysicists (SEG) Wiki*. Society of Exploration Geophysicists. http://wiki.seg.org/wiki/Earth_system_science
- Guertin, L. (2015). Layers of the Earth. In *Society of Exploration Geophysicists (SEG) Wiki*. Society of Exploration Geophysicists. http://wiki.seg.org/wiki/Layers_of_the_Earth
- Guertin, L. (2015). Water cycle. In *Society of Exploration Geophysicists (SEG) Wiki*. Society of Exploration Geophysicists. http://wiki.seg.org/wiki/Water_cycle

Newsletter articles

- Guertin, L., (2023, October). A call for participation: Stories of Scientific Ocean Drilling. *Bulletin of the Eastern Section of the National Association of Geoscience Teachers*, 73(3): 1.
- Guertin, L., (2022, June). Dr. G at Sea – Onboard Outreach Officer on *JOIDES Resolution*. *GSA Marine and Coastal Geoscience Division Newsletter*, 2(2): 9.
- Guertin, L. (2022, Winter). Stitch Your Science 2022: a call for climate-themed submissions. *Bulletin of the Eastern Section of the National Association of Geoscience Teachers*, 72(1): 1.
- Guertin, L. (2021, Summer/Fall). Guidelines to be actively anti-racist in the geosciences – guidelines for classrooms and campuses. *Bulletin of the Eastern Section of the National Association of Geoscience Teachers*, 71(3): 6.
- Guertin, L. (2021, July). Pollen records, pollinators, and climate change. Tyler Arboretum Painter Press. Tyler Arboretum, Media, PA.
- Guertin, L. (2021, Spring). Quilt Your Science 2021: a call for submissions. *Bulletin of the Eastern Section of the National Association of Geoscience Teachers*, 71(2): 5.
- Guertin, L., Trout, B. (2021, April). Spring cues and a changing climate. Tyler Arboretum Painter Press. Tyler Arboretum, Media, PA.
- Guertin, L. (2020). United Nations celebrations kicking off in 2021. *Bulletin of the Eastern Section of the National Association of Geoscience Teachers*, 70(4): 7.
- Guertin, L., Briseño, I. (2020). A resource for exploring the power of connections for the UN Ocean Decade with ArcGIS StoryMaps. *Bulletin of the Eastern Section of the National Association of Geoscience Teachers*, 70(4): 8. Undergraduate student co-author.
- Guertin, L., Barber, D. (2020, February). Listen to This: Science Communications Through Podcasting. *The Connection: NCSE Essay for the National Council for Science and the Environment*. <https://www.ncseglobal.org/ncse-essays/listen-science-communications-through-podcasting> Undergraduate student co-author.
- Guertin, L., Smith, J. (2016, March). AGU’s Virtual Poster Showcase – a faculty/student experience. *Foundations: Newsletter of the Geo2YC Division of the National Association of Geoscience Teachers*, 5(1): 2-3. Undergraduate student co-author.
- Guertin, L. (2016). Ice and Snow: Did glaciers shape Tyler’s landscape? Tyler Topics (newsletter of Tyler Arboretum). Tyler Arboretum, Media, PA.

- Guertin, L. (2016). Tyler's landscape: Geology of Tyler. Tyler Topics (newsletter of Tyler Arboretum). Tyler Arboretum, Media, PA.

Additional contributions

- Guertin, L. (2020, June). International Year of Planet Health, 2020 [Perspective]. Proceedings of the Delaware County Institute of Science, 25(1): 2. [editorial review only]
- Guertin, L. (2006). Allowing students' "hearts" to drive community service. Vermont Community Works, Higher Ed Curriculum Exemplar [peer reviewed]. Originally published at: http://www.communityworksinstitute.org/exemplars/exemphghed/exemp_hied_text/pennhug.html
- Original non-fiction narratives published with Penn State Short Editions (University Libraries)
 - The March of the Key Biscayne Crabs (2022)
 - Ghost Forests of Louisiana (2021)
 - Arctic Report Card – Pass or Fail? (2021)
 - Not Enough People Talk About and Understand Climate Change (2020)
 - Hurricane Andrew and Andrew Jr. (2020)
 - The Limpkin Moves in on Louisiana's Invasive Apple Snail (2020)

Undergraduate Research Mentorship & Internship Supervision

In my time at Penn State Brandywine (2001 thru Fall 2023), I have supervised 59 unique undergraduate students on 53 unique independent/group projects outside of course-based projects, with some students completing more than one project with me. I have mentored twenty-seven undergraduate students as lead/co-authors on publications (peer-reviewed journals to reviewed magazine articles for independent and course-based projects). Over 50 conference presentations have students as presenters and/or co-authors.

From May 2005 to July 2014, I served as the honors thesis advisor for 8 Cooper and Schreyer Honors College scholars at Penn State Brandywine/Penn State University Park in the disciplines of environmental inquiry, STS (science, technology & society), information science & technology, and civic engagement. Selected thesis titles include:

- *Two Hundred Years of Discovery: Using Google Earth to Raise Awareness of Scientific Research at the Academy of Natural Sciences of Drexel University*
- *Message in a Bottle: Creating an Oceanographic Google Earth Tour Using Spreadsheet Mapper*
- *Living Walls: Varieties, Benefits and Global Distribution*
- *Educating Young Women About Water Science and Geoscience Careers*

From January 2012 to May 2013, I supervised 7 students completing 8 internships under the Penn State Brandywine Laboratory for Civic Engagement (which I coordinated during this period). The internships focused on fair trade, communications, and the community.

Several of my undergraduate student researchers have been recognized with campus-to-national awards and recognitions based upon their work I mentored:

- *Council on Undergraduate Research's Posters on the Hill, Washington DC*: Isabella Briseño (selected to present, 2021), Sara Neville (selected to present, 2010), Abbey Dufoe (Award of Honorable Mention for high-quality research among the top 10% of all submissions to CUR Posters on the Hill, 2013)

- *GeoCUR Award for Excellence in Student Research*: Niles Williams (2023), Stephen Disipio (2019), Gabriel Schaefer (2018), Judy Smith (2016), Kimberley Bowen (2015), Jonathan Fridman (2014)
- *American Geophysical Union Outstanding Student Presentation Award*: Lillian Pitts (2000)
- *Pennsylvania Historical Association Outstanding Student Poster Award*: Eileen Fresta (2012)
- *Penn State's John Roe Student Sustainability Award*: Dallas Barber (2021), Anna Nguyen (2019)
- *Penn State University Undergraduate Research Ambassador*: Dallas Barber (2020-2021)
- *Penn State Drawdown Scholars Research Experience for Undergraduates (REU) Program – Best Poster Award*: Anna Nguyen (2019)
- *Penn State Brandywine Undergraduate Student Research Award*: Stamatina Mattie Mylonas (2016), Abbey Dufoe (2013), Sara Neville (2010), Lindley Jones (2009)

Four of my undergraduate student researchers have been selected to participate in Pennsylvania's Undergraduate Research at the Capitol event in Harrisburg, PA:

- Ballard, B., Fredricks, S., Guertin, L. *An evaluation measuring the patterns and effects of nonprofit messaging through Facebook*. The 8th URC-PA (Undergraduate Research at the Capitol - Pennsylvania), Harrisburg, PA, April 26, 2011. Student presenter Ballard.
- Dufoe, A., Guertin, L. *A web-based visitor experience to the Tyler Arboretum Tree Houses with Google Earth*. The 8th URC-PA (Undergraduate Research at the Capitol - Pennsylvania), Harrisburg, PA, April 26, 2011. Student presenter Dufoe.
- Meyers, T., DiLauro, A., Guertin, L. *Smithsonian "classic" dinosaur specimens*. Undergraduate Research at the Capitol – Pennsylvania, Harrisburg, PA, March 24, 2009. Student presenter Meyers.
- Robb, E., Liskowycz, M., Jones, L., Arena, R., Guertin, L., *Capturing the sun through advanced technology*. Undergraduate Research at the Capitol – Pennsylvania, Harrisburg, PA, March 24, 2009. Student presenter Jones.

I have participated in mentoring students through an international organization

- American Geophysical Union (AGU) Undergraduate Mentoring Program, December 2015-2017 (1 student 2015, 1 student 2016)

Graduate Student and Post-Doctoral Researcher Mentorship/Committees

Graduate student dissertation committee member

Lauren Haygood, Oklahoma State University (August 2022-present)

Mentor for graduate student awardee in the Schlanger Ocean Drilling Fellowship program

Celeste Pallone, Columbia University/Lamont-Doherty Earth Observatory (2023-2024)

Post-doctoral researcher mentoring program

Dr. Claire Routledge, University of Kiel (Germany), through the via:mento-international program (a two-year program for female scientists that wish to pursue an academic career outside of Germany) (November 2022 – July 2024)

I have completed additional one-on-one mentoring for graduate students, post-doctoral researchers, and early career researchers/faculty through these organizations:

- Society of Women in Marine Science (SWMS) Mentoring Program, 2018-2019 (1 graduate student)
- American Geophysical Union (AGU) Science Communication Mentoring Program, December 2015-2018 (3 graduate students)

- Geological Society of America GeoCareers Program, Resume/CV Mentor (October 2023)
- American Geophysical Union (AGU) Mentoring365 Live, December 2023 (3 individuals)

Professional Activities

Of note: Selected as part of the American Geophysical Union's Voices for Science Advocacy Program, to amplify the voice of science and build valuable dialogues and relationships with communities, journalists and stakeholders (2019)

Mentoring for students and faculty outside of Penn State University

- Institutes/Panels/Workshops
 - National Science Foundation (NSF) Geoscience Ideas Lab, Leesburg, Virginia (March 3-7, 2014)
 - Project Kaleidoscope (PKAL)'s Summer Leadership Institute for STEM faculty, Crestone, Colorado (July 17-22, 2012)
 - Workshop co-organizer/co-leader, "Career Options in Academia: Paths Through Science" (w/E. Klemetti), AGU Professional Development Event at American Geophysical Union Fall Meeting (December 13, 2019)
 - Invited panelist for "Geoscience Career Exploration," Student and Early Career Professional Workshop, Geological Society of America Section Meeting (March 2016, 2017); Invited panelist for National Meeting (October 2020)
 - Discussion leader, Women in Geology Career Pathways Mentor, Geological Society of America, Denver, Colorado, September 25, 2016
 - Invited panelist for session "Mid-Career Faculty: Issues, Challenges, and Opportunities," Geological Society of America Annual Meeting, October 6, 2008
- National Oceanic and Atmospheric Administration (NOAA) Teacher at Sea program, 2022 (1 mentored an educator sailing on the NOAA ship *Thomas Jefferson*)
- Scientist pen pal for middle school girls as part of the Letters to a Pre-Scientist program, sharing four personal letters per year focused on careers in oceanography (2015-2018)

Advisory board member for federally-funded grant programs

- NSF grant (#2013318), Promoting Geoscience Research, Education, Success, and Equity Through Mentoring (2020-2025)
- NSF grant (#1431795), Improving the recruitment and persistence of women in the Geosciences: Exploring deliberate mentoring approaches aimed at undergraduate students - PROGRESS (PRomoting Geoscience Research Education & Success) Program (2016-2018)
- Department of Education Title V Collaborative Grant, Research in Action (virtual lectures for undergraduate research training courses) for City University of New York/John Jay College (March 2015-September 2015, November 2015-December 2019)
- NSF grant (#1244881), Research-Informed Curricula: Creating and Evaluating a Cutting-Edge, Research-Based Physical Geology Textbook (2014-2016)
- NSF grant (#1122592), Supporting and Advancing Geoscience Education in Two-year Colleges through Workshops and Web Resources (SAGE 2YC) (2011-2016)

Editing and reviewing

- Council on Undergraduate Research (CUR) Editorial Board member for peer-reviewed journal CUR Quarterly (2014-2018)
- Guest co-editor for three special issues of *The Earth Scientist*
 - 12 papers (Summer 2013); 9 papers (Summer 2011); 8 papers (Winter 2009)

- Reviewer of proposals submitted to federal programs
 - Single proposals submitted to NSF CAREER (2022); NSF ATE (2020, 2021); NSF EAR – GEO/EAR Earth Sciences (2015); NSF DUE Geo (2014)
 - Two proposals submitted to NASA’s Global Climate Change Education (GCCE): Research Experiences, Teaching & Learning (2009)
 - Participant on NSF Review Panels: ATE (2020), REU (2017), IUSE (2014, 2015), CCLI-A&I (2003, 2004, 2005), CCLI-EMD (2002), STEMTP (2001), Washington D.C. and virtual
- Reviewer of United Nations Ocean Decade Vision 2023 White Paper Challenge 10 (2024)
- Reviewer of National Oceanic and Atmospheric Administration (NOAA) Teacher at Sea applications (December 2018, 2019, 2023)
- Proposal reviewer for the American Association for the Advancement of Science (AAAS) Annual Meeting (July 2020, July 2021, May 2023)
- Panel reviewer of proposals submitted to Scholarship America, Inc.’s 2018 Goldwater Review Committee (2018)
- Reviewer of individual manuscripts submitted to journals
 - *Journal of Sustainability Education* (2021), *Current: The Journal of Marine Education* (2020, 2023, 2024), *Marine and Freshwater Research* (2019), *Journal of Geoscience Education* (2000, 2004, 2005, 2016, 2019, 2020, 2022, 2023); *CUR Quarterly* (2013, 2014); *The Earth Scientist* (2013, 2014); *The International Journal of Historical Archaeology* (2011); *Journal of Women and Minorities in Science and Engineering* (2004, 2005)
- Reviewer of book chapters/proposals and miscellaneous
 - Reviewer of book proposal for MIT Press (October 2022)
 - Reviewer of book proposal for The University of Chicago Press (September 2022)
 - Reviewer of screenplay for Alfred P. Sloan Script Competition at Carnegie Mellon University, in which graduate students in screenwriting are teamed with a science or technology consultant to develop a scientifically accurate screenplay. (March 2022)
 - Content adviser/reviewer for WGBH Education/PBS LearningMedia “Bringing the Universe to America’s Classroom” (April-July 2017, March-September 2020)
<https://why.pbslearningmedia.org/universe/>
 - Reviewer of American Chemical Society Symposium Series Chapter (2017)
 - Reviewer of geoscience content in book *The Half-True Lies of Cricket Cohen* by Catherine Lloyd Burns (Macmillan Children’s Publishing Group, 2016)
 - Geoscience educational video script for Mosa Mack Science (September 2015)
 - Book proposal submitted to National Science Teachers Association Press (2014)
 - Five book chapters for *Geoscience Research and Education* (Springer, 2012)
 - Two book chapters for *Google Earth, Virtual Globes, and Virtual Visualizations: Modern Approaches to Geoscience Inquiry and Research* (Geological Society of America, 2011)
 - PBS-NOVA/NSF-funded movie *The Botany of Desire* (2011)
 - Nature/science movie for Knight-Williams assessment group (2011)
 - Member/reviewer for National Geographic Society Book Ideas Panel (2011-2016)
 - Book chapter for *Field Geology Education--Historical Perspectives and Modern Approaches* (Geological Society of America, 2008)
 - Chernicoff/Fox/Tanner’s *Physical and Historical Geology* textbook (Houghton Mifflin, 2000)
 - Plummer/McGeary/Carlson’s *Physical Geology* textbook (WCB/McGraw-Hill, 1998)

Judging/reviewing of student work

- American Geophysical Union Meeting poster sessions: Undergraduate Geoscience Research and Outreach (December 2013, December 2015); Bright STARS (middle/high school international student presentations, December 2020)
- IVSS 2021 – GLOBE International Virtual Science Symposium (judged hands-on science investigations from three international high school teams, Spring 2021)
- Youth Science Judge at: The Meredith School Science Fair [middle school] (Philadelphia, June 17, 2013); George Washington Carver Science Fair [middle school] (Philadelphia, February 26, 2008); Delaware County Science Fair [high school] (Pennsylvania, Spring 2002); CO/WY Regional National Ocean Science Bowl competition (Colorado, Spring 2001); Denver Metropolitan Regional Science Fair (Colorado, Spring 2001); Spotsylvania High School Science Fair (Virginia, Spring 2000)
- Scientist interaction with Signals of Spring, reviewed middle/high school student-expert analysis journal entries and provide feedback via internet. Students used NASA and other earth imagery to explain the migration of animals tracked by satellites (Spring 2002, 2003, 2004)

Workshop organization/leadership/facilitation, panelist (select examples)

- For the American Geophysical Union (AGU)

- Organizer/presenter for AGU Town Hall session (w/ J. Ryan and P. Asher) on “National Academy of Sciences Convocation Report: Integrating Discovery-Based Research Experiences into the Undergraduate STEM Curriculum.” AGU Fall Meeting, San Francisco, CA, December 16, 2015. Abstract TH33E.

- For the Geological Society of America (GSA)

- Co-leader for GSA full-day workshop, “Teaching Controversial Issues I: Climate and Energy,” and “Teaching Controversial Issues II: Evolution of Life and Earth,” Denver, CO, Geological Society of America Annual Meeting, October 26, 2013

- For the Council on Undergraduate Research (CUR)

- Facilitator for OK-INBRE event (funded by NIH), CUR Workshop Program on Institutionalizing Undergraduate Research for State Systems and Consortia, April 10-12, 2015
- Co-leader for CUR workshop “Institutionalizing Undergraduate Research at the Community College at Monroe Community College,” Rochester, NY, June 12-13, 2008
- Co-leader & Presenter for CUR half-day workshop at AGU Fall Meeting, “Getting Started in Undergraduate Research,” San Francisco, CA (December 15, 2009; December 3, 2012; December 9, 2013); Presenter-only (December 15, 2014; December 14, 2015; December 12, 2016)
- Co-leader for CUR workshop at Geological Society of America Annual Meeting: “Establishing and Sustaining an Undergraduate Research Program: A Professional Development Workshop for New and Future Faculty,” Charlotte, NC (November 3, 2012) and Portland, OR (October 17, 2009); also “Starting out in Undergraduate Research and Education: A Professional Development Workshop for Young Faculty,” Houston, TX (October 4, 2008)
- Co-leader for CUR Workshop at Association of American Geographers conference in Seattle, WA (April 12, 2011) and Las Vegas, NV (March 23, 2009)
- Co-leader for CUR workshop “Developing Undergraduate Research at Community Colleges: Tapping the Potential of All Students,”
 - Johnson County Community College, Kansas City, KS, April 27-29, 2012
 - Jefferson State Community College, Birmingham, AL, March 4-6, 2011

- Mesa Community College, Mesa, AZ, February 4-6, 2011
- Malcolm X College, Chicago, IL, October 1-3, 2010

- Other programs

- Co-convener for workshop “Advancing Scientific Ocean Drilling IMPACT.” [in-person and virtual]. Washington DC. June 14-15, 2022
- Invited panelist for NAGT-On the Cutting Edge webinar “What does "research" look like at the Introduction level, such as at 2YC's?” March 4, 2022
- Co-leader for workshop “2021 C3X Workshop on Internal & External Funding,” SAGE 2YC (Supporting and Advancing Geoscience Education in Two-Year Colleges.” [virtual]. May 27 & June 10, 2021
- Co-leader for workshop on “Engaging Students in Scientific Research in Your Course.” Earth Educators’ Rendezvous 2015, Boulder, CO, July 16-17, 2015
- Invited panelist for NAGT-SAGE 2YC webinar “The Spectrum of Student Research in Geoscience in Two-Year Colleges: Some Examples,” October 24, 2014
- Workshop leader/organizer for workshop on “Community-Based Research” for an interdisciplinary faculty community at Stevenson University, [virtual]. February-March 2011
- Invited speaker at PKAL/CCIC workshop at Yale University, “Building a Connecticut College and University STEM Network: Supporting Pedagogies of Engagement,” October 24, 2008
- Facilitator/Invited speaker for PKAL/MnSCU workshop at Southwest Minnesota State University, “Keeping Students Engaged in STEM,” April 25-26, 2008
- Co-leader for workshop “Planning for the Future of Geo-cybereducation,” Washington DC, funded by the National Science Foundation, January 6-8, 2010
- Local host for CUR-NSF workshop at PSU Brandywine, “Institutionalizing Undergraduate Research,” September 28-30, 2007
- Facilitator for CUR/NCIA NSF-ATE Conversation on Undergraduate Research with Community College Students, Redlands Community College, El Reno, OK, June 5-6, 2007
- Workshop team leader for Project Kaleidoscope 2002 Summer Institute, “Advising and Mentoring Students for the Future” in session “Strengthening Undergraduate Earth & Planetary Science Programs” (2002)

Conference organization/leadership

- Session primary convener and co-chair, Bringing Ocean Expeditions and Science at Sea to the Classroom and Community (poster session), Geological Society of America Annual Meeting, October 16, 2023.
- Session primary convener and co-chair, Diverse Voices: Embedding Science Storytelling in Pedagogical Practice (oral session), American Geophysical Union Fall 2021 Meeting, December 15, 2021.
- Session co-chair, Diversity, Equity, and Inclusion Poster Session, Earth Educators’ Rendezvous, July 14, 2021
- Session co-organizer and primary chair, Imagining Ocean Science: Education and Outreach Using Visualization, Storytelling, and the Arts (2 eLightning sessions, 1 poster session), Ocean Sciences Meeting 2020, February 17, 2020
- Session co-organizer and co-chair, Narrative as Pedagogy: Using Science Storytelling in Earth and Space Science Teaching (oral and poster sessions), American Geophysical Union Fall 2018 Meeting, December 14, 2018

- Conference host and organizer, Pennsylvania Earth Science Teachers Association (PAESTA) Science Conference on Climate Science, Penn State Brandywine, November 19, 2016
- Session organizer and co-chair, Implementing Discovery-Based Research Experiences in Undergraduate Geoscience Courses and Curricula, Geological Society of America Fall 2016 Meeting, September 28, 2016
- Session organizer and co-chair, Connecting K-12 and Higher Education: What Teachers Need, What Faculty Can Offer, Geological Society of America Northeast Section 2016 Meeting, March 21, 2016
- Conference organizer, Pennsylvania Earth Science Teachers Association (PAESTA) Conference, on site and in conjunction with the Regional National Science Teachers Association (NSTA) Annual Meeting in Philadelphia, PA, November 14, 2015
- Session organizer and co-chair, Research on Teaching and Student Learning in the K-12 Earth Science Classroom, Geological Society of America Fall 2015 Meeting, November 3, 2015.
- Session co-organizer and co-chair, Audio for Earth and Space Science Education and Outreach (poster session), AGU Fall 2014 Meeting, December 16, 2014
- Session co-organizer and chair, Geoscience Education (oral session), Northeast Section of the Geological Society of America Spring Meeting, March 23, 2014
- Session co-organizer and co-chair, Undergraduate Geoscience Research and Outreach (poster and virtual poster sessions), AGU Fall 2013 Meeting, December 11, 2013
- Session co-organizer and co-chair, Models of Successful Undergraduate Research Programs in the Earth Sciences, AGU Fall 2013 meeting, December 10, 2013
- Session co-organizer and co-chair, Changes in the Undergraduate Research Experience Over Time: Perspectives from Individual Mentors, Departments, and Institutions, GSA Fall 2013 Meeting, October 28, 2013
- Conference host and co-organizer, Pennsylvania Earth Science Teachers Association (PAESTA) Conference, Penn State Brandywine, October 4-5, 2013
- Session co-organizer and co-chair, Undergraduate Geoscience Research Highlights, AGU Fall 2012 Meeting, December 4, 2012
- Session co-organizer and co-chair, Teaching Controversy in the K-16 Earth Science Classroom, GSA Fall 2012 Meeting, November 4, 2012
- Conference host and co-organizer, Pennsylvania Earth Science Teachers Association (PAESTA) Conference, Penn State Brandywine, October 12-13, 2012
- Session co-organizer and co-chair, Identifying and Addressing K-16 Student Misconceptions in the Earth Science Classroom, GSA Fall 2011 Meeting, October 9, 2011
- Session co-organizer and co-chair, Faculty and Student Perspectives on Undergraduate Research: Models, Challenges, and Best Practices, Northeast/North-Central GSA Spring 2011 Meeting, March 20, 2011
- Session co-organizer and co-chair, Teaching and Research Challenges and Successes for Solitary Geologists in Academia, GSA Fall 2009 Meeting
- Session co-organizer and co-chair, Innovative Teacher Training Programs in Earth Science, AGU Fall 2007 Meeting
- Session organizer and co-chair, Early Undergraduate Research Experiences, GSA Fall 2007 Meeting
- Session co-organizer and co-chair, Effective Online Strategies for Teaching Geoscience at a Distance, GSA Fall 2006 Meeting
- Session co-chair, REU at 25: Its Impact on Undergraduate Education, GSA Fall 2005 Meeting
- Session co-chair, Geoscience Education Oral Session, GSA Fall 2004 Meeting

- Session co-organizer and co-chair, Field and Research Experiences for Students at Two-Year Colleges, GSA Annual Meeting 2003
- Session organizer and co-chair, Educational Issues in Teaching and Research at Two-Year Colleges, GSA Annual Meeting 2002
- Session organizer and moderator for Council on Undergraduate Research's 2002 National Conference, "Research at Two-Year Campuses." (2002)
- Session Chair, Geoscience Education Poster Session, AGU Spring 2000 Meeting

Professional Workshops/Short Courses *(select examples, as a participant)*

- IMPACT Workshop for Advancing Scientific Ocean Drilling Impact, from IODP/NSF/SERC: Engaging the Public, virtual, June 22-24, 2021; Preparing the Next Generation, virtual, August 2-4, 2021
- The National Park Service presents the NARRATIVE BLITZ, A New Model to Strengthen Your Communications, virtual, April 14, 2021
- The Breakthrough Inclusive Action Tool Kit Workshop, from Science Friday and 500 Women Scientists, virtual, February 17, 2021
- Write to Change the World, The OpEd Project, virtual, January 14-15, 2021
- 500 Women Scientists Wiki Scholar Program, Wiki Education, virtual, May-June 2020
- NASA ARSET (Applied Remote Sensing Training) – An Inside Look at how NASA Measures Air Pollution, virtual, May 26 & 28, 2020
- Service Learning in Undergraduate Geosciences (National Academies of Sciences, Engineering and Medicine), Washington DC, April 20-21, 2016
- Participated in the 1st and 2nd Summit on the Future of Undergraduate Geoscience Education (sponsored by the National Science Foundation), Austin, TX, January 8-10, 2016, January 10-12, 2014
- AGU Heads and Chairs Workshop, American Geophysical Union Fall Meeting 2015, San Francisco, CA, December 14, 2015
- Undergraduate Research in Earth Science Classes: Engaging Students in the First Two Years (NAGT/SERC/On The Cutting Edge – Professional Development for Geoscience Faculty), Bozeman, MT (August 10-13, 2014)
- Participated in ScienceOnline conferences: Together (Raleigh, NC, February 26-March 1, 2014); Oceans (Miami, FL, October 11-13, 2013); Climate (Washington, DC, August 15-17, 2013)
 - Ocean science in sixty seconds or less, ScienceOnline Oceans, Miami, FL, October 11, 2013
- Windows of Opportunity for Undergraduate Research Program Directors, led by the Council on Undergraduate Research, Orange, CA, June 22-23, 2013
- AGU URECAS (Unique Research Experiences for Two-Year College Faculty and Students), Washington DC, July 11-13, 2012
- Gateways to Best Practices for Undergraduate Research Program Directors, led by the Council on Undergraduate Research, St. Louis, MO, June 14-16, 2011
- The Fine International Conference on Gigapixel Imaging for Science, Carnegie Mellon University, Pittsburgh, PA, November 11-13, 2010
- Geology of Coastal Ecosystems Workshop, sponsored by the National Park Service, USGS, and the Geological Society of America, Ocean City, MD (1999)

- April Dialogue – Opportunities and Issues in Research and Education, sponsored by the Council on Undergraduate Research, National Science Foundation (1999)
- Sequence Stratigraphy of Prograding Complexes short course, CSPG/SEPM Joint Convention, Calgary, Alberta, Canada, by John Armentrout (1997)
- Sequence Stratigraphy and Sedimentology of Reef and Carbonate Platforms short course, Univ. of Miami, by Wolfgang Schlager and Gregor Eberli (1994)

- **Pedagogical & Professional Development** (*select examples*)

I have attended educational short courses/workshops through professional organizations (in-person and online) and annual conferences since 1994. Listed here are a sample listing of workshops from 2011:

- 2022 Adobe Creative Campus Faculty Development Institute (online, June 21-24, 27, 2022)
 - Adobe Creative Campus Faculty Fellow (Adobe Education, 2022)
- En-ROADS Climate Solutions Simulator workshops, from Climate Interactive and the MIT Sloan Sustainability Initiative: Visualizing Our Future Coasts: Sea-Level Rise Maps (online, November 4, 2021); Launch Event, En-ROADS Climate Solutions Simulator (online, December 3, 2019)
- ESRI/ArcGIS Training
 - Virtual Reality with GIS in Classrooms (online, December 6, 2022)
 - ESRI (ArcGIS) Education Summit (online, June 21-22, 2021)
 - Creating Story Maps with ArcGIS (June 2017)
- The Summit on Science Literacy in Higher Education, from Princeton University (online, June 14-16, 2021)
- American Association for the Advancement of Science (AAAS) and NSF IUSE workshops: Centering Identity: The Design of an Inclusive Teaching Course for STEM Faculty workshop (online, June 4, 2021); Promoting Equity in Undergraduate STEM Classrooms through Pedagogical Approaches (online, May 13, 2021)
- American Association of Colleges & Universities (AAC&U) workshops: Making Critical Thinking Assessments Better for Learning and Assessment (online, February 9, 2021); VALUE Rubrics 101: If, When, Why, and How to Hack Them to Improve Student Learning (online, February 8, 2021)
- Quality Matters workshop: Introduction to Quality Matters (design for online teaching/learning) (online, March 2021)
- National Association of Geoscience Teachers (NAGT) webinars: Getting Started with NASA Data: Mapping Hazards from Space (February 23, 2021); Developing a Sense of Place During Distance Learning (November 17, 2020); Science Communication for Social Justice (August 27, 2020)
- American Geophysical Union workshops: Scicomm essentials for successful storytelling (AGU Sharing Science Network, online, March 27, 2018); Documenting student success through ePortfolios (AGI/AGU Heads and Chairs webinar, online, March 23, 2018); Science storytelling in multimedia (AGU Communications Workshop, New Orleans, December 10, 2017)
- Adobe Professional Development: certificates for Explainer Videos (June 2019), Video Ads (March 2019), Visual Reports & Essays in the Classroom (May 2018), Podcasting in the Classroom (April 2018)
- Conferences focused on podcasting: Podcast Movement (August 2019); Sound Education [podcasting in higher education] (October 2019)
- edX course through SmithsonianX: ENVR1.1x: #EarthOptimism2018 (April 2018)
- Coursera course through Penn State University: Maps and the Geospatial Revolution (January 2018)
- Sustainability Competencies, Sustainability Curriculum Consortium (online, October 25, 2017)

- Sustainability Curriculum Consortium Faculty Conference 2017, Sustainability Curriculum Consortium (Philadelphia, June 26-27, 2017)
- ESRI Training: Creating Story Maps with ArcGIS (June 2017)
- Teaching About Natural Hazards and Risk, InTeGrate webinar from SERC (online, August 31, 2016)
- National Geographic Educator Certification (online program, completed Aug-Dec 2016)
- Tackling the Gender Gap in Wikipedia Through Course Assignments, webinar presented by the Wiki Education Foundation (online, April 30, 2015)
- Dynamic Mars: A Virtual, Interactive Professional Opportunity for College and University Faculty, online by NASA (January 13-22, 2015)
- Mapping with Google, presented by Google (MOOC, online, June 10-24, 2013)
- Incorporating Sustainability Into the Curriculum Webinar, presented by AASHE (online, May 29, 2013)
- Geophotography Webinar Series (NAGT/SERC/On The Cutting Edge – Professional Development for Geoscience Faculty, online series, February-April 2013)
- Smithsonian Tree Banding Project: “Climate, Classrooms and Trees,” presented by SHOUT – Smithsonian Education (online, January 26, 2011)
- *Through Penn State University*: Completed online course “OL 4000: Effective Online Course Design” (January-February 2016); Certificate for Online Teaching, World Campus Faculty Development Program (2013); Teaching with Technology Certificate, Penn State University (2011)

Field seminars and programs

- NOAA Ship *Oscar Dyson* - Summer Acoustic-Trawl Survey of Walleye Pollock in the Gulf of Alaska (June 2023)
 - Received NOAA Gold Coin Medallion (2022)
- IODP Expedition #390 (South Atlantic Transect) on *JOIDES Resolution* (sailed April-June 2022)
- Bonnet Carré Spillway, led by Josh Lewis, research director at the Tulane University ByWater Institute (Louisiana, December 15, 2021)
- OCEANDOTCOMM, by the Louisiana Universities Marine Consortium (LUMCON) (Louisiana, March 15-20, 2018)
- NOAA Teacher at Sea, a hydrographic survey on the NOAA Ship *Thomas Jefferson* (North Atlantic Ocean, September 2014)
- Walking Tour of the Downtown Raleigh Stormwater Tunnels, led by Scott Huler at the ScienceOnline Conference (North Carolina, 2014)
- Geological Society of America Penrose/American Geophysical Union Chapman conference, Coastal Processes and Environments Under Sea-Level Rise and Changing Climate: Science to Inform Management (Galveston, TX, April 14-19, 2013)
- History of Paleontology at the Florissant Fossil Beds National Monument, led by the National Park Service, Geological Society of America Annual Conference (Colorado, 2013)
- Shark tagging research with the University of Miami’s RJ Dunlap Marine Conservation Program (Florida, 2013)
- Marcellus Shale Drilling Site and the Grand Canyon of Pennsylvania, led by the PA Department of Conservation and Natural Resources and the Eastern Section of the National Association of Geoscience Teachers (Pennsylvania, 2013)

- Exploring Iceland's Physical Geography and Geomorphology, Chautauqua Program led by Jim Wysong (Iceland, 2013)
- Geological Society of America Penrose conference, Google Earth: Visualizing the Possibilities for Geoscience Education and Research (Mountain View, CA, January 4-8, 2011)
- Stewardship of Public Lands, led by the American Democracy Project/AASCU (Yellowstone National Park, WY, 2007)
- Dinosaur Provincial Park, led by D. Eberth, GeoSciEd IV meeting (Calgary, 2003)
- Watkins Glen State Park, led by faculty from the Geology Department of Cornell University, DLESE Annual Meeting (New York, 2002)
- Folly Beach, South Carolina: Tomorrow's Coastal Problems, Today, led by G. Lennon, Geological Society of America Southeastern Section Meeting (Charleston, SC, 2000)
- Geology and Geomorphology of Stone Mountain, Georgia, led by J.A. Whitney, J. Dennison, and P. Gore, Geological Society of America Southeastern Section Meeting (Athens, GA, 1999)
- Jurassic Morrison Dinosaurs of Utah and Colorado, led by D.D. Gillette, AAPG Annual Meeting (Salt Lake City, UT, 1998)
- Miocene Phosphate Deposits of Florida, led by J.S. Compton, 1st SEPM Congress on Sedimentary Geology "Linked Earth Systems" (St. Petersburg Beach, FL, 1995)
- Carbonate Sedimentology of Great Bahama Bank, led by R.N. Ginsburg (Bahamas, 1993)
- Participant in the Northern Baja Global Positioning System (GPS) Experiment, Baja California, Mexico, through the Jet Propulsion Laboratory (JPL) in Pasadena, California (Spring 1993)
- Summer undergraduate internship in nautical and aeronautical charting and surveying, GPS field experience, Field Photogrammetry Unit, National Ocean Service, NOAA (Summers 1991, 1992)

Podcast Series

Originator of the audio series *Tales from the Deep*, a collection of audio conversations recorded and stored in the StoryCorps Archive. Individuals that have a connection to scientific ocean drilling share stories beyond the scientific results to broaden the audience, education, and recorded history of doing science at sea. Recordings began in November 2022, and audio files can be accessed at:

<https://bit.ly/sciodstorycorps> As of March 2024, I have recorded/edited 22 conversations.

Penn State University Committees

- Campus level, Academic Affairs: College representative for College of Earth and Mineral Science (2001-present); Campus coordinator for the Environmental Inquiry Minor (2010-present); Campus coordinator for the Earth Sustainability Certificate (2018-present); Campus coordinator of the Civic and Community Engagement Minor (2005-2009, 2011-2013)
Additional campus committee work includes: Campus Faculty Senate (Chair 2017-2018, Chair-Elect 2016-2017, Past Chair 2018-2020 (served extra term as past chair due to faculty retirement)); Campus Promotion & Tenure Committee (2008-2010, 2016-2018, 2022-2024); Campus Strategic Planning Committee (2014-2018, Co-Chair 2016-2017); Campus Faculty Executive Committee Member (2002-2004, 2009-2011, 2016-2020); Member and Chair of Campus Curricular Affairs (2015-2016); Strategic Communications Committee (2022-present); Teaching Committee (2022-present); Women's Commission (2018-2019); Sustainovation Task Force (co-chair, 2017-2021); Coordinator for the Laboratory for Civic Engagement (2011-2013);

STEM Options Committee (2016-2020, Chair 2017-2020); Blue and White Ball Committee (2015-2016); Campus Undergraduate Research Committee (2009-2013, 2014-2015, Chair 2014-2015); Honors program coordinator for campus (2006-2011); Campus Schreyer Honors Coordinator (2009-2012); Honors Faculty Committee (2003-2012); Campus Green/Sustainability Committee (co-chair, 2009-2010, member 2017-2020); Campus Common Read Committee (2011-2012); Capital Campaign Committee (2009); Faculty search committees (DAA, tenure-line, instructor, librarian; Chair of chemistry search in 2017); Additional search committees (Registrar, Director of Center for Ethics and Civic Engagement); Faculty Awards Committee (2013-2016); Faculty Admissions Advisory Committee (2007-2008); Technology Advisory Committee (2003-2009); Online Teaching and Course Task Force (2015-2016); EURECA (campus student research symposium, Spring 2003-Spring 2005, 2008-2009, 2013); Organizer of Clarence D. Bell Public Service Lecture Series (4 lectures in each 2006, 2007, 2008); Organizer of Voices of Innovation Seminar Series (3-4 lectures in Fall 2008, 2009, 2010); Faculty Advisory Group for Student Life (2002-2004)

- Campus level, Service/Volunteer: Co-organizer of TEDxPSUBrandywine (2021); Co-chair of Nature Narratives Writing Contest (2018-2022); Faculty Adviser for Sustainovation Club (2017-2020); Faculty Adviser for We Are Penn State MADE (Making A Difference Everyday) (2004-2007, 2011-2013); Co-chair of Knittany Lion Needleworks (2003-2013); Overseas Coupon Program campus coordinator (2007-2012); Faculty Adviser for THON, Penn State Dance Marathon (2003-2013); TEDxPSU Watch Party co-organizer (Fall 2010, Fall 2011); 40th Anniversary Campus Committee and Chair of 40 Acts of Kindness Sub-committee (2006-2008); Take Our Daughters and Sons to Work Day Working Group (2004); Earth Day Working Group (2004)
- College level: Distinguished Professor Promotion Review Committee (2022-present); University College P&T Committee member (2018-2019); Served on P&T committee for candidates at various Penn State Commonwealth campuses (2 for 2009, 2 for 2010, 1 for 2011, 4 for 2012, 1 for 2016, 2 for 2017, 2 for 2019, 2 for 2022); performed a pre-promotion review for faculty seeking promotion to full or distinguished professor (2 faculty in 2017; 1 faculty in 2020; 1 for 2022; 1 for 2023); University College Faculty Council Peer Teaching Handbook Review Committee (2024); University College Division of Science P&T Guidelines Revision Task Force (2023); Review of transfer syllabi for the College of Earth and Mineral Sciences (2016-present); Royer Center's Ubiquitous Computing Committee (2003-2004); member of Technical Review Committee, First Undergraduate Research Poster Session/Division of Science/Commonwealth College/Penn State University (2002)
- University level: Penn State Water Council (2021-present; Co-Chair 2023-2024); Teaching and Learning with Technology Faculty Advisory Committee (2023-2024); Vice President for Commonwealth Campuses and Executive Chancellor search (2023); Next Gen Penn State Advisory Group for PSU Presidential search (2021-2022); Stewarding Our Planet's Resources Steering Committee for Strategic Planning (2020-2022); Data-Informed Pedagogy Faculty Community through the Teaching and Learning with Technology group (co-leader and founding member, 2021-2023); Sustainable Communities Collaborative (SCC) through the Penn State Sustainability Institute (2017-2021); Review Committee for The President's Award for Excellence in Academic Integration Award (2021); Review Committee for Teaching with Technology Award (2019-2020); Reimagining Information Technology (2019); ScholarSphere Users Group/University Libraries (2013-2015); IT Strategic Planning Committee (2012-2013); Co-chair of intercollege minor on civic and community

engagement (2006-2010); Laboratory for Public Scholarship and Democracy Advisory Council (2006-2007); Faculty Advisory Committee for the Schreyer Honors College (Fall 2007-Spring 2012); Reader of essays for prospective Schreyer Honors Scholars (Fall 2006-Spring 2009)

- Additional promotion and tenure/review service (*beyond committee assignments listed above*)
 - Asked by department chair to write letter of support for dossier for tenure and promotion candidate at a university outside of Penn State (Summer 2016)
 - Asked by candidates to provide a letter of support for dossier for promotion to full professor (1 in 2020, 2 in 2021)
 - External reviewer of faculty dossier for promotion from Lecturer to Senior Lecturer, for a university outside of Penn State (1 in 2016)
 - External reviewer of faculty dossier for promotion from Associate Professor to Full Professor, for a university outside of Penn State (1 in 2023)
 - Peer review of Penn State Brandywine tenure-line faculty going for promotion (2016, 2018, 2019, 2020, 2021, 2023); peer review of fixed-term faculty going for promotion (2017); peer review of part-time faculty (2016, 2019, 2023); provided support letter for faculty librarian up for review (2017, 2019, 2021)
 - Co-developed/lead a Promotion and Tenure Workshop for tenure-line faculty at Penn State Brandywine (2019-2021, 2023), Peer Review of Faculty Teaching Workshop (2020)

Leadership Roles and Service on Local/National/International Committees

- International Ocean Discovery Program (IODP)
 - International working group on scientific ocean drilling science communication (2022-present)
 - U.S. Advisory Committee for Scientific Ocean Drilling (USAC), the national advisory committee for U.S. participation in the International Ocean Discovery Program (IODP)
 - Election/appointment October 1, 2021, through September 30, 2024
 - Assigned to Science Communication Subcommittee
 - Creator and program manager for StoryCorps Archive, “Tales from the Deep: Stories of Scientific Ocean Drilling” (2022-present) <https://bit.ly/SciODstorycorps>
- The Oceanography Society (TOS, international organization)
 - Elected as geological oceanography councilor (April 2022-December 2024)
- American Geophysical Union (AGU, international organization)
 - AGU Bridge Partner Selection Committee member (October 2022-December 2024)
 - AGU Meetings Committee member (April 2015-December 2018, March 2020-Dec. 2021)
 - Chair of Virtual Engagement and Sustainable Meetings Advisory Group (March-December 2020)
 - AGU Talent Pool Strategy Task Force (2017-2018)
 - Educational consultant, AGU Affiliation and Engagement Task Force (April-May 2016)
 - Member of search committee for Fall Meeting Chair (Fall 2016, Spring 2019)
- National Academies of Sciences, Engineering, and Medicine (NASEM)
 - Committee for Convocation on *Integrating Discovery-Based Research into the Undergraduate Curriculum*, Division on Earth and Life Studies, Division of Behavioral and Social Sciences and Education (2015)
- National Association of Geoscience Teachers (NAGT)

- Member of NAGT James H. Shea Award Committee (2021-2024)
- Member of NAGT Teach the Earth Committee (2020-2026 (2 terms))
- Organizer/leader of 12-person faculty cohort in the URGE (Unlearning Racism in Geoscience) Program (2021)
- Member of search committee for editor of publication *In The Trenches* (July-Nov. 2016)
- Councilor-at-large, National Association of Geoscience Teachers (2006-2009)
- Council on Undergraduate Research (CUR)
 - Councilor for Geosciences Division (elected position, 2003-2018)
 - Chair of CUR Geoscience Division (2008-2010)
 - Co-founder and member of GeoCUR Undergraduate Research Mentor Award Committee (2011-2017)
 - Co-founder and member of GeoCUR Award for Excellence in Student Research (2013-2018)
 - Member of search committee for editor of CUR Quarterly (Fall 2013)
 - Campus representative (2001-present)
- Geological Society of America (GSA)
 - Biggs Earth Science Teaching Award Review Committee (March 2010, 2021)
 - Volunteer Coordinator for combined Northeast/Southeast Geological Society of America Section Meeting (March 13-16, 2010)
 - Campus representative (2002-present)
- Earth Science Women's Network (ESWN)
 - Member Engagement Committee (2021-present)
- Barry Goldwater Scholarship & Excellence in Education Foundation/Scholarship America, Inc.
 - Goldwater campus representative (2018-present)
- National Science Teachers Association (NSTA)
 - Member of NSTA's Multicultural/Equity Science Education Committee (2003-2006)
- Pennsylvania Earth Science Teachers Association (PAESTA)
 - Co-founder of the organization (2010)
 - President, 2 terms (2012-2013, 2014-2015); President-Elect, 2 terms (2011-2012, 2013-2014)
 - Executive Committee member (2011-2016)
 - Newsletter editor (2012-2017), Elementary edition editor (2013-2016)
- Delaware County Institute of Science (DCIS, Pennsylvania)
 - Lecture Series coordinator (established first-ever virtual lecture series, invited six speakers, created website, 2020-2022; invited eight speakers, recorded/edited videos for website, 2021-2024)
 - Board of Editors for the *Proceedings of the Delaware County Institute of Science* (November 2017-2020)
- Board of Trustees for Tyler Arboretum, Media, PA (2011-2020)
 - Chair of Education Committee (2012-2020)
 - Member of search committee for Director of Public Programs position (2013)
 - Secretary and Member of Executive Committee (2014-2020)
 - Member of Strategic Planning Committee (2015-2018)
 - Member of Technology Committee (2015-2016)
 - Member of Succession Planning/Executive Director Search (2014-2016, 2018-2019)
- 500 Women Scientists Philadelphia Pod
 - Bi-Weekly/Monthly newsletter co-editor (2019-2023)
 - Social media manager (2020-2023)

- External discipline program reviewer
 - Kutztown University geology program (Nov-Dec 2021)

Memberships

- National Association of Geoscience Teachers (NAGT) (1993-present)
- Geological Society of America (GSA) (1993-present)
- American Geophysical Union (AGU) (1994-present)
- Council on Undergraduate Research (CUR) (1994-present)
- National Marine Educators Association (2013-present)
- The Oceanography Society (2020-present)
- Sigma Xi (1996-present)
- Association of Women Geoscientists (2012-present)
- American Association for the Advancement of Science (2017-present)
- Women's Aquatic Network (WAN) (2021-present)
- Association of Science Communicators (ASC) (2022-present)
- Guild of Natural Science Illustrators (GNSI) (2023-present)
- National Science Teachers Association (NSTA) (1998-2018; 2023-present)
- Eastern Section, Society for Sedimentary Geology (became lifetime member in 2023)
- Pennsylvania Geographical Society (PGS) (became lifetime member in 2008)

Organizations/networks that are not dues paying but active at the state/national/international level include: Earth Science Women's Network (2015-present); International Association for Geoscience Diversity (2013-present); 500 Women Scientists & 500WS Philly Pod (2017-present); Society of Women in Marine Science (2018-present); Women in Ocean Science (2023-present); Pennsylvania Earth Science Teachers Association (PAESTA) (2010-present)

Past memberships include: National Earth Science Teachers Association (NESTA) (2008-2019); Association of American Geographers (AAG) (2008-2011); National Council for Geographic Education (NCGE) (2009-2011); National Collegiate Honors Council (NCHC) (2006-2010); Northeast Regional Honors Council (NRHC) (2009-2011); International Society for Technology in Education (ISTE) (2005-2006, 2008-2012); Pennsylvania Academy of Science (PAS) (2005-2018)

Abstracts (conferences/reviewed/published)

Guertin, L. (2024). Stitching stories of scientific ocean drilling: a quilt collection of the South Atlantic Transect (IODP Expeditions 390 and 393). Abstract ED44A-0196, presented at Ocean Sciences Meeting 2024, New Orleans, LA, 22 Feb.

Guertin, L., Pincus, M., Yakutchik, M. (2024). Humanizing the scientific ocean drilling community through stories from the field: what we're learning as we build an audio archive of conversations. Abstract ED41A-06, presented at Ocean Sciences Meeting 2024, New Orleans, LA, 22 Feb.

Guertin, L., Yakutchik, M., Pincus, M. (2023). Expanding the reach of scientific ocean drilling through audio narratives – helping non-STEM communities understand what it is, and why it matters. Abstract SY44A-03, presented at the 2023 Fall Meeting AGU, San Francisco, CA, 14 Dec.

Guertin, L., and IODP Expedition 390 & 393 scientists. (2023). Gamification of quilts to increase ocean education and engagement: examples from scientific ocean drilling (IODP Expeditions 390 & 393). Geological Society of America Abstracts with Programs, Vol. 55, No. 6. doi: 10.1130/abs/2023AM-393301

Cotterill, C., Yakutchik, M., Guertin, L., Garnsworthy, M., 392 scientists, E., and 390 and 393 scientists, S. A. T. I. E.: (2023). From science to stories: different ways to engage new audiences, EGU General Assembly 2023, Vienna, Austria, 24–28 Apr 2023, EGU23-7280.

Catalano, C., Williams, N., Guertin, L. (2023). Tracking mentions of historic and modern oceanographic research vessels in introductory-level oceanography print and online (OER) textbooks. Geological Society of America Abstracts with Programs, Vol. 55, No. 2. doi: 10.1130/abs/2023SE-385296 Undergraduate student co-authors/presenters.

Guertin, L., Yakutchik, M., Pincus, M. (2023). Audio narratives from scientific ocean drilling: gathering content for StoryCorps. Geological Society of America Abstracts with Programs. Vol. 55, No. 2, 2023 doi: 10.1130/abs/2023SE-385247

Guertin, L. (2022). Student perspectives via audio narrative of the UN Conference of Parties (COP). Abstract SY42C-0639, presented at the 2022 Fall Meeting AGU, Chicago, IL, 15 Dec.

Kraal, E., Guertin, L., Sirrakos, G., Epstein, A. (2021). Student-created audio stories impact perceptions of learning environment. Abstract ED34A-05, presented at the 2021 Fall Meeting AGU, New Orleans, LA, 15 Dec.

Guertin, L., Kraft, K., Nagy-Shadman, E., Ormand, C., Johnson, B., Layou, K. (2021). Unlearning Racism in Geoscience at 2YCs: curricular resources, policies, and more from the 2YC URGE pod. Abstract U35A-2231, presented at the 2021 Fall Meeting AGU, New Orleans, LA, 15 Dec.

Guertin, L., Ormand, C., Johnson, B., Nagy, E., Helgers, K., Kraft, K., Layou, K. (2021). Attracting, supporting, and preparing BIPOC students for early success in geoscience: policies, curricular materials, and other resources form the 2YC URGE pod. Abstracts with Programs (Geological Society of America), v. 53, n. 6, doi: 10.1130/abs/2021AM-364366

Guertin, L., Theveny, K., Barber, D. (2020). Keeping the science conversations going with an arboretum-university educational partnership via virtual podcast discussions. Abstract SY041-10, presented at the 2020 Fall Meeting AGU, online, 11 Dec. Undergraduate student co-author.

Briseño, I., Guertin, L. (2020). Educating with ArcGIS StoryMaps to promote ocean literacy and to highlight connections between generations, cultures, and disciplines. Abstract SY008-10, presented at the 2020 Fall Meeting AGU, online, 7 Dec. Undergraduate student presenter.

Guertin, L. (2020). Capturing and communicating stories of adaptation and resilience in coastal Louisiana through science art. Abstracts with Programs (Geological Society of America), v. 52, n. 6, doi: 10.1130/abs/2020AM-358169

Guertin, L. (2020). Countering stereotypes and showcasing diversity: students share preferred pathway to broadening their views of scientists. Abstracts with Programs (Geological Society of America), v. 52, n. 6, doi: 10.1130/abs/2020AM-358314

Guertin, L., Berkey, J., Jansen, A. (2020). Student-produced coastal optimism rally speeches: going beyond the doom and gloom for stories of resilience and hope. Abstract ED11B-08, presented at the 2020 Ocean Sciences Meeting, San Diego, CA, 17 Feb.

Guertin, L. (2020). Stitching hope for the Louisiana coast: science storytelling with quilts. Abstract ED24B-3606, presented at the 2020 Ocean Sciences Meeting, San Diego, CA, 18 Feb.

Losco, R., Guertin, L., Kraal, E. (2019). Engaging students in introductory-level Earth science courses through Student Produced Audio Narratives (SPAN). Abstracts with Programs (Geological Society of America), v. 51, n. 5, doi: 10.1130/abs/2019AM-337459

Kraal, E., Guertin, L., Sirrakos, G., Epstein, A. (2019). Student Produced Audio Narratives. 2019 STEM For All Video Showcase, by National Science Foundation. May 13-20, 2019. Available at: <https://stemforall2019.videohall.com/presentations/1513>

Guertin, L.A., Jansen, A., Berkey, J. (2018). Attitudinal changes towards the United Nations Sustainable Development Goals (SDGs) through student-generated sustainability stories anchored in science and information literacies. Abstract ED53F-0765, presented at the 2018 Fall Meeting AGU, Washington DC, 14 Dec.

Guertin, L.A. (2018). Quilting stories of coastal optimism – but do they provide hope for the Louisiana coast? Abstract ED43C-1260, presented at the 2018 Fall Meeting AGU, Washington DC, 13 Dec.

Guertin, L.A. (2017). Utilizing crochet to showcase temporal patterns in temperature records from one location to spark a climate conversation. Abstract PA43A-0315, presented at the 2017 Fall Meeting, AGU, New Orleans, LA, 14 Dec.

Guertin, L.A., Aitala, E. (2017). Making climate and energy educational resources accessible through the Pennsylvania Earth Science Teachers Association (PAESTA). Abstracts with Programs (Geological Society of America), v. 49, n. 2, doi: 10.1130/abs/2017NE-291536

Guertin, L.A. (2017). Representing women geoscientists with selfies and stories. Abstracts with Programs (Geological Society of America), v. 49, n. 2, doi: 10.1130/abs/2017NE-291595

Guertin, L.A. (2016). It starts with a hashtag... the #365scienceselfies Project. Abstract PA31C-2211, presented at the 2016 Fall Meeting AGU, San Francisco, CA, 14 Dec.

Guertin, L.A., Farley, I., Geary, A. (2016). Developing student science and information literacy through

contributions to the Society of Exploration Geophysicists (SEG) Wiki. Abstract ED21A-0764, presented at the 2016 Fall Meeting AGU, San Francisco, CA, 13 Dec.

Bralower, T.J., Guertin, L.A. (2016). New sustainability programs and their impact at a large public state university. Abstract ED13E-0952, presented at the 2016 Fall Meeting AGU, San Francisco, CA, 12 Dec.

Guertin, L. (2016). Who am I? Just a female scientist taking #365science selfies. Abstracts with Programs (Geological Society of America), v. 48, n. 7, doi: 10.1130/abs/2016AM-276632 **Invited presentation.**

Hand, B., Guertin, L., Marquit, J. (2016). Penn State Brandywine Tree Removal Eco-Services Impact Survey. 92nd Annual Meeting of the Pennsylvania Academy of Science. Delaware Valley University, Doylestown, PA, April 3, 2016. Undergraduate student lead author and presenter.

Guertin, L., Farley, I., Geary, A. (2016). The Society of Exploration Geophysicists (SEG) Wiki – A geoscience content resource for teachers and middle/high school students. Abstracts with Programs (Geological Society of America), v. 48, n., 2, doi: 10.1130/abs/2016NE-271828

Yeh, M.K.C., Toshtzar, A, Guertin, L., Yan, Y. (2016). Using spaced repetition and gamification to enhance K-12 student science literacy with on-demand mobile short reads. 2016 IEEE Frontiers in Education Conference (FIE), Erie, PA, p. 1-4. doi: 10.1109/FIE.2016.7757361

Guertin, L., Tait, K. (2015). You Asked, We Answered! A podcasting series by scientists for K-12 teachers through the Pennsylvania Earth Science Teachers Association (PAESTA). Abstract ED53G-05, presented at the 2015 Fall Meeting AGU, San Francisco, CA, 18 Dec. Middle school teacher co-author.

Guertin, L., Ambos, E., Brenner, K., Asher, P., Ryan, J. (2015). Integrating discovery-based research experiences into the undergraduate STEM curriculum: A convocation report from the National Academies of Sciences, Engineering and Medicine. Abstract ED11A-0851, presented at the 2015 Fall Meeting AGU, San Francisco, CA, 14 Dec.

Guertin, L. (2015). Bringing the Google 80/20 Model to an introductory-level environmental course: a student opportunity for creativity, innovation, and investigation. Abstracts with Programs (Geological Society of America), v. 47, n. 7, p. 475. **Invited presentation.**

Clements, N., Guertin, L. (2015). Laying the foundation for information literacy in introductory-level Earth science courses. Abstracts with Programs (Geological Society of America), v. 47, n. 7, p. 475.

Guertin, L. (2014). Student contributions to citizen science programs as a foundation for independent and classroom-based undergraduate research in the Earth sciences. Abstract ED21D-3473, presented at the 2014 Fall Meeting AGU, San Francisco, CA, 15-19 Dec.

Bowen, K., Guertin, L. (2014). Using the citizen science Picture Post project as the foundation for campus environmental monitoring by undergraduate student researchers. Abstract ED53A-3464, presented at the 2014 Fall Meeting AGU, San Francisco, CA, 15-19 Dec. Undergraduate student lead

author and presenter.

Guertin, L. (2014). Helping students open doors to undergraduate research experiences upon transfer. Abstracts with Programs (Geological Society of America), v. 46, n. 6, p. 245.

Fox, L.K., Guertin, L. (2013). Faculty development workshops to support establishing and sustaining undergraduate research programs in the Earth sciences. Abstract ED23E-05, presented at 2013 Fall Meeting AGU, San Francisco, CA, 9-13 Dec.

Guertin, L. (2013). The Journeys of Dr. G: a blog designed for students to learn about the life of a faculty member in the Earth sciences. Abstract ED43D-0788, presented at 2013 Fall Meeting AGU, San Francisco, CA, 9-13 Dec.

Guertin, L.A., Furman, T., Mundry, S., Lewis-King, T., McDonald, S. (2013). Teacher professional development through the Pennsylvania Earth Science Teachers Association (PAESTA). Abstracts with Programs (Geological Society of America), v. 45, n. 7, p. 659.

Guertin, L.A. (2013). How new technologies advance mentoring practices with non-residential undergraduate researchers. Abstracts with Programs (Geological Society of America), v. 45, n. 7, p. 364.

Fox, L.K., Guertin, L.A., Manley, P.L., Pollock, M. (2013). Undergraduate research as effective pedagogy supported by the geosciences division of the Council on Undergraduate Research (GeoCUR). Abstracts with Programs (Geological Society of America), v. 45, n. 7, p. 733.

Manley, P., Guertin, L.A., Fox, L.K., Ambos, E. (2013). Undergraduate research as a teaching practice: Geosciences division of the Council on Undergraduate Research. Abstracts with Programs (Geological Society of America), v. 45, n. 7, p. 205.

McDonald, S., Bembenic, M., Guertin, L., Licon, P., Preston, S., and Furman, T. (2013). Developing a Hypothetical Learning Progression for Plate Tectonics. Poster presented at the annual meeting of the National Association for Research on Science Teaching (NARST), April 5-9, Rio Grande, PR.

Fox, L., Guertin, L., Manley, P., Fortner, S. (2012). The Geoscience Division of the Council on Undergraduate Research (GeoCUR): supporting faculty that mentor undergraduate researchers. Abstract ED51C-0902, presented at 2012 Fall meeting, AGU, San Francisco, CA, 3-7 Dec.

Dufoe, A., Guertin, L. (2012). Controversies in the Hydrosphere: an iBook exploring current global water issues for middle school classrooms. Abstract ED23B-0758, presented at 2012 Fall Meeting, AGU, San Francisco, CA, 3-7 Dec. Undergraduate student lead author and presenter.

Guertin, L. (2012). VoiceThread as a peer review and dissemination tool for undergraduate research. Abstract PA23B-07, presented at 2012 Fall Meeting AGU, San Francisco, CA, 3-7 Dec.

Guertin, L. (2012). Community-based research projects with podcasting in introductory-level geoscience courses. Abstracts with Programs (Geological Society of America), v. 44, n. 7, p. 611. **Invited presentation.**

Guertin, L. (2012). Introducing students to the controversies surrounding the ownership and sale of fossils. Abstracts with Programs (Geological Society of America), v. 44, n. 7, p. 45.

Pollock, M., Guertin, L. (2012). Enhancing undergraduate research with social media. Abstracts with Programs (Geological Society of America), v. 44, n. 7, p. 611.

van der Hoeven Kraft, K., Guertin, L.A., Filson, R.H., Macdonald, H., McDaris, J. (2011). Issues, challenges, and opportunities in geoscience education and broadening participation in the geosciences at two-year colleges. Abstract ED11E-07, presented at 2011 Fall Meeting, AGU, San Francisco, CA, 5-9 Dec.

Baer, E., Macdonald, H., McDaris, J.R., Granshaw, F., Wenner, J.M., Hodder, J., van der Hoeven Kraft, K., Filson, R., Guertin, L.A., Wiese, K. (2011). Professional development opportunities for two-year college geoscience faculty: Issues, opportunities, and successes. Abstract ED42A-05, presented at 2011 Fall Meeting, AGU, San Francisco, CA, 5-9 Dec.

Guertin, L. (2011). Student-Generated Google Earth Course Portfolios in Earth Science Courses. Abstracts with Programs (Geological Society of America), v. 43, n. 5, p. 477.

Guertin, L., Licona, P., Pickard, M. (2011). Middle and High School Teacher Misconceptions of Geologic Time. Abstracts with Programs (Geological Society of America), v. 43, n. 5, p. 67. Graduate student co-authors.

Pickard, M., Licona, P., Guertin, L. (2011). Upper Elementary through High School and Teacher Misconceptions of the Interior of the Earth. Abstracts with Programs (Geological Society of America), v. 43, n. 5, p. 66. Graduate student lead author and presenter.

Licona, P., Pickard, M., Guertin, L. (2011) Upper Elementary through High School and Teacher Misconceptions of the Causes of the Breakup of Pangaea. Abstracts with Programs (Geological Society of America), v. 43, n. 5, p. 67. Graduate student lead author and presenter.

Pickard, M., Furman, T., Guertin, L., Bembenic, M.A., Endress, C.A., Neville, S. Hartwell, B.J. (2011). Using geoscience graduate students to develop and implement inquiry-based K-12 Earth Science lessons. Abstracts with Programs (Geological Society of America), v. 43, n. 1, p. 80. Graduate student lead author and presenter.

Neville, S., Guertin, L. (2011). Sky in Google Earth as a tool for student inquiry and exploration. Abstracts with Programs (Geological Society of America), v. 43, n. 1, p. 79. Undergraduate student author and presenter.

Neville, S., Mookerjee, L., Guertin, L. (2011). Uses of existing GigaPan images in the Earth and Space Science classroom. Abstracts with Programs (Geological Society of America), v. 43, n. 1, p. 79. Undergraduate student authors and presenter.

Guertin, L.A. (2011). Benefits and strategies for adding scientific audio news stories to the K-12 classroom. Abstracts with Programs (Geological Society of America), v. 43, n. 1, p. 79.

Macdonald, R.H., Filson, R.H., Guertin, L.A., Van Der Hoeven Kraft, K. (2010). Results of a workshop on the role of two-year colleges in geoscience education and broadening participation in the geosciences. Abstracts with Programs (Geological Society of America), v. 42, n. 5, p. 156.

Bembenic, M., Endress, C., Hartwell, B., Guertin, L., Furman, T. (2010). An adaptable unit for educating students about coal for today and tomorrow. Abstracts with Programs (Geological Society of America), v. 42, n. 1, p. 96. Graduate student authors and presenter.

Bembenic, M., Hartwell, B., Endress, C., Guertin, L., Furman, T. (2010). More than memorization: giving physical and geological meaning to the rock cycle. Abstracts with Programs (Geological Society of America), v. 42, n. 1, p. 132. Graduate student authors and presenter.

Dorsch, A., Furman, T., Guertin, L. (2010). Inquiry-based activities for differentiated instruction on human-induced climate change. Abstracts with Programs (Geological Society of America), v. 42, n. 1, p. 96. Middle school teacher presenter.

Drozynski, D., Furman, T., Ellis, J., Guertin, L. (2010). Using student questions to guide Earth Science inquiry in middle school. Abstracts with Programs (Geological Society of America), v. 42, n. 1, p. 131. Middle school teacher presenter, student co-author.

Guertin, L., Neville, S. (2010). Enhancing middle and high school student understanding of Earth system science through a Google Earth QUEST. Abstracts with Programs (Geological Society of America), v. 42, n. 1, p. 132. Undergraduate student co-author.

Guertin, L., Neville, S., Hartline, J. (2010). The benefits of utilizing Google Earth as an undergraduate research tool for non-science majors. Abstracts with Programs (Geological Society of America), v. 42, n. 1, p. 75. Undergraduate student co-authors.

Hoffman, J., Vishio, N., Bembenic, M., Guertin, L., Furman, T. (2010). Designing sustainable communities: an inquiry based approach to teaching Earth systems science. Abstracts with Programs (Geological Society of America), v. 42, n. 1, p. 132. Middle school teacher presenters, graduate student co-author.

Shafer, B., Endress, C., Furman, T., Guertin, L. (2010). Eliminating students' misconceptions of radioactive decay and radiometric dating through hands-on activities. Abstracts with Programs (Geological Society of America), v. 42, n. 1, p. 131. Middle school teacher presenter, graduate student co-author.

Tait, K., Pickard, M., Guertin, L., Furman, T. (2010). Dispelling middle school misconceptions of Grand Canyon formation through hands-on activities. Abstracts with Programs (Geological Society of America), v. 42, n. 1, p. 131. Middle school teacher presenter, graduate student co-author.

Guertin, L.A. (2009). Using an online photo-sharing tool (Flickr) to connect students during Earth Science Week. *EOS, Trans. AGU, 90(52)*, Fall Meet. Suppl., Abstract ED14A-08.

Neville, S.E., Guertin, L.A. (2009). Using a Google Earth QUEST to improve Earth Science, reading, and geographic literacy. *EOS, Trans. AGU, 90(52)*, Fall Meet. Suppl., Abstract ED53A-0533. Undergraduate student lead author and presenter.

Endress, C., Bembenic, M.A., Hartwell, B.J., Guertin, L.A., Furman, T. (2009). Utilizing graduate student teaching fellows to bring Big Ideas in a local context to middle and high school students. *Abstracts with Programs (Geological Society of America)*, v. 41, n. 7, p. 713. Graduate student authors and presenter.

Guertin, L.A., Neville, S.E. (2009). Adapting Google Lit Trips for the geosciences. *Abstracts with Programs (Geological Society of America)*, v. 41, n. 7, p. 499. Undergraduate student co-author.

Guertin, L.A. (2009). Broadening the definition of geosciences research to the introductory level. *Abstracts with Programs (Geological Society of America)*, v. 41, n. 7, p. 537. **Invited presentation.**

Guertin, L.A. (2009). Cemeteries as sites of multidisciplinary research for undergraduate students. Association of American Geographers Annual Meeting, http://communicate.aag.org/eseries/aag_org/program/AbstractDetail.cfm?AbstractID=22756

Guertin, L.A., Bodek, M.J. (2008). Student use and perceptions of handheld computers for geoscience fieldwork and in-class quizzing. *Abstracts with Programs (Geological Society of America)*, v. 40. Invited speaker.

Narkiewicz, M.R., Charles, L., Klein, C., Furman, T., Guertin, L.A. (2008). Improving high school Earth science instruction through integrating an Earth systems science matrix. *Abstracts with Programs (Geological Society of America)*, v. 40. Graduate student authors and lead presenter.

Nelson, W.R., Narkiewicz, M.R., Alexander, G.W., Furman, T., Guertin, L.A. (2008). Transforming Earth System Science Education (TESSE): the rewards and challenges associated with integrating graduate students into the classroom. *Abstracts with Programs (Geological Society of America)*, v. 40. Graduate student authors and lead presenter.

Alexander, G.W., Narkiewicz, M.R., Nelson, W.R., Furman, T., Guertin, L.A. (2008). Online inquiry-based Earth system science resource for engaging middle and high school students. *Abstracts with Programs (Geological Society of America)*, v. 40. Graduate student authors and lead presenter.

Guertin, L.A., Bodek, M.J. (2008). Utilizing enhanced podcasts and Google Earth to create Earth science virtual tours. *Abstracts with Programs (Geological Society of America)*, v. 40.

Graham, K., Henderson, S., Bryce, J., Finkel, L., Guertin, L.A., Varner, R., Johnson, J., Furman, T., Darwish, A., Porter, W. (2008). Enhancing middle and high school geoscience teacher preparation through research experience, foundational coursework, and classroom collaboration with university graduate students. *Abstracts with Programs (Geological Society of America)*, v. 40.

Finkel, L., Varner, R., Froburg, E., Smith, M., Graham, K., Hale, S., Laura, G., Brown, D., Bryce, J., Darwish, A., Furman, T., Johnson, J., Porter, W., Von Damm, K. (2007), Supporting inquiry-based Earth System Science instruction with middle and high school Earth Science teachers, *EOS, Trans. AGU*, 88(52), Fall Meet. Suppl., Abstract ED44A-03. (*NOTE: my name was entered incorrectly on the abstract form, where my first name was placed where my last name should be)

Graham, K.J., Bryce, J.G., Brown, D., Darwish, A., Finkel, L., Froburg, E., Furman, T., Guertin, L., Hale, S.R., Johnson, J., Porter, W., Smith, M., Varner, R., Von Damm, K. (2007), The transforming Earth System Science Education (TESSE) Program, *EOS, Trans. AGU*, 88(52), Fall Meet. Suppl., Abstract ED51A-0123.

Varner, R., Furman, T., Porter, W., Darwish, A., Graham, K., Bryce, J., Brown, D., Finkel, L., Froburg, E., Guertin, L., Hale, S., Johnson, J., Von Damm, K. (2007), Providing authentic research experiences for pre-service teachers through UNH's Transforming Earth System Science Education (TESSE) Program, *EOS, Trans. AGU*, 88(52), Fall Meet. Suppl., Abstract ED51A-0124.

Guertin, L.A., Ashbridge, S.E., Scholtz, L.A., 2007. *Cemeteries as sites for introductory-level Earth science research*. Abstracts with Programs (Geological Society of America), v. 39, n. 6, p. 247. Undergraduate student co-authors.

Guertin, L.A., Bodek, M.J., 2007. *Questioning the student preparation, use of and desire for geoscience podcasts*. Abstracts with Programs (Geological Society of America), v. 39, n. 6, p. 549.

Didlake, T.J., Guertin, L.A., 2006. *Comparison of modern anthropogenic and natural beach scallops in Ocean City, MD*. Abstracts with Programs (Geological Society of America), v. 38, n. 7, p. 352. Undergraduate student lead presenter.

Guertin, L.A., Furman, T., Bodek, M.J., Luck, A., 2006. *Adapting quantitative in-class exercises for online geoscience delivery*. Abstracts with Programs (Geological Society of America), v. 38, n. 7, p. 79.

Zappe, S., Guertin, L.A., Kim, H., 2006. *Just-in-Time Teaching: A web-based method of integrating classroom assessment and instruction*. American Educational Research Association.

Guertin, L.A., Zappe, S., Kim, H., 2005. *Methods of assessing Just-in-Time Teaching in introductory-level geoscience courses*. Abstracts with Programs (Geological Society of America), v. 37, n. 7, p. 119.

Guertin, L.A., 2005. *When local geology is not accessible – using the storefronts in King of Prussia Mall, PA, to teach rock identification*. Journal of the Pennsylvania Academy of Science, v. 78, Abstract and Index Issue, p. 113-114.

Huber, J., Barnes, J., Carapucci, D., Clark, A., De Lacy, C., Ermilio, G., Hagan, J., Holcomb, J., Jou, J.C., Kelly, M., Ofili, O., Tessmer, M., Wilcox, A., Zelig, S., Guertin, L.A., 2005. *An artificial Leaf Pack experiment to compare water quality and health from urban and rural stream sites through Penn State Delaware County, October 2004*. Journal of the Pennsylvania Academy of Science, v. 78, Abstract and Index Issue, p. 116. Undergraduate student presenter and co-authors.

Furman, T., Fail, C.F., Adewumi, M., Bralower, T., Guertin, L.A., 2004. *Successful geoscience pipeline activities for high school and college students*. *EOS Trans. AGU*, 85(47), Fall Meet. Suppl., Abstract ED23A-86.

Manduca, C.A., Guertin, L.A., Macdonald, R.H., Teed, B., 2004. *Starting Point: Resources for faculty teaching entry level geoscience*. Abstracts with Programs (Geological Society of America), v. 36, n. 5, p. 490.

Guertin, L.A., 2004. *Placing Palm Pilot handheld technology in the hands of introductory-level geoscience students during field experiences*. Abstracts with Programs (Geological Society of America), v. 36, n. 5, p. 157.

Guertin, L.A., 2004. *Student learning of geoscience content delivered by virtual lectures versus printed notes*. Abstracts with Programs (Geological Society of America), v. 36, n. 5, p. 520.

Guertin, L.A., Bodek, M.J., 2004. *Bringing handheld computer technology to a tombstone weathering research project for physical geology*. Abstracts with Programs (Geological Society of America Joint Northeastern/Southeastern Section), v. 36, n. 2, p. A-98.

Guertin, L.A., 2003. *Building student research experiences with the scientific method, data sets, and technology in introductory-level physical geology*. Abstracts with Programs (Geological Society of America), v. 35, n. 6, p. A-444.

Guertin, L.A., 2003. *Utilizing apparent solar transmission data from Mauna Loa Observatory (Hawaii) for an interactive classroom exercise and follow-up assignment*. Abstracts with Programs (Geological Society of America), v. 35, n. 6, p. A-121.

Guertin, L.A., Bodek, M.J., 2003. *Using the Palm™ handheld computer as a data collection tool in introductory-level geoscience research*. GeoSciEd IV, International Conference on Earth Science Education, Calgary, Canada, p. 69-70.

Guertin, L.A., 2002. *Profiles of women geoscientists on the internet: where are they, who are they written for, and is anyone looking for them?* EOS, Transactions, American Geophysical Union, v. 83, n. 47, p. F336.

Guertin, L.A., Dudkin, E.A., 2002. *Creating a community of science learners at a two-year campus*. Abstracts with Programs (Geological Society of America), v. 34, n. 6, p. A-92.

Guertin, L.A., 2002. *Teaching historical geology concepts with the National Basketball Association (NBA)'s family tree*. Abstracts with Programs (Geological Society of America Northeastern Section), v. 34, n. 1, p. A-65.

Cunningham, K.J., Locker, S.D., Hine, A.C., Barron, J.A., Bukry, D., Guertin, L.A., 2001. *Controls on the depositional balance between carbonates and siliciclastics on the southeastern Florida platform*. Abstracts with Programs (Geological Society of America), v. 33, n. 6, p. A-446.

Guertin, L.A., 2001. *A monthly newsletter as a supplemental advising tool for a large department*. Abstracts with Programs (Geological Society of America), v. 33, n. 6, p. A-240.

Guertin, L.A., 2000. *Incorporating web-based scientific news stories in introductory-level geoscience courses*. EOS, Transactions, American Geophysical Union, v. 81, n. 48, p. F293.

Guertin, L.A., 2000. *Utilization of scientific journal web sites in upper-level geoscience courses*. Abstracts with Programs (Geological Society of America), v. 32, n. 7, p. A-74.

Pitts, L.R., Guertin, L.A., 2000. *Differing coastal development schemes of Southeastern Virginia and their impacts on seasonal beach profiles and grain size distribution*. EOS, Transactions, American Geophysical Union, v. 81, n. 19, p. S87. **Award winner for Outstanding Student Presentation.**

Guertin, L.A., 2000. *From diamonds to dinosaurs: integrating the museum experience with the classroom*. EOS, Transactions, American Geophysical Union, v. 81, n. 19, p. S61.

Pitts, L.R., Guertin, L.A., 2000. *Seasonal variation and grain-size distribution relationships between profiles conducted in front of the dunes and bulkheads of developed properties, southeastern Virginia shoreline*. Abstracts with Programs (Geological Society of America Southeastern Section), v. 32, n. 2, p. A-66. Undergraduate student presenter.

McNeill, D.F., Guertin, L.A., 2000. *Themes applicable for comparative sedimentology of the subsurface carbonate-siliciclastic mixed system of South Florida to reservoir distribution in ancient deposits*. Annual Meeting Expanded Abstracts, American Association of Petroleum Geologists, vol. 2000, p. 96-97. **Invited presentation.**

Guertin, L.A., 1999. *Useful URLs for encouraging introductory-level students to choose geoscience and marine science careers*. EOS, Transactions, American Geophysical Union, v. 80, n. 46, p. F111. **Invited presentation.**

Cunningham, K.J., Reese, R.S., Sato, T., Guertin, L.A., 1999. *Depositional timing, correlations and controls on distribution of a carbonate ramp and bounding siliciclastics (Late Miocene-Pliocene), southern Florida*. The 9th Annual Southwest Florida Water Resources Conference, p. 5. **Invited presentation.**

Guertin, L.A., 1999. *Using logic problems to develop reasoning and basic quantitative skills in introductory-level geoscience courses*. Abstracts with Programs (Geological Society of America), v. 31, p. A-264.

Guertin, L.A., McNeill, D.F., Cunningham, K.J., 1999. *The importance of microfossils in sequence boundary identification: Miocene-Pliocene siliciclastic sediments of south Florida*. Abstracts with Programs (Geological Society of America, Southeastern Section), v.31, n. 3, p. A-17. **Invited presentation.**

Guertin, L.A., Missimer, T.M., McNeill, D.F., 1998. *Hiatal duration on correlative sequence boundaries in mixed carbonate/siliciclastic sediments: Oligocene-Pliocene of the south Florida platform*. Abstracts with Programs (Geological Society of America), v. 30, p. A-267.

Guertin, L.A., McNeill, D.F., Cunningham, K.J., 1998. *Multivariable controls on the timing, distribution and heterogeneity of late Cenozoic mixed carbonate/siliciclastic sediments, Florida Keys*. Annual Meeting Expanded Abstracts, American Association of Petroleum Geologists, v. 1998, p. A258.

Guertin, L.A., McNeill, D.F., Cunningham, K.J., Lidz, B.H., 1997. *Transgressive/ Regressive evidence in the late Neogene siliciclastic foundation of the Florida Keys*. Abstracts with Programs (Geological Society of America), v. 29, p. A-414.

Guertin, L.A., McNeill, D.F., Cunningham, K.J., 1996. *Geologic history of the Florida Keys: a model for carbonate-siliciclastic mixing, reef foundation, and current-controlled deposition*. Abstracts with Programs (Geological Society of America), v. 28, p. A-64.

Cunningham, K.J., Ginsburg, R.N., Warzeski, E.R., Eberli, G.P., Guertin, L.A., 1995. *Burial of a drowned Miocene carbonate platform by Pliocene siliciclastics in the Florida Keys*. Abstracts with Programs (Geological Society of America), v. 27, p. A-82.

Guertin, L.A., McNeill, D.F., Lidz, B.H., 1995. *Highstand(?) mobilization and emplacement of Neogene siliciclastic sediments, southeast Florida*. Abstracts with Programs (Geological Society of America), v. 27, p. A-333.

Guertin, L.A., 1995. *Biostratigraphic indicators for timing siliciclastic deposition, Florida Keys*. Florida Scientist, vol. 58, suppl. 1, Florida Academy of Sciences Annual Meeting, Tampa, p. 23. **Outstanding Student Paper Award, Geology & Hydrology Section.**

Presentations – academic conferences & webinars (reviewed/abstracts not published)

(*I have not included in this listing the student-focused conferences where my researchers have presented, which include the Sigma Xi (The Scientific Research Society) Research Symposium, National Conference on Undergraduate Research (NCUR), Northeast Region Honors Conference)

- *Of note: Invited panelist* for AGU-JpGU (American Geophysical Union – Japan Geophysical Union) Great Debate: Geoscience and Society (joined by Naomi Oreskes, Yoshisuke Kumano, Peter Kelemen, and moderated by Denis-Didier Rousseau). American Geophysical Union Fall Meeting Union Session U24A, San Francisco, CA (December 13, 2016)
- *Of note: Invited panelist* for AGU (American Geophysical Union) Fall Meeting Closing Plenary (moderated by AGU CEO Randy Fiser and Rapper Baba Brinkman). [virtual meeting] (December 17, 2020)
- *Of note: Invited panelist* for Plenary on The Scholarship for Learning and Teaching (joined by H. Rodriguez, K. Takayama). Lilly-East Conference on College and University Teaching, Newark, DE (April 16-18, 2008)

Guertin, L., & one additional panelist from NASA. (2023). Inclusion in Earth Science: Fostering

Diversity, Equity, and Inclusion Through Community Building and Knowledge Sharing. AGU (American Geophysical Union) Fall Meeting (international), San Francisco, CA (December 15, 2023). **Invited panelist.**

Guertin, L. (2023). Embracing a Creative Arts Identity as a Female Scientist: One Woman's Journey. Women in Science: Opportunities. American Philosophical Society (international conference). Philadelphia, PA (October 6, 2023).

Yakutchik, M., Pincus, M., Guertin, L. (2023). Tales from the Deep: Welcoming the world to scientific ocean drilling through audio conversations. National Marine Educators Association Conference. Bellingham, WA (July 25, 2023).

Guertin, L. (2023). South Atlantic Ocean cloud cover data – via quilt. Quilt as part of an art display at Science Talk '23, Association of Science Communicators. Portland, Oregon (April 6, 2023).

Kraal, E., Guertin, L., Sirrakos, G., Epstein, A. (2022). Student Produced Audio Narratives (SPAN). 2022 IUSE Summit: Propelling Change: Moving from Strategy Toward Effective & Equitable Undergraduate STEM Education. NSF/AAAS/IUSE. Washington DC. (June 1-3, 2022).

Guertin, L., Bodek, M. (2022). Turning the 2021 Earth Science Week theme of Water into a campus-wide photography competition. SENCER (Science Education for New Civic Engagements and Responsibilities) Mid-Atlantic WATER Conference, through the NCSCE (National Center for Science & Civic Engagement). Virtual. (January 15, 2022).

Guertin, L. (2022). Access and Connections through Golden Lines in Climate Solution Essays. Teaching for Equity: Making Meaningful Commitments for a More Just Future - Temple University's 20th Annual Faculty Conference on Teaching Excellence. Virtual. (January 7, 2022).

Guertin, L., Masteller, C., Crisologo, I. (2021). Skills for Science: Everyone Looks at the Figures First. AGU (American Geophysical Union) Fall Meeting (international), New Orleans, LA (December 16, 2021). **Invited panelist.**

Guertin, L., Ng, J., Jarreau, P. (2021). Skills for Science: Sharing Science in Plain English. AGU (American Geophysical Union) Fall Meeting (international), New Orleans, LA (December 14, 2021). **Invited panelist.**

Guertin, L., Jansen, A. (2021). Lessons Learned: Engaging with STEM Issues through Postcard Advocacy. Engagement Scholarship Consortium (ESC) 2021 International Conference. Virtual. (September 14, 2021).

Theveny, K., Guertin, L., Slobuski, T. (2021). A campus-community partnership for engagement in nature-themed literacy. Engagement Scholarship Consortium (ESC) 2021 International Conference. Virtual. (September 14, 2021).

Guertin, L., & 10 additional authors. (2021). Report on Unlearning Racism in Geoscience from the 2YC URGE (Unlearning Racism in Geoscience) Pod. Earth Educators' Rendezvous (July 14, 2021).

Kraal, E., Guertin, L. (2021). Evaluating the impact of student storytelling in introductory-level geoscience courses. Earth Educators' Rendezvous Virtual. (July 14, 2021).

Fioravanti, G., Guertin, L. (2021). Implementing Student-Produced Audio Narratives (SPANs) in the community college classroom. Earth Educators' Rendezvous. Virtual. (July 12, 2021).

Guertin, L. (2021). Climate change education at the front door (literally) through science art. Mid-Atlantic Climate Change Education Conference. Virtual. (June 30, 2021).

Guertin, L. (2021). Using your house front door for climate education during COVID. CUNY Conference on Climate Change Education, by City University of New York (CUNY). Virtual. (April 23, 2021).

Guertin, L. (2021). Teaching students about diverse scientists with multimedia to counter stereotypes. Midwest Conference on the Scholarship of Teaching and Learning [SoTL]. Virtual. (April 9, 2021).

Sirrakos, G., Kraal, E., Guertin, L., Epstein, A. (2021). An exploration of the impact of Student-Produced Audio Narratives in introductory geoscience courses. AAC&U Conference on General Education, Pedagogy, and Assessment [Embracing the Best Emerging Practices for Quality & Equity]. Virtual. (February 11, 2021).

Guertin, L. (2021). Broadening the science storytelling toolkit with quilts. SENCER (Science Education for New Civic Engagements and Responsibilities) Narratives in Science Conference. Virtual. (January 16, 2021).

Barber, D., Guertin, L., Theveny, K. (2021). Building a call to action for science and solutions in new virtual communities. NCSE Drawdown 2021 Conference. Virtual. (January 7, 2021). Student lead presenter.

Briseño, I., Guertin, L. (2021). Showcasing diverse voices for ocean research and solutions with ArcGIS StoryMaps. NCSE Drawdown 2021 Conference. Virtual. (January 7, 2021). Student lead presenter.

Guertin, L., Theveny, K., Barber, D. (2021). An arboretum-university educational partnership via virtual podcast discussions. NCSE Drawdown 2021 Conference. Virtual. (January 6, 2021). Student co-author.

Sirrakos, G., Simmens, G., Kraal, E., Guertin, L., Epstein, A. (2020). Student produced audio narratives: an inclusive pedagogy. Kutztown University – District Partnership Joint Conference on English Learner Education, Kutztown, PA. (abstract reviewed and accepted, conference cancelled due to COVID).

Guertin, L. (2020). It starts with students: setting a foundation with information literacy & audio. National Council for Science and the Environment (NCSE) Annual Conference. Washington, DC (January 8, 2020).

Nguyen, A., Guertin, L. (2020). Pennsylvania-themed podcasts on reversing global warming. National Council for Science and the Environment (NCSE) Annual Conference. Washington DC (January 8,

2020). Student lead presenter.

Losco, R., Guertin, L. (2019). Student produced audio narratives: an innovative approach to student engagement. e-Learning Conference 3.0. University of the Sciences, Philadelphia, PA. (May 14, 2019).

Disipio, S., Guertin, L. (2019). Measuring impacts of ice melt (calcium magnesium acetate) on water chemistry in a Penn State Brandywine stream. 30th Annual Saint Joseph's University Sigma Xi Student Research Symposium, Philadelphia, PA. April 5, 2019. Student lead presenter.

Guertin, L.A. (2019). The Next NASA Golden Record anchored in science, information, and digital literacies. AAAS Annual Meeting, Washington DC. (February 15, 2019).

Losco, R., Guertin, L. (2019). Student produced audio narratives: an innovative approach to student engagement. 2019 SoTLA Conference (Scholarship of Teaching, Learning and Assessment). West Chester University, West Chester, PA. (January 18, 2019).

Guertin, L., Theveny, K. (2018). Measuring student attitudes towards sustainable development with a one-semester Sustainovation. 2018 Association for the Advancement of Sustainability in Higher Education (AASHE) Conference and Expo, Pittsburgh, PA. (October 3, 2018).

Theveny, K., Guertin, L. (2018). Expanding the mission of a CanstructionU competition to include partnerships for hunger awareness. 2018 Association for the Advancement of Sustainability in Higher Education (AASHE) Conference and Expo, Pittsburgh, PA. (October 3, 2018).

Ballreich, I., Boger, P., Fishman, A., Guertin, L., Theveny, K. (2018). Lifting up the UN SDG's in Pennsylvania: the power of the Penn State Sustainable Communities Network. 2018 Association for the Advancement of Sustainability in Higher Education (AASHE) Conference and Expo, Pittsburgh, PA. (October 3, 2018).

Guertin, L., Clements, N. (2018). The essential role of information literacy in basic undergraduate research skills. CUR 2018 Biennial Conference, Washington, DC. (July 1, 2018).

Epstein, A., Kraal, E., Guertin, L., Sirkakos, G. (2018). Student-Produced Audio Narratives as a Pedagogical Tool. Eleventh Annual Symposium on Engineering and Liberal Education, Union College, Schenectady, NY (June 2, 2018).

Fortner, S., Guertin, L., Brown, K. (2018). Addressing critical issues in your community: examples for introductory courses. InTeGrate webinar series (all authors were presenters, February 28, 2018).

Asher, P., Guertin, L. (2017). Introducing Virtual Poster Showcase into your curricula and research programs. American Geophysical Union (AGU) webinar (June 7, 2017).

Hand, B., Guertin, L. (2017). Six Americas global warming survey as applied to a university population. American Geophysical Union Virtual Poster Showcase (December 2017). Student lead presenter.

Rosenberg, A., Guertin, L. (2017). Impact of changing temperature and air quality on the participants in

the Broad Street Run and Philadelphia Marathon, Pennsylvania. American Geophysical Union Virtual Poster Showcase (December 2017). Student lead presenter.

Schaefer, G., Guertin, L. (2017). Measurements of air and surface temperature changes in southeast Pennsylvania during the August 2017 solar eclipse. American Geophysical Union Virtual Poster Showcase (December 2017). Student lead presenter.

Bralower, T., Guertin, L. (2016). New sustainability programs and their impact at a large public state university. Earth Educators Rendezvous 2016, Madison, WI. July 21, 2016.

Guertin, L., Ambos, E., Ryan, J. (2016). Integrating discovery-based research into the undergraduate STEM curriculum: a convocation report from NAS. CUR 2016 Biennial Conference, Tampa, FL. June 27, 2016.

Hand, B., Guertin, L., Marquit, J. (2016). Penn State Brandywine tree removal eco-services impact survey. 27th Annual Saint Joseph's University Sigma Xi Student Research Symposium, Philadelphia, PA. April 15, 2016. Student lead presenter.

Smith, J., Mylonas, S.M., Guertin, L. (2015). Generating geoscience content accessible to all audiences through the Society of Exploration Geophysicists (SEG) Wiki. Presented at the 2015 American Geophysical Union Undergraduate Virtual Poster Showcase, Washington DC. Student lead presenter.

Mylonas, S.M., Smith, J., Fredricks, S.M., Guertin, L. (2015). Community building through the Society of Exploration Geophysicists (SEG) Wiki. Pennsylvania Communication Association 76th Annual Convention, York, PA. October 10, 2015. Student lead presenter.

Guertin, L. (2014). Levels of Leadership for Teachers in Educator-Based Organizations: An Example from the Pennsylvania Earth Science Teachers Association. National Science Teachers Association National Conference, Boston, MA, April 6, 2014.

Guertin, L. (2013). A Review of Careers in the Earth Sciences and Available Resources Through the Pennsylvania Earth Science Teachers Association (PAESTA). Pennsylvania Science Teachers Association Annual Conference, State College, PA, December 5, 2013.

Guertin, L. (2013) The Tyler Arboretum Experience. Pennsylvania Chapter of the American Chestnut Foundation Fall Meeting, Media, PA, November 2, 2013. **Invited presentation.**

Fresta, E., Guertin, L. (2012). Charting the Health History of Middletown Township, Pennsylvania through a Study of the Cumberland Cemetery Internment Records. Pennsylvania Historical Association, Harrisburg, PA, November 1-3, 2012. Student presenter Fresta and **Award Winner for Outstanding Student Poster.**

Guertin, L., Pollock, M. (2012). Social Media Tools for Networking, Collaborating, and Disseminating Undergraduate Research. Council on Undergraduate Research Conference - Leveraging Uncertainty: Toward a New Generation of Undergraduate Research, Ewing, NJ, June 23-26, 2012.

- Clements, A., Guertin, L. (2012). Going global: Google Earth as a tool for teaching world music. New Jersey Music Educators Association Annual Conference, East Brunswick, NJ, February 24, 2012. Co-presenter. **Invited presentation.**
- Guertin, L. (2011). Scavenger Hunts with GPS and Google Earth. Pennsylvania Science Teachers Association Annual Conference, Hershey, PA, December 1, 2011.
- Merkel, C., Guertin, L. (2011). Earth and Space Science Web-Based Resources for Pennsylvania Educators. Pennsylvania Science Teachers Association Annual Conference, Hershey, PA, December 1, 2011.
- Clements, A., Guertin, L. (2011). Teaching World Music with Geospatial Technology. Education Section Forum at the Society for Ethnomusicology Annual Conference, Philadelphia, PA, November 17, 2011.
- Mookerjee, L., Guertin, L. (2011). Teaching world music with Google Earth. International Society of Technology in Education (ISTE) Annual Conference, Philadelphia, PA, June 28, 2011. Student presenter.
- Neville, S., Guertin, L. (2011). Teaching STEM with Google Earth: Multidisciplinary Approaches to Geospatial Technology. International Society of Technology in Education (ISTE) Annual Conference, Philadelphia, PA, June 27, 2011. Student presenter.
- Dufoe, A., Guertin, L. (2011). A web-based visitor experience to the Tyler Arboretum Tree Houses with Google Earth. The 8th URC-PA (Undergraduate Research at the Capitol – Pennsylvania), Harrisburg, PA, April 26, 2011. Student presenter.
- Ballard, B., Fredricks, S., Guertin, L. (2011). An evaluation of measuring the patterns and effects of nonprofit messaging through Facebook. The 8th URC-PA (Undergraduate Research at the Capitol – Pennsylvania), Harrisburg, PA, April 26, 2011. Student presenter.
- Clements, A., Guertin, L., Yerger, T., Mookerjee, L. (2011). Going global: Google Earth as a tool for teaching world music. Pennsylvania Music Educators Association Annual Conference, Hershey, PA, April 15, 2011. All authors presenters, including student Mookerjee.
- Dufoe, A., Guertin, L. (2011). Mapping the Tyler Arboretum treehouses in Google Earth. 22nd Annual Saint Joseph's University Sigma Xi Student Research Symposium, Philadelphia, PA. April 8, 2011. Student presenter.
- Orner, L., Stephenson, Z., Guertin, L. (2011). Mapping the Green Trail at Tyler Arboretum with GPS and Google Earth. 22nd Annual Saint Joseph's University Sigma Xi Student Research Symposium, Philadelphia, PA. April 8, 2011. Student presenters.
- Guertin, L.A., Stubbs, C., Millet, C., Lee, T.K., Bodek, M.J. (2011). *Enhancing geographic and digital literacy with an "Amazing Race" and student-generated course portfolio in Google Earth.* Geological

Society of America Penrose Conference, Google Earth: Visualizing the Possibilities for Geoscience Education and Research, Mountain View, CA, January 4-8, 2011.

Guertin, L.A. (2010). *Developing digital and discipline literacies with Google Earth*. The Scholarship for Learning and Teaching, Lilly Conference on College and University Teaching, College Park, MD, June 3-5, 2010. **Invited presentation.**

Neville, S., Guertin, L. (2010). Integrating Google Earth with the QUEST for Science Literacy. The Council on Undergraduate Research's Posters on the Hill, Capitol Hill, Washington DC, April 13, 2010. Student presenter.

DiLauro, A., Guertin, L. (2010). An indoor living wall: how and why a home can have a fresh, local, sustainable supply of herbs. Northeast Regional Honors Conference (NRHC), Harrisburg, PA, April 8-11, 2010. Student presenter.

Glance, J., Guertin, L. (2010). Educational repercussions of mountaintop removal mining. Northeast Regional Honors Conference (NRHC), Harrisburg, PA, April 8-11, 2010. Student presenter.

Furman, T., Guertin, L. (2010). *Building Meaningful Partnerships to Enhance Earth System Science Literacy*. National Earth Science Teachers Association Resource Day Breakfast at the National Science Teachers Association National Conference, March 20, 2010. **Invited presentation.**

Guertin, L.A., Furman, T. (2010). *Graduate students as content experts for enhancing Earth system science curricula in the 7-12 classroom*. National Science Teachers Association National Conference, March 19, 2010.

Neville, S.E., Guertin, L.A. (2010). *Earth QUEST: Questioning and Understanding Earth Science Themes*. National Earth Science Teachers Association Geology Share-A-Thon, National Science Teachers Association National Conference, March 19, 2010. Undergraduate student presenter Neville.

Guertin, L.A., Shanahan, J.O. (2009). *The Council on Undergraduate Research: mentoring faculty who supervise undergraduate research across all disciplines and class years*. 44th Annual Conference of the National Collegiate Honors Council, Washington DC, October 31, 2009.

Guertin, L.A., Bodek, M.J. (2009). *Using an online photo-sharing tool (Flickr) for classroom multimedia projects and cross-Campus collaborations*. 39th Annual Conference of the International Society for Exploring Teaching and Learning, Philadelphia, PA, October 8, 2009.

Pedraza-Rivera, P.A., Guertin, L.A. (2009). *Tombstone gender epitaphs in Pennsylvania and Puerto Rico*. National Conference on Geography Education, San Juan, PR, September 25, 2009. Presented by undergraduate student Pedraza-Rivera.

Guertin, L.A. (2009). *Just-in-Time Teaching: a pedagogical approach that enhances learning in the complicated lives of our students*. The Scholarship for Learning and Teaching, Lilly-East Conference on College and University Teaching, University of Delaware, April 15-17, 2009. **Invited presentation.**

Showalter, A., Collins, C., Pedraza-Rivera, P., Lafauci, J., Guertin, L. (2009). Gender terms for married couples on Cumberland Cemetery tombstones. 20th Annual Saint Joseph's University Sigma Xi Student Research Symposium, Philadelphia, PA. April 17, 2009. Student presenters.

Pedraza-Rivera, P., Collins, C., Showalter, A., Lafauci, J., Guertin, L. (2009). Gender differences as perceived on Cumberland Cemetery tombstones. 20th Annual Saint Joseph's University Sigma Xi Student Research Symposium, Philadelphia, PA. April 17, 2009. Student presenters.

Lisle, R., Guertin, L. (2009). Small-scale agriculture: how it functions, how it survives. 20th Annual Saint Joseph's University Sigma Xi Student Research Symposium, Philadelphia, PA. April 17, 2009. Student presenter.

Choi, J., Guertin, L. (2009). Using the grid system to document Smithsonian dinosaur type specimens. Northeast Regional Honors Conference (NRHC), Annapolis, MD, March 29, 2009. Student presenter.

Lauser, K., Guertin, L., Goldschmidt, M. (2009). A proposal to eliminate urban hunger with community involvement and an innovative food distribution system. Northeast Regional Honors Conference (NRHC), Annapolis, MD, March 29, 2009. Student presenter Lauser.

Meyers, T., Guertin, L. (2009). Cultivating the arts at Penn State Brandywine. Northeast Regional Honors Conference (NRHC), Annapolis, MD, March 29, 2009. Student presenter.

Robb, E., Liskowycz, M., Jones, L., Arena, R., Guertin, L. (2009). Capturing the sun through advanced technology. The URC-PA (Undergraduate Research at the Capitol – Pennsylvania), Harrisburg, PA, March 24, 2009. Student presenter Jones.

Meyers, T., DiLauro, A., Guertin, L. (2009). Smithsonian “classic” dinosaur type specimens. The URC-PA (Undergraduate Research at the Capitol – Pennsylvania), Harrisburg, PA, March 24, 2009. Student presenter Meyers.

Guertin, L.A. (2008). *Getting introductory-level students hands-on with multimedia technology for research-based community projects*. 12th National Conference of the Council on Undergraduate Research, College of Saint Benedict, June 21-24, 2008.

Meyers, T., DiLauro, A., Guertin, L. (2008). Smithsonian “classic” dinosaur type specimens. 19th Annual Saint Joseph's University Sigma Xi Student Research Symposium, Philadelphia, PA, April 18, 2008. Student presenters.

Guertin, L.A. (2008). *An intercollege minor on civic and community engagement*. Panelist for “Spotlight on Scholarship: Jeremy Cohen,” Eastern Communication Association annual conference, May 2, 2008.

Scholtz, L., Guertin, L. (2007). Cemetery demography of Centralia, Pennsylvania. 18th Annual Saint Joseph's University Sigma Xi Student Research Symposium, Philadelphia, PA, April 20, 2007. Student presenter.

Robb, E., Liskowycz, M., Jones, L., Arena, R., Guertin, L. (2007). Solar Decathlon 2007: capturing the sun through advanced technology. 22nd National Conference on Undergraduate Research (NCUR), Salisbury, MD, April 10-12, 2008. Student presenters.

Woodruff, J., Acuna, E., Silano, R., Guertin, L. (2008). Enhanced podcast of Pennsylvania biodiversity in the Ridley Creek State Park. 22nd National Conference on Undergraduate Research (NCUR), Salisbury, MD, April 10-12, 2008. Student presenters.

Guertin, L.A. (2006). *A comparison of Just-in-Time Teaching across disciplines and course levels*. Third Annual Conference of the International Society for the Scholarship of Teaching and Learning, Washington, DC, November 10, 2006. (co-authors include C. Cookman, S. Zappe, H. Kim)

Guertin, L.A. (2006). *Civic engagement in geoscience courses*. 11th National Conference of the Council on Undergraduate Research, DePauw University, June 25, 2006.

Tessmer, M., Hagan, J., Guertin, L.A. (2005). *International collaboration on Leaf Pack research through technology*. National Educational Computing Conference (NECC), Philadelphia, June 30, 2005. Presented by undergraduate student co-authors M. Tessmer and J. Hagan.

Guertin, L.A. (2005). *Data-collection forms on PDAs for student field and laboratory exercises*. National Educational Computing Conference (NECC), Philadelphia, June 29, 2005.

Guertin, L.A. (2004). *Bringing science activities to the Junior Girl Scouts through non-science major undergraduate involvement in the classroom and as independent study projects*. National Outreach Scholarship 2004 Conference, Penn State University – University Park campus, October 4, 2004.

Guertin, L.A. (2004). *Collaborative student research involving handheld computers*. 10th National Conference of the Council on Undergraduate Research, Univ. of Wisconsin – LaCrosse, June 2004.

Guertin, L.A., Consorto, A.C. (2004). *Developing virtual activities for the Junior Girl Scout “Water Wonders” badge*. 10th National Conference of the Council on Undergraduate Research, Univ. of Wisconsin – LaCrosse, June 2004. Undergraduate student co-author.

Guertin, L.A., Dudkin, E.A., Van Leuvan, P.A. (2003). *Implementing science career awareness activities for students*. National Science Teachers Association National Convention, Philadelphia, March 2003.

Guertin, L.A., Ermilio, G.M., Barmby, J.S. (2002). *Uncharacteristic relative seasonal variations in beach profiles, Cape Henlopen State Park, Delaware*. 9th National Conference of the Council on Undergraduate Research, Connecticut College, June 2002. Undergraduate student co-authors.

Presentations – at Penn State University

Presentations at The Pennsylvania State University, University Park

Guertin, L., Hoffman, M., Lockaby, M., Waters, J. (2024). *Charting the Course: Virtual Tours in Place-Based Education*. Penn State Teaching and Learning with Technology Symposium, University Park, March 23, 2024.

Guertin, L., *A Journey Through Educational Technology*. Penn State Eberly College of Science (ECOS) Office of Digital Learning (ODL) Digital Innovation Group (DIG), November 16, 2023. **Invited speaker.**

Guertin, L., *A Creative Approach to Science Storytelling With Quilts*. Lattman Lecture/Dept. of Geosciences/College of Earth & Mineral Sciences, November 9, 2023. **Invited speaker.**

Guertin, L., *Surveying Walleye Pollock*. Penn State Extension – Water Cooler Talk, Zoom, August 30, 2023. **Invited speaker.**

Guertin, L., *Data-Informed Pedagogy: Inclusive Learning from End-of-Semester Surveys*. Data-Informed Pedagogy Faculty Community, Penn State Teaching and Learning with Technology, Zoom, December 2, 2022.

Driver, J., Davis, S., Guertin, L., Sharma, R., Shook, J. *Data, Data, Everywhere. Do You Use It or Leave It There?* Penn State Teaching and Learning with Technology Symposium, University Park/Zoom, March 19, 2022. **Invited panelist.**

Guertin, L., *Data-Informed Pedagogy with Kaltura Analytics*. Data-Informed Pedagogy Faculty Community/Mid-Semester Data Collection event, Penn State Teaching and Learning with Technology, Zoom, October 8, 2021.

Guertin, L., *Exploring Data-Informed Pedagogy*. Data-Informed Pedagogy Faculty Community, Penn State Teaching and Learning with Technology, Zoom, August 10, 2021.

Guertin, L. *Countering Stereotypes About Scientists: Students Share Preferred Technology for Learning*. The Pennsylvania State University's Learning Design Summer Camp, Zoom, July 20, 2020.

Nguyen, A., Guertin, L. *Producing Pennsylvania-themed podcasts for Project Drawdown*. Research Experiences for Undergraduates (REU) Symposium, University Park, PA, July 30, 2019. **Student presenter and award winner.**

Guertin, L, Foster, D., Beckman, M. *Active Learning Strategies Faculty Panel*. The Pennsylvania State University Teaching and Learning with Technology (TLT), University Park, PA/Zoom, October 9, 2018. Faculty panel.

Bodek, M., Guertin, L. *Adobe Creative Cloud @ Brandywine*. The Pennsylvania State University's Learning Design Summer Camp, University Park, PA, July 17, 2018. Co-presenters.

Clements, N., Guertin, L. *At Sea with Zotero*. The Pennsylvania State University's Symposium for Teaching and Learning with Technology, University Park, PA, March 21, 2015. Co-presenters.

Guertin, L., Dufoe, A., Bodek, M. *The iPad as a data collection tool for fieldwork and dissemination of student-created content with iBooks Author*. The Pennsylvania State University's Symposium for Teaching and Learning with Technology, University Park, PA, March 16, 2013. Co-presenters Guertin and Dufoe (undergraduate student).

Guertin, L.A., *Amazing Race to geographic literacy*. Penn State ITS Training Services – Educational Gaming Brownbag, The Pennsylvania State University, January 25, 2012.

Guertin, L.A., Stubbs, C., Millet, C., Lee, T.K., *Enhancing geographic and digital literacy with a student-generated course portfolio and “Amazing Race” in Google Earth*. Penn State Symposium for Teaching and Learning with Technology, The Pennsylvania State University, March 26, 2011.

Guertin, L.A., Hennig, D.E., *Using Google Earth to facilitate student learning in multiple disciplines*. Penn State Symposium for Teaching and Learning with Technology, The Pennsylvania State University, March 27, 2010. Undergraduate student co-presenter.

Guertin, L.A., Spizzirri, P.R., *Utilization of Digital Commons technology for outreach and education*. Penn State Symposium for Teaching and Learning with Technology, The Pennsylvania State University, March 29, 2008. Undergraduate student co-presenter.

Guertin, L.A., *Preparing sophomores to engage in public scholarship*. Sophomore Year: Critical Turning Points for Students and Their Academic Advisers, Sixth Annual Professional Development Conference on Academic Advising, The Pennsylvania State University, October 4-5, 2007.

Guertin, L.A., *The impact of service learning*. Faculty contributions to student recruitment and retention. Best practices and examples from the field. Pennsylvania State University, February 3, 2006.

Guertin, L.A., Rzasas, S.E., Kim, H., *Effects of Just-in-Time Teaching on Student learning*. Colloquy XI – Making Connections: Educators Communicating Across Differences, Penn State University – University Park campus, May 11, 2005.

Guertin, L.A., *Using ANGEL to support Just-in-Time Teaching*. Innovate with ANGEL (virtual seminar), Penn State University, April 28, 2005.

Guertin, L.A., *Using virtual lectures for geoscience e-instruction*. Dutton e-Education Institute e-Education seminar, Penn State University, April 12, 2005.

Guertin, L.A., *Innovative uses of Palm Pilots in introductory-level geoscience courses*. Department of Geosciences Colloquium, Penn State University – University Park campus, October 5, 2004.

Presentations at Penn State Brandywine

Tyson, W., Guertin, L., *Publicize your work!* Scholarly & Research Communications Committee Brown Bag Session, Penn State Brandywine, February 27, 2024.

Guertin, L., *Course-Based Undergraduate Research (CURE). Welcome Week Fall 2023 – Best Ideas for the Classroom*. Penn State Brandywine, August 15, 2023.

Guertin, L., Hartle, L., Murphy, A., DelViscio, R., *Women's History Month panel – challenges and accomplishments of being a woman in STEM*. Penn State Brandywine, March 1, 2023.

Guertin, L., *Academic Achievement Celebration Fall 2022*. Invited keynote speaker. Penn State Brandywine, October 6, 2022.

Guertin, L., *A sea change for oceanographic research - impacts in 2020 and beyond*. Faculty Forum, Penn State Brandywine, October 22, 2021.

Signorella, M., Guertin, L., Yatauro, M., *Promotion and Tenure Workshop*. Penn State Brandywine, May 2020 & May 2021.

Presenter on careers in oceanography and Earth science at one-day STEM Options/Math Options programs for 7th grade and 9th grade girls (2002-2006, 2008-2009, 2016-2019)

Mendez-Gallardo, V., Dudkin, E., Guertin, L. *Voices of Women in STEM: Women's History Month*. Faculty Forum, Penn State Brandywine, March 28, 2018.

Guertin, L. *Trees (not Trash) for Earth*. Campus Lecture Series and Campus Common Read joint event for Earth Day, Penn State Brandywine, April 12, 2016.

Guertin, L. *At Sea with Zotero*. Faculty Forum, Penn State Brandywine, October 5, 2015.

Hartle, L., Guertin, L. *Engaged Scholarship*. Faculty Forum, Penn State Brandywine, March 18, 2015.

Guertin, L., Gallagher, J. *Civic engagement*. Faculty Forum, Penn State Brandywine, October 3, 2012.

Guertin, L.A., *Podcasting in the Penn State Brandywine Classroom*. Technology Day Spring 2010, Penn State Brandywine, May 13, 2010.

Guertin, L.A., lead presenter with panelists P. Cole, I. Esparragoza, J. Tierney, *Panel on undergraduate involvement in research*. Faculty Forum, Penn State Brandywine, December 2, 2008.

Guertin, L.A., *Helpful tips for student multimedia projects in the Digital Commons*. Technology Day 2008, Penn State Brandywine, January 10, 2008.

Guertin, L.A., *Using audio recordings and iTunesU at Penn State*. Technology Day 2007, Penn State Brandywine, May 14, 2007.

Guertin, L.A., *What I wish I knew before I taught online for the first time*. Technology Day 2006, Penn State Brandywine, May 8, 2006.

Guertin, L.A., *Geology and Environment of Rwanda*. The Bone Woman seminar, Penn State Brandywine, October 3, 2005.

Guertin, L.A., *TSUNAMI 101: The truth about tsunamis*. Campus-wide seminar. Penn State Delaware County, January 13, 2005.

Guertin, L.A., *Just-in-Time Teaching: Web-based responses with follow-up peer discussion*. Faculty Forum, Penn State Delaware County, December 2, 2004.

Guertin, L.A., *Virtual lectures with Microsoft Producer*. Technology Day 2004, Penn State Delaware County, June 4, 2004.

Guertin, L.A., *Margi demonstration*. Technology Day 2003, Penn State Delaware County, June 2003.

Presentations – prior to coming to Penn State

Guertin, L.A., *Establishing a discipline-specific career resource center*. CO/WY Advising Conference, Colorado State University, February 2001.

Guertin, L.A., *Classroom utilization of interactive features and online-exclusive stories from the web sites of popular and scientific publications*. Faculty Academy 2000, Regional Conference on Education and Technology, Mary Washington College, May 2000.

Guertin, L.A., *The elusive Miocene-Pliocene sequence boundary in south Florida's siliciclastic sediments*. Invited Speaker, College of William & Mary, Department of Geology Seminar Series, September 1999.

Guertin, L.A., *Poster projects: igniting intro-level student interest in research*. VCEPT (Virginia Collaborative for Excellence in the Preparation of Teachers) Summer Mathematics and Sciences Colloquium, Mary Washington College, July 1999.

Guertin, L.A., *Chronostratigraphy and its importance in developing a model for carbonate and siliciclastic mixing: an example from southernmost Florida*. SEPM Carbonate Research Group Meeting "Recent Advances in the Sequence Stratigraphy of Mixed Carbonate-Siliciclastic Systems," AAPG Annual Meeting, Salt Lake City, May 1998.

Guertin, L.A., McNeill, D.F., Cunningham, K.J. *Recognition and comparison of the Miocene/Pliocene sequence boundary in cores from a carbonate (Bahamas) versus siliciclastic (south Florida) environment*. Annual Meeting of the Industrial Associates of the Comparative Sedimentology Laboratory, Univ. of Miami. November 1997.

Guertin, L.A., *The Oligocene-to-Pleistocene geologic history of the Florida Keys*. Invited Speaker, Miami Geological Society, November 1997.

Guertin, L.A., McNeill, D.F., Cunningham, K.J. *Chronology of the mixed carbonate/ siliciclastic system, southern Florida - toward event correlation and external controls*. Annual Meeting of the Industrial Associates of the Comparative Sedimentology Laboratory, Univ. of Miami. October 1996.

Guertin, L.A., McNeill, D.F. *Highstand(?) mobilization and emplacement of siliciclastic sediments: initial chronostratigraphic results from the Florida Keys Drilling Project*. Annual Meeting of the Industrial Associates of the Comparative Sedimentology Laboratory, Univ. of Miami. June 1995.

Presentations – local community/national gatherings, academic institutions

- *Of note*: Selected speaker on "Stitching Through Science Communication – With Quilts" for Ignite@AGU, sponsored by NASA [virtual] (December 2, 2020)
- *Of note*: Invited speaker on coastal optimism for The Story Collider/Disaster Response Event, organized by The Story Collider with the Gulf of Mexico Research Initiative (GoMRI), San Francisco, CA (December 12, 2019)
- *Of note*: Invited speaker for March for Science/Rally for Science, Philadelphia, PA (April 14, 2018)
- *Of note*: Invited to present with Rear Admiral DeBow in *The search for Captain America began with surveying the ocean!* for the Experts Are In, Smithsonian National Museum of Natural History (Q?Rius) program, Washington, DC (June 17, 2015)

Academic venues

Guertin, L. *A roadmap for starting and sustaining earth science outreach*. Earth & Environmental Science Seminar Series, Temple University, Philadelphia, PA, March 22, 2024. **Invited presentation.**

Guertin, L. *Quilting climate science & solutions*. Chesapeake Bay Maritime Museum (talk plus 12 quilts on display), St. Michaels, MD, January 4, 2024. **Invited presentation.**

Guertin and additional science experts, *Science Matters: Conversation Lab for Wondrous Space*. The Franklin Institute, Philadelphia, PA, November 15, 2023. **Invited.**

Guertin, L., *Visualizing sky color and cloud cover observations during ocean expeditions*. Start Talking Science, Science History Institute, Philadelphia, PA, November 3, 2023.

Shabram, P. (moderator), Krause, C., Guertin, L., Rothenberg, T. *Advancing research in undergraduate education at primarily teaching institutions*. American Association of Geographers (AAG) Professional Development Webinar [virtual panel]. (August 31, 2023). **Invited panelist.**

Guertin, L., Johnson, B., Kraft, K. *Two-year colleges and unlearning racism in the geosciences (URGE)*. Inspiring Innovation: 2YC Geoscience Faculty as Change Agents (National Association of Geoscience Teachers) [virtual workshop]. (April 21, 2023).

Berquist, P., Guertin, L., Cole-Wills, M. *Undergraduate research at community colleges*. Inspiring Innovation: 2YC Geoscience Faculty as Change Agents (National Association of Geoscience Teachers) [virtual workshop]. (April 14, 2023).

Guertin, L. *Core on shore! A virtual tour of IODP's Gulf Coast Repository*. National Association of Geoscience Teachers – On the Cutting Edge Webinar Series [virtual]. (November 11, 2022). Given from the Gulf Coast Repository in Texas.

Guertin, L. *Core on shore! A virtual tour of IODP's Gulf Coast Repository*. Oklahoma State University – Colloquium Series [virtual] (November 10, 2022). **Invited presentation**, given from the Gulf Coast Repository in Texas.

Guertin, L., and the South Atlantic Transect IODP Expedition 390 & 393 Scientists, *The connection between deep-sea scientific ocean drilling and life in ocean systems of other planets*. Start Talking Science, Science History Institute, Philadelphia, PA, September 22, 2022.

Guertin, L. *Interview with an Explorer – Life @ Sea, the JOIDES Resolution*. Women's Aquatic Network Webinar Series [virtual]. (May 12, 2022). **Invited presentation**, given from the ship *JOIDES Resolution*.

Guertin, L. *Visiting Legacy Collection Sites at the Mid-Atlantic Ridge*. Delaware County Institute of Science Lecture Series [virtual]. (May 9, 2022). **Invited presentation**, given from the ship *JOIDES Resolution*.

Guertin, L. *Sharing Scientific Ocean Drilling with Students*. National Association of Geoscience Teachers – On the Cutting Edge Webinar Series [virtual]. (May 6, 2022). **Invited presentation**, given from the ship *JOIDES Resolution*.

Guertin, L., *Is there a limit to coastal optimism? The story of Louisiana's Pointe-au-Chien Indian Tribe*. TEDxPSUBrandywine (TED Countdown climate solutions event). Penn State Brandywine, Media, PA, November 17, 2021.

Guertin, L., Speaker and panelist for Minnesota State University's Faculty certificate program on course-based undergraduate research experiences (CUREs). My presentation title: *Discovery-based research in the first two years: equity, access, and inclusion for all students* [virtual]. October 18, 2021. **Invited presenter.**

Guertin, L., *Studying the Ocean, From the Ocean*. STEAM Exploration Works, hosted by the American Helicopter Museum & Education Center, West Chester, PA, October 9, 2021. **Invited presentation.**

Guertin, L., Wilkening, B. *Quilt Your Science - Introducing participatory textiles project*. Summer Solstice Polar SciArt Soirée. Polar Educators International. [virtual]. June 20, 2021. **Invited presentation.**

Guertin, L., and three additional panelists. Media NAACP Youth Council College Week: Educator Discussion Panel. [virtual]. February 24, 2021.

Guertin, L., and two additional panelists. *Careers in STEM by Women in STEM*. Virtual panel hosted by the American Helicopter Museum & Education Center (Girls in Science & Technology Program (GIST)), West Chester, PA, November 21, 2020.

Guertin, L., *Careers in oceanography and what everyone should know about the ocean*. American Helicopter Museum & Education Center (Girls in Science & Technology Program (GIST)), West Chester, PA, November 2, 2019.

Guertin, L., Berkey, J., Jansen, A. *Going beyond the "doom and gloom" with students writing & recording coastal optimism rally speeches*. Start Talking Science, Science History Institute, Philadelphia, PA, September 26, 2019.

Guertin, L., *Telling science stories with quilts*. Saturday Speaker Series, Science History Institute, Philadelphia, PA, September 14, 2019.

Guertin, L., *Stitching Hope for the Coast: Communicating coastal optimism for Louisiana*. Start Talking Science, Science History Institute, Philadelphia, PA, September 27, 2018.

Guertin, L., *Visualizing Philadelphia's temperature history through crochet*. Start Talking Science, Chemical Heritage Foundation, Philadelphia, PA, September 28, 2017.

Guertin, L., *Tyler Arboretum's geologic history*. Tyler Arboretum's Public Programs on Nature Studies, Media, PA, January 20, 2016.

Guertin, L., *Being an oceanographer out to sea*. TechniGals CreateSpace STEM Summer Camp (for middle school girls), Middletown Free Library, Media, PA, August 6, 2015.

Guertin, L., *Aboard the NOAA ship Thomas Jefferson for a Hydrographic Survey of Eastern Long Island Sound*. Delaware County Institute of Science lecture series, Media, PA, February 9, 2015.

Guertin, L., *What everyone should know about the oceans (and how we know what we know!)*. The Agnes Irwin School, Rosemont, PA, January 7, 2015.

Guertin, L., *Philadelphia's Dinosaur History*. Delaware County Institute of Science lecture series, Media, PA, March 14, 2011.

Guertin, L.A. The Art Institute of Philadelphia, keynote speaker for faculty development workshop, "Social Media and its Integration into Higher Education Courses - A Good Fit?" September 21, 2009. **Invited presentation.**

Guertin, L.A. York College (CUNY) - Center for Excellence Teaching and Learning Series, "Just-in-Time Teaching: Using Web-based Questions to Enhance Learning," February 19, 2009. **Invited presentation.**

Guertin, L.A., *The history and mystery of the underground mine fires in Centralia, Pennsylvania*. Delaware County Institute of Science lecture series, November 10, 2008.

Guertin, L.A., *Focus on faculty roles in higher education*. University of Delaware's UNIV 606 graduate seminar, June 29, 2006.

Guertin, L.A., *Lecture podcasts: a pedagogical tool or tech-trend?* Lunch and Learn with Technology, Villanova University, April 27, 2006. **Invited presentation.**

Guertin, L.A., *Ask questions and share with others.* 24th Annual Academic Awards Ceremony, Plymouth Whitmarsh High School, April 19, 2006.

Guertin, L.A., *Do students utilize or even want lecture podcasts?* Philadelphia Area Educational Technology Conference, Haverford College, February 22, 2006.

Guertin, L.A., *California's earthquakes for the past 100 years, and predictions for the next 100 years.* Delaware County Institute of Science lecture series, February 20, 2006.

Guertin, L.A., *Focus on faculty roles in higher education.* University of Delaware's UNIV 606 graduate seminar, June 21, 2005.

Guertin, L.A., *Tombstone weathering and human demography at Cumberland Cemetery, Lima, PA.* Delaware County Institute of Science lecture series, January 10, 2005.

Non-academic venues (all invited engagements)

Guertin, L. *What's waiting for us at the bottom of the ocean?* The Right Angle Club, at The Philadelphia Club, Philadelphia, Pennsylvania. December 1, 2023.

Guertin, L. *Quilting science stories of land and sea.* The Garden Club of Springfield, Pennsylvania, September 27, 2023.

Guertin, L. *Quilting climate science and solutions.* Delaware County Master Gardeners, Penn State University, February 21, 2023.

Guertin, L. *Textile Talk* (The Quilt Alliance webinar, online), December 14, 2022. I shared a pre-recorded presentation and was in Zoom for a live Q&A.

Guertin, L. *Gallery walk of Stitching Climate Science and Solutions.* Jenkins Arboretum & Gardens, December 2, 2022. One-hour session on science communication and Project Drawdown solutions for high school students.

Guertin, L. *Learn to Crochet/Knit Science Data.* Jenkins Arboretum & Gardens, October 29, 2022. Lecture and hands-on workshop.

Guertin, L. *Oceanography – through quilting!* #GlobalScienceShow via Twitter (online), February 12, 2021.

Guertin, L. *#SciArt Spotlight.* Taste of Science Instagram Live session (online), May 4, 2020.

Guertin, L., *Weather, climate, and crocheting.* Upper Darby Landsdowne Rotary Club (online), May 13, 2020.

Guertin, L., *Did dinosaurs ever roam through Tyler Arboretum?* Tyler on Tap, Media, PA, August 9, 2019.

Guertin, L., *Hydrographic surveying for Captain America on the ocean floor.* Taste of Science Philadelphia, PA, April 24, 2018.

Guertin, L., *Hurricane 101.* The Penn State Club of Maris Grove, Glen Mills, PA, November 21, 2017.

Guertin, L., *The Search for Captain America Began with Surveying the Ocean Floor!* Nerd Nite Philadelphia, PA, April 6, 2016.

Guertin, L., *Aboard the NOAA Ship Thomas Jefferson for a Hydrographic Survey of Eastern Long Island Sound.* The Penn State Club of Maris Grove, Glen Mills, PA, July 21, 2015.

Guertin, L., *Collecting data for nautical charts: a hydrographic survey on the NOAA Ship Thomas Jefferson.* White Horse Village Cultural Encounters Lecture Series, Newtown Square, PA, October 16, 2014.

Guertin, L., *A tour of the College of Earth and Mineral Sciences.* The Penn State Club of Maris Grove, Glen Mills, PA, March 18, 2014.

Guertin, L., *How volcanoes make our lives exciting – even on the East coast.* Nerd Nite Philadelphia, PA, March 12, 2014.

Guertin, L., *Leadership and civic engagement.* Delaware County Youth Leadership Academy, Penn State Brandywine, May 9-11, 2011.

Guertin, L.A., *A geohistory tour of America's mountain carvings.* White Horse Village Cultural Encounters Lecture Series, March 4, 2010.

Guertin, L.A., *The people of Centralia, PA: Then and Now.* Granite Farms Estates Lecture Series, April 22, 2009.

Guertin, L.A., *Cloning dinosaurs and woolly mammoths: the truth about Jurassic and Pleistocene Parks.* White Horse Village Cultural Encounters Lecture Series, January 21, 2009.

Guertin, L.A., *Volcanoes and climate change: how one eruption can change the world.* White Horse Village Cultural Encounters Lecture Series, January 9, 2008.

Guertin, L.A., *A geohistory tour of America's mountain carvings.* Hershey's Mills Lecture Series, April 19, 2007.

Guertin, L.A., *The state of the environment and its implications for us.* Media Presbyterian Church – Social Issues Forum, April 18, 2007.

Guertin, L.A., *Dinosaurs and the Philadelphia Connection*. Granite Farms Estates Lecture Series, February 21, 2007.

Guertin, L.A., *The U.S. Navy's Marine Mammal Program*. White Horse Village Cultural Encounters Lecture Series, February 1, 2007.

Guertin, L.A., *A geohistory of America's mountain carvings*. 707 Forum of Nether Providence, Media, PA, November 7, 2006.

Guertin, L.A., *Earthquakes from 1906 to today*. White Horse Village Cultural Encounters Lecture Series, January 19, 2006.

Guertin, L.A., *The Great 1906 San Francisco Earthquake*. Hershey's Mill lecture series, November 3, 2005.

Guertin, L.A., *Community historical data from tombstones and records at Cumberland Cemetery, Lima, PA*. Aston Township Historical Society, February 10, 2005.

Guertin, L.A., *The greatest tsunami disasters through time*. White Horse Village Cultural Encounters Lecture Series, January 20, 2005.

Guertin, L.A., *Dinosaurs and the Philadelphia Connection*. White Horse Village Cultural Encounters Lecture Series, January 6, 2005.

Guertin, L.A., *The destructive path of hurricanes*. White Horse Village Cultural Encounters Lecture Series, October 2, 2003.

Guertin, L.A., *U.S. Navy Marine Mammal Program*. Delaware County Juvenile Detention Facility, May 6, 2003.

Guertin, L., Career Day participant: Delaware County Juvenile Detention Center (March 31, 2004; November 6, 2003).

Impact in Society/Media Mentions/Science Communication Activities

Audio/podcast features

- Interviewed for AGU's *Third Pod from the Sun*, "Distillations: Quilting science & changing climates" (published December 15, 2022)
- Interviewed for *Leading Lines* Podcast (a podcast on educational technology), "Episode 115: Laura Guertin" on how her use of technology has evolved over the last 20 years. Listeners will hear examples of how technology has enabled Laura to teach even while aboard a ship doing field work and has enabled her students to learn while commuting. (published December 5, 2022)
- Interviewed for *Women in Environmental Engineering & Science* Podcast, "Episode 23: Dr. Laura Guertin talks about education, earth science, and quilting" (published May 16, 2022)

- Featured on AAC&U's *The Academic Minute* radio program, "Laura Guertin, Penn State University Brandywine – Science and Communication" (March 18, 2021)
- Interviewed for *LabOratory* Podcast, "Episode 10: Ocean Sciences 2020, Part 1", for my conference presentation on quilting science stories (published April 18, 2020)

Media mentions/interviews (outside of Penn State University)

- Profiled in AWIS Magazine (Association for Women in Science), "Teaching Science Through Quilting: A Conversation with Earth Scientist Laura Guertin" (Volume 55, Winter 2024 issue, p. 32-38)
- One of my quilts was accepted for a juried art exhibit, *The Changing Chesapeake*, at the Chesapeake Bay Maritime Museum. The following are articles where I am mentioned and/or quoted for my quilt, *Looking Out at the Ghosts of the Coast*.
 - Chesapeake Bay Maritime Museum Summer Preview by Steve Parks – *The Talbot Spy* (May 19, 2023)
 - Museum Opens "Changing Chesapeake" Exhibit Using Community-Curated Art – *Chesapeake Bay Magazine* (March 13, 2023)
 - CBMM Takes on a Changing Chesapeake – *The Talbot Spy* (March 13, 2023)
 - CBMM opens 'Changing Chesapeake' exhibit – *The Democrat Star* (March 5, 2023), *Dorchester Star* (March 10, 2023)
 - 'The Changing Chesapeake' set to open at CBMM on March 1" – *Bay To Bay News* (January 22, 2023); *Star Democrat* (February 5, 2023), *The Chestertown Spy* (March 1, 2023)
- The Penn State Brandywine seismometer and World Series
 - No, the Phillies crowd was not loud enough to register on a Penn State earthquake detector (*The Philadelphia Inquirer*, article published November 2, 2022)
 - No, Phillies fans did not create seismic activity at Citizens Bank Park (KYW Newsradio, article published November 2, 2022)
 - No, Phillies Crowd Noise Didn't Register As An Earthquake (NBC 10 Philadelphia, article)
 - Phillies' home runs did not register on seismograph | VERIFY (Fox 43 Harrisburg/York, Zoom interview part of on-air story November 2, 2022)
 - Phillies fans didn't create an earthquake during Game 3 at Citizens Bank Park (ABC 6 Philadelphia, on-campus interview part of on-air story November 2, 2022)
 - Phillies fans' cheers did not register on seismograph during Game 3 (Associated Press, article, published November 3, 2022)
 - No, Phillies fans at Citizens Bank Park did not trigger seismic activity (PolitiFact, article, published November 3, 2022)
 - Sorry, Phillies Fans, No Earthquake from Harper/Bryce Homeruns (BUCKSCO.TODAY, article, published November 3, 2022)
 - Sorry, Phillies Fans: No Earthquake from Harper/Bohm Home Runs Tuesday Night (MONTCO.TODAY, article, published November 4, 2022)
 - Phillies fans' cheers did not register on seismograph during Game 3 (The Berkshire Eagle, article, published November 4, 2022)
 - Did Phillies fans cheer so loud they shook the earth? (Penn Live/Patriot-News, article, published November 4, 2022)
- Interviewed for article "Meet the Western Soil Scientists Using Dirt to Make Stunning Paints", *Smithsonian Magazine* (January 26, 2021)

- Interviewed for article “Knitters Chronicle Climate Change One Stitch at a Time”, *The New York Times* (February 22, 2020)
- Interviewed for article “Crafting takes a dark turn in the age of climate crisis”, from *Fast Company* (January 11, 2019)
- Quoted in article “The scary and promising future of a digital world. Here’s what the experts predict”, from *Deseret News* (April 25, 2018)
- Quoted in article “The expanded edition: the future of well-being in a tech-saturated world”, *Pew Research Center* (April 17, 2018)
- Media mention in “Science Art Collaborations Emerge at American Geophysical Union Meeting”, from *SciArt Magazine*, volume 29 (February 2018)
- Interviewed for article “Penn State Brandywine tracks quake in Mexico”, from *The Delaware County Daily Times* (September 8, 2017)
- Interviewed for article “Gearing up for fall semester”, from *EOS – American Geophysical Union* (August 14, 2017) <https://eos.org/features/gearing-up-for-fall-semester>
- Interviewed by *CBS Evening News* about the March for Science (April 18, 2017)
- Interviewed for article “Report stresses the need for real research in undergraduate classes”, from *EOS – American Geophysical Union* (February 3, 2016) <https://eos.org/articles/report-stresses-need-for-real-research-in-undergraduate-classes>
- Media mention in “State of the Net: Content is King”, from *The Leading Edge* (Society of Exploration Geophysicists) (November 2015)
- Interviewed for SEG Wiki Chat – Geoscience education and educational technology (June 30, 2015)
- Interviewed for article “Google+ in the Classroom, One Year Later,” *The Chronicle of Higher Education – Wired Campus article* (August 8, 2012) <http://chronicle.com/blogs/wiredcampus/google-in-the-classroom-one-year-later>
- Interviewed for article “Cemetery Science: Gravestones Record Acid Rain Effect,” *LiveScience* article from February 27, 2012. <http://www.livescience.com/18681-cemetery-gravestones-weathering-acid-rain.html>
- Media mention of my presentation on using Flickr as a collaborative tool for Earth Science Week was featured in the article “Using Web 2.0 to Engage and Recruit the Future Geoscience Workforce,” in Recruitment Special, the annual magazine by the European Association of Geoscientists and Engineers (EAGE) about recruitment issues in the oil & gas industry. <http://issuu.com/amanda75/docs/recruitmentspecial2010>
- My journal article on podcasting was featured in Tomorrow’s Professor email newsletter, from the Stanford Center for Teaching and Learning (message #1026, May 21, 2010)
- My research in Just-in-Time Teaching was the focus of an article in *Hispanic Outlook in Higher Education*, 11/02/2009, titled “Just-in-Time Teaching” – Another Strategy for Engaging Students, p. 24-25.
- My research was the focus of an article in the October 1998 issue of *AAPG Explorer* titled “Florida Study Shows Mixed Systems - Swamp, Keys Yield Sediment Clues”

Online profiles

- Penn State University profiles include:
 - PSU Institutes of Energy and the Environment – Honoring Women in STEM: Laura Guertin (April 2022)

- PSU Sustainability Institute – SDG Snapshots / Dr. Laura Guertin, Distinguished Professor of Earth Sciences (November 2022)
- One of four scientists profiled by PLOS – Women in STEM: Stories of Resilience, Spirit and Success (April 2021), <https://yoursay.plos.org/2021/04/01/women-in-stem-stories-of-resilience-spirit-and-success-2/>
- Profiled by the American Geophysical Union - An Oceanographer’s Journey: Meet Dr. Laura Guertin, Professor of Earth Science (February 2019), <https://blogs.agu.org/onthejob/2019/02/07/an-oceanographers-journey-meet-dr-laura-guertin-professor-of-earth-science/>
- Profiled by Leading Women in Marine Science Interview Series, Professor Laura Guertin (August 2018), <https://leadingwomeninmarinescience.wordpress.com/2018/08/10/professor-laura-guertin-leading-women-in-marine-science/>
- Profiled by Rock-Head Sciences, Earth Science Professor, Dr. Laura Guertin @guertin: A Day in the GeoLife Series (February 2018), <http://rockheadsciences.com/guertin-earth-science/>
- Profiled by the March for Science Philadelphia, “Anyone can be a scientist – Laura Guertin” (March 2017), <https://marchforsciencephl.tumblr.com/post/158640506352/anyone-can-be-a-scientist-laura-guertin>
- Profiled by Girls Into Geoscience (Plymouth University, UK), Dr. Laura Guertin (October 2016), <https://girlsintogeoscience.wordpress.com/2016/10/05/laura-guertin/>
- Profiled by “Promoting Geoscience Education, Research & Success (PROGRESS)” (September 2015), <https://geosciencewomen.org/get-involved/identify-with-a-scientist/laura-guertin/>

Invited/Guest blog posts

- Guest blogger (invited) for NOAA Teacher at Sea Alumni Association, post titled, “Stitching the Sky at Sea” (May 24, 2023)
- Guest blogger for the National Marine Educators Association (NMEA), post titled, “My journey as a JR Onboard Outreach Officer – Laura Guertin” (May 24, 2022) <https://www.marine-ed.org/news/my-journey-as-a-jr-onboard-outreach-officer-laura-guertin>
- Guest blogger (invited) for NOAA Teacher at Sea Alumni Association, post titled, “Sharing stories of the Louisiana coast through quilts” (April 7, 2022) <https://teacheratseaalumni.org/blog/sharing-stories-of-the-louisiana-coast-through-quilts/>
- Guest blogger for Wiki Education (WikiEdu), post titled, “Adding biographies of female oceanographers” (August 6, 2020) <https://wikiedu.org/blog/2020/08/06/adding-biographies-of-female-oceanographers/>
- Guest blogger for 500 Women Scientists Philly Pod - <https://500womensciphilly.medium.com/>
 - “The Voices of Climate Feminists in *All We Can Save*” (September 12, 2021)
 - “Unlearning Racism in Geoscience (URGE) — one pod leader’s experience” (June 11, 2021)
 - “What’s behind a name? Once you learn, it might be time to rename” (May 1, 2021)
 - “Amanda Gorman and using your voice to be heard” (March 18, 2021)
 - “International Day of Women and Girls in Science 2021 — is this our year?” (February 11, 2020)
 - “My journey as a 500 Women Scientists Wiki Scholar” (July 31, 2020)
- Guest blogger for the AGU’s The Plainspoken Scientist science communication blog, post titled, “Keeping socially connected with science podcasts” (February 22, 2021)

<https://blogs.agu.org/sciencecommunication/2021/02/22/keeping-socially-connected-with-science-podcasts/>

- Guest blogger for *PLOS Sci-Ed*, post titled “The NBA Family Tree” (March 24, 2014) <http://blogs.plos.org/scied/2014/03/24/gust-post-nba-family-tree/>
- Guest blogger (invited) on the Geological Society of America’s *Speaking of Geoscience* blog for a post titled “Coastal Processes and Environments Under Sea-Level Rise and Changing Climate: Science to Inform Management” (May 3, 2013) <http://geosociety.wordpress.com/2013/05/03/coastal-processes-and-environments-under-sea-level-rise-and-changing-climate-science-to-inform-management/>
- Guest blogger for Tyler Arboretum
 - “The Need for Community Conversations Around Nature and Climate Change” (w/Bess Trout, July 15, 2021)
 - “The Cooling Power of Forests” (July 15, 2021)
 - “A ‘Sticky Future’ for Maple Trees” (March 17, 2021)
 - “Honoring Gertrude Wister on International Day of Women and Girls in Science” (February 3, 2021)
 - “Important Bird Areas – The Essential Role They Play in Conservation” (December 8, 2020)
- Guest blogger for Penn State University
 - Penn State Institutes for Energy and the Environment blog, “Waiting for my ships to sail” (May 2, 2022) <https://iee.psu.edu/news/blog/waiting-my-ships-sail>
 - Invited to guest blog on the Penn State Institutes for Energy and the Environment blog, “Communicating climate solutions at the intersections of science and art” (November 8, 2021) <https://iee.psu.edu/news/blog/communicating-climate-solutions-intersections-science-and-art>

Social Media

- Manager of American Geophysical Union (AGU) Instagram account during one-week Instagram takeover (July 9-July 11, 2016), shared images and communicated glacial geology content relating to Alaska’s environments while on location; AGU Sharing Science one-day Twitter takeover (2017, 2020, 4 times in 2022)
- Additional social media takeovers relating to my time on *JOIDES Resolution* include the Instagram account for the National Marine Educators Association (NMEA) and Twitter account for IAmSciComm.
- Manager of Bucknell University’s Instagram account during one-week Instagram takeover
- Previous manager of the Twitter (2010-2018) and Instagram (2016-2018) accounts for the Geoscience Division of the Council on Undergraduate Research (@curgeosciences)
- 500 Women Scientists Philly Pod - Social media manager (2020-2023)

Additional American Geophysical Union (AGU) activities

In addition to my blogging for the American Geophysical Union (AGU):

- Interviewed by WebsEdge Science for AGU TV, displayed during the 2022 Fall Meeting and available in YouTube. I am featured in a solo episode (Climate change, The United Nations & engaging students in a whole new way – Laura Guertin (4:06)) and included in AGU TV Episode 3: “Art & Innovation” (total segment 23:45).

- Panelist for AGU’s Skills for Science: Everyone Looks at the Figures First (AGU Fall Meeting, December 2021, 2022)
- Panelist for AGU’s Skills for Science: Ask the Experts in Science Communication and Public Engagement (AGU Fall Meeting, December 2017, 2022, 2023)
- Invited presenter for AGU webinar, “So, You Wanna Start a Science Blog?” (September 9, 2019)
- Panelist for AGU’s Bloggers Forum (AGU Fall Meeting, December 2013, 2014, 2015, 2016)

Quilting Science Stories – Science Communication/Engagement

In 2018, I expanded my toolkit for communicating science stories through the creation of quilts. Each quilt has a narrative relating to topics ranging from coastal adaptation/resilience to global warming solutions. The quilts are being shared at conferences and in the community. As COVID reduced some of the planned dissemination events for the quilts, YouTube videos and virtual displays have been created to further the reach.

Media features/interviews

- I was interviewed for the series *Innovation Showcase* for a 30-minute episode on *Quilting Science Stories* that aired on public access television across Massachusetts (November 2021). Recording available at: <https://newtv.org/recent-videos-community/105-innovation-showcase/7195-innovation-showcase-laura-guertin-phd-quilting-science-stories>
- I was interviewed by *Smithsonian Magazine* and featured in the article *Inside the Growing Movement to Share Science Through Quilting* (September 13, 2021), available at: <https://www.smithsonianmag.com/science-nature/inside-growing-movement-share-science-through-quilting-180978305/>

Presentations in Fine Arts section of scientific/education conferences (*note additional presentations given at scientific conferences and public venues on the use of quilts for science storytelling are listed above in the appropriate sections – this section lists presentations in sessions/conferences specifically designated as fine arts)

- Guertin, L., Stories from the South Atlantic Ocean: Highlights from an IODP Expedition via Quilts. American Geophysical Union (AGU) Fall Meeting [solo art exhibitor, San Francisco, CA] (December 11-14, 2023)
- Guertin, L., Stitching Hope for the Louisiana Coast. American Geophysical Union (AGU) Fall Meeting [solo art exhibitor, New Orleans, LA] (December 13-17, 2021)
- Guertin, L., Drawing Down Towards Climate Solutions. TEDxPSUBrandywine art display [solo art exhibitor, Penn State Brandywine, Media, PA] (November 17, 2021)
- Guertin, L. Consilience Virtual Exhibition – The Anthropocene. [virtual – **invited** exhibitor along with eleven additional international scientists/artists] (September 15, 2021)
 - <https://artspaces.kunstmatrix.com/en/exhibition/7526365/the-anthropocene>
- Guertin, L. Climate solutions mini quilts. Mid-Atlantic Climate Change Education Conference [virtual – submission **invited** and paid to exhibit] (June 30, 2021)
- Guertin, L. Solving the puzzle of reversing global warming. Sigma Xi Annual Meeting/STEM Art and Film Festival [virtual – submission peer reviewed] (November 8, 2020)

Creation and organization of quilt shows, individual quilts on display

- Six quilts at the **Earth and Mineral Sciences Museum and Art Gallery**, Penn State University, University Park, PA, from November 9, 2023, to January 2024.
- One quilt (What Goes Up, Must Come Down) displayed as part of the Undercover Quilters **Sew Many Colors** Quilt show, Brookhaven, PA, October 13-15, 2023.
- One quilt (It Begins With the Ocean Biome) displayed at the Delaware County Institute of Science (Media, PA) (October 2023-present). Invited.
- One quilt (Blue Skies and Cloud Cover) selected and displayed as part of the **Guild of Natural Science Illustrators 55th Anniversary Juried Members' Exhibition**, a virtual, juried art exhibit starting on August 11, 2023. <https://www.gnsi.org/2023-gnsi-juried-members-exhibit>
- One quilt (Looking Out at the Ghosts of the Coast) selected and displayed as part of **The Changing Chesapeake**, juried art exhibit at the Chesapeake Bay Maritime Museum (St. Michaels, MD), from March 1, 2023, to February 25, 2024. My piece was selected for display at the entrance of the exhibit, out of the 75 pieces in the exhibition (from the 150 submitted).
- Exhibitor at Science Play-Space Initiative (SPI)/Kenyon College Wright Center (Mt. Vernon, OH), from April 2023 to August 2023. Nine quilts on display relating to the **Endangered Species Act**.
- Solo exhibitor - **Stitching Climate Science & Solutions**, at Jenkins Arboretum & Gardens (Devon, PA), from October 1, 2022, thru January 8, 2023. This collection of 24 quilted and 11 crocheted pieces calls attention to changes in local-to-global climate data and the actions we can take in addressing these changes. Pieces include examples from Philadelphia, PA, and the Louisiana coast. The exhibit included an opening reception, educational session on teaching visitors how to research and stitch their own temperature data, and a gallery walk for a high school group.
- Co-creator and organizer (with E. Wilkening) for an annual collaborative virtual/in-person collection of stitched items that celebrate a science theme (2021-present). We open this opportunity to all individuals of all ages and skill levels from any geographic area – one does not need to be a scientist to participate, so we can bridge science communications and community.
 - **Stitch Your Science 2024: Making the Unseen, Seen** – This year-long project has begun with calls for participation.
 - **Stitch Your Ocean Science 2023** – We generated a call for participants in this ocean-themed celebration with any stitched items. This event was endorsed by the United Nations as an Ocean Decade Activity. The result was 13 individuals, two university classrooms, and one oceanographic research vessel's scientists and technicians that submitted 19 items for virtual display in an ArcGIS StoryMap and connecting in Zoom and at the AGU Fall Meeting in San Francisco, CA. Information and the virtual gallery is available at: <https://arcg.is/XuWeX> I presented two of my quilts as part of this event.
 - **Stitch Your Climate Science 2022** – We created a call for any stitched item (crochet, knit, embroidery, quilting, etc.). The result was 22 international stitchers submitting 27 items for virtual display in Google Earth and connecting at the AGU Fall Meeting in Chicago (December 2022). Information and the virtual gallery is available at: <https://tinyurl.com/scistitch22> I presented two of my quilts as part of this event.
 - **Quilt Your Science 2021** - We created a call for quilters to create earth/space science-themed mini quilts. The result was 20 international quilters submitting 23 quilts that were put on virtual display, with a subset of quilters connecting at the AGU Fall Meeting in

New Orleans (December 2021). Information and the virtual gallery is available at: <https://tinyurl.com/sciquilt21> I presented two of my quilts as part of this event.

Virtual reality exhibition of quilt collections

- Drawing Down Towards Climate Solutions. Created with Artsteps, June 2021. Images and descriptions of ten quilts can be viewed at: <http://bit.ly/drawingdowntour>
- Stitching Hope for the Louisiana Coast - a virtual tour. Created with Artsteps, April 2021. Images and descriptions of nine quilts can be viewed at: <http://bit.ly/stitchinghopetour>

Blog postings/videos of science quilt collections

Online descriptions and videos of the quilts can be found at: <https://journeysofdrg.org/tag/sciquilt/>

Video descriptions of quilts are available on YouTube: <http://bit.ly/quiltingsciencestoriesvideos>

IODP Expedition 390 – Stories from the South Atlantic collection

- Quilt collection based upon my two months sailing on board the scientific research vessel *JOIDES Resolution* in the South Atlantic Ocean (started in 2021, creation of quilts completed in 2024). View the 19 quilts and descriptions at: <https://www.sciodquilts.studio/>

Endangered Species Act collection

- Endangered Species mini-quilt collection, for the 50th anniversary of the Endangered Species Act (started in 2022, creation of mini quilts ongoing)

Drawing Down Towards Climate Solutions collection

- Project Drawdown mini quilt collection, ten quilts (quilts, videos and virtual gallery completed 2021). View quilts at: <https://journeysofdrg.org/2021/06/24/drawing-down-towards-climate-solutions/>

Stitching Hope for the Louisiana Coast collection

- Nine full-size quilts completed 2018-2021; blog posts/videos completed 2020-2021. View quilts at: <https://journeysofdrg.org/2021/06/30/full-collection-stitching-hope/>

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