

Laura A. Guertin

Curriculum Vitae

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)

U.S. Congressional Citation Honoree

2008 - Awarded a Congressional Citation by Delaware County U.S. Representative Joe Sestak for civic and community engagement efforts

Penn State Awards and Honors

2009 – Undergraduate Research Mentor Award (first recipient), Penn State Brandywine
2008 – Club Adviser of the Year, Penn State Brandywine
2006 - George W. Atherton Award for Excellence in Teaching, Pennsylvania State University (university-wide teaching award)
2006 – Club Adviser of the Year, Penn State Delaware County
2006 – Student Government Association: Most Involved on Campus, Penn State Delaware County
2005-2006 – 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-level award)
2004 - Woman of the Year, Penn State Delaware County Women's Commission
2002 - Student Government Association Outstanding Service Award, Penn State Delaware County

Additional Awards and Honors

2004 - Delaware County Heritage Society Award for "Tombstones and Spirits"
2003 - Nominated and selected as part of Project Kaleidoscope's Faculty for the 21st Century Network (PKAL-F21)
2000 - Outstanding Faculty Member, Mary Washington College
1997 - Merit Award, American Association of Petroleum Geologists (AAPG)
1997 - Graduate Dean Fellowship, University of Miami
1997 - TEXACO fellowship for outstanding doctoral dissertation research
1995 - Outstanding Student Paper Award, Geology & Hydrology Section, Florida Academy of

Sciences Annual Meeting

1993 - SEPM (Society for Sedimentary Geology) SED (Student Excellence and Development) award, presented to an outstanding graduate student in sedimentary geoscience

Selected to appear in Who'sWho Among America's Teachers (8th edition) from a student Nomination

Appeared in previous Who'sWho editions: Science and Engineering, America, World, American Women

Employment History

2007-present: 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)

1992-1996: Teaching Assistant, University of Miami (FL)

1992: Teaching Assistant, Bucknell University (PA)

Teaching Experience

- Earth Sciences, Penn State Brandywine (2001 – present)
 - *Biodiversity and Earth History*, intro-level honors course and regular course
 - *Critical Issues in Science, Technology, and Society*, intro-level honors course
 - *Dinosaur Extinctions and Other Controversies*, intro-level honors course and regular course
 - *Environment Earth*, intro-level course, taught in 3-week summer session, honors course during the semester
 - *Environments of Africa*, intro-level honors course and regular course taught on campus, taught online across the Penn State system
 - *First Year Seminar: Careers in Science; Diamonds; Man-Eating Lions of Tsavo; Environmental Sustainability and Community Service*
 - *Foundations: Civic and Community Engagement*, foundations course for the academic minor in civic and community engagement. Taught on campus and online
 - *Natural Disasters: Hollywood vs. Reality*, intro-level hybrid course and regular honors course
 - *Planet Earth*, intro-level course with laboratory
 - *The Sea Around Us*, intro-level course with laboratory
 - *World Food Problems*, intro-level honors orientation seminar
 - *The Role of Knowledge in Society*, upper-division interdisciplinary honors course
 - *Earth System Science for Teachers*, graduate-level course co-taught at University Park and Brandywine
- Senior Lecturer, Department of Environmental Science and Geology, Mary Washington College (1998 - 2000)
 - *Introductory Geology, Evolution of the Earth, Marine Coastal Processes, Paleontology*
- 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*

Additional Teaching Opportunities

- Scientist interaction with *Signals of Spring*, where I reviewed student expert analysis journal entries and provide feedback via internet. Students are using NASA and other earth imagery to explain the migration of animals tracked by satellites, <http://www.signalsofspring.net/> (Spring 2002, 2003, 2004)
- Instructor for *Math Options*, A Math and Science Career Day for 7th Grade Girls, PSU Delaware County (May 2002, 2003, 2004, 2005, 2006, 2008, 2009)
- Team Instructor in *The Global Ocean* course for the Masters of Liberal Studies Program, Mary Washington College (Summer 2000)
- Instructor for the Fredericksburg Regional Commonwealth Governor's High School Summer Program *Digging the Summer* (Summer 2000)
- Instructor/Organizer for the second Mary Washington College/Commonwealth Governor's High School Summer Enrichment Program *To Dinosaurs and Back* (Summer 2000)
- Instructor/Organizer for the first Mary Washington College/Commonwealth Governor's High School Summer Enrichment Program *Rivers - From Fredericksburg to Mars* (Summer 1999)

Educational Activities/Workshops

- Career Day participant, Delaware County Juvenile Detention Center (March 31, 2004; November 6, 2003)
- Science Judge at: George Washington Carver Science Fair (Philadelphia, February 26, 2008); Delaware County Science Fair (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)
- **Attended educational short courses/workshops** through the GSA's annual meetings:
 - *Short Course: Teaching Earth System History - A Computer Assisted Approach* (Denver, 1999)
 - *Designing Effective Geoscience Education Research: Qualitative and Quantitative Methods* (Salt Lake City, 2005)
 - *Using Conceptests to Improve Teaching and Learning in Large Classes* (Denver, 2004)
 - *Designing a Successful Student-Centered Online Geology Course* (Boston, 2001)
 - *Integrating Technology into Introductory College Courses: A Practical Guide* (Boston, 2001)
 - *Girl Scout Geology Badge Workshop* (Boston, 2001)
 - *Evolution: Investigating the Evidence* (Denver, 1999)
 - *Developing Undergraduate Research Programs - Strategies for Success* (Toronto, 1998)
 - *Directing Undergraduate Research Programs - Strategies for Success* (Toronto, 1998)

- Oceanography Workshop (Toronto, 1998)
- Learning from the Fossil Record (Denver, 1996)
- Dive into K-12 Geoscience Partnering with Project WET (Denver, 1996)
- Exploring the Solar System in the Classroom: A Hands-On Approach (New Orleans, 1995)
- Computer Applications in Undergraduate Geoscience Courses for the Macintosh (Seattle, 1994)
- Effective Teaching Practices: A Workshop for Graduate Students, Assistant Professors, and Anyone Else Interested in Becoming a Better Teacher (Seattle, 1994)

- **Other educational workshops**

- Google Lit Trips, Technology in Practice Webinar Series through the International Society for Technology in Education (online, January 14, 2009)
- Introduction to Geocaching, Technology in Practice Webinar Series through the International Society for Technology in Education (online, September 24, 2008)
- Storytelling Workshop, Eastern Communication Association annual meeting (Pittsburgh, PA, May 1, 2008)
- Advising the Honors Student: A Teaching-Learning Paradigm, a NACADA workshop at the National Collegiate Honors Council conference (Denver, CO, October 31, 2007)
- The Pennsylvania State University Laboratory for Public Scholarship and Democracy full-day seminar “A Scholarship for Democracy” (April 14, 2007)
- NSF-MARGINS Education Mini-Workshop “Bringing MARGINS Science to the Classroom” (Arlington, VA, April 5-6, 2007)
- The Pennsylvania State University online course “OL 2000: Effective Online Teaching” (January 2007)
- Geoscience Education Research (GeoSciEd IV, Calgary, 2003)
- Selected to attend NAGT/DLESE/NSF “Using Global Datasets in the Classroom” (On the Cutting Edge, Workshop for Geoscience Faculty, San Francisco, 2002)
- Improving Introductory Science Teaching for Non-Science Majors (AGU, San Francisco, 2002)
- Selected to attend NAGT/DLESE/NSF “Designing Effective and Innovative Courses in the Geosciences” (On the Cutting Edge, Workshop for Geoscience Faculty, New York, 2002)
- Introduction to ArcView GIS (DLESE, New York, 2002)
- GIS Techniques for Undergraduate Earth Science (DLESE, New York, 2002)
- Selected as a Teaching Innovation Program (TIP) Faculty Seminar participant for “The Pedagogy of Environmental Awareness” (Mary Washington College, Fall 1999/Spring 2000)
- Selected to attend NAGT/NSF “Workshop for Early Career Faculty in the Geosciences: Teaching, Research, and Managing Your Career” (Montana, 1999)
- Building the Quantitative Skills of Non-Majors in Earth and Planetary Science Courses (PKAL, Virginia, 1999)

Undergraduate Senior Thesis Supervision

- Civic and Community Engagement – Honors thesis adviser to University Park Schreyer Scholar Alyce DiLauro (Summer 2009-present)
- Science, Technology & Society – Honors thesis adviser to Schreyer Scholar Lindley Jones (Fall 2008-present)

- Civic and Community Engagement – Honors thesis adviser to Cooper Scholar Emily Robb (Fall 2008- present)
- Civic and Community Engagement – Honors thesis adviser to Schreyer Scholar Mary Huber (Fall 2008-present)
- Geology - Honors thesis adviser to Lillian Pitts, Coastal Processes along Virginia Beach, Mary Washington College (1999-2000)
- **Additional thesis contributions**
 - Field project adviser for senior thesis of Earth science major on the comparison of anthropogenic and natural beach scallops in Ocean City, MD (Summer-Fall 2006)

Supervisory Research Training and Leadership Roles

- Project adviser for an undergraduate honors project on GoogleLitTrips for geoscience books (Summer 2009-Fall 2009)
- Project adviser for an undergraduate honors project on a comparison of cemetery epitaphs in Philadelphia versus San Juan, Puerto Rico (Summer 2009)
- Project adviser for a team of four undergraduate students for an honors project on cemetery epitaphs (Spring 2009-Summer 2009)
- Project adviser for honors independent study for creating a community of huggy pillow volunteers (Spring 2009)
- Project adviser for an undergraduate honors project on sketching the Smithsonian dinosaur exhibit hall (Summer 2008-present)
- Project adviser for honors independent study on sustainable agricultural practices (Fall 2008)
- Project adviser for an undergraduate honors independent study on international gems and gemstones (Fall 2008)
- Project adviser for an undergraduate honors option project on type specimens of dinosaurs at the Smithsonian's National Museum of Natural History (Fall 2007-Fall 2008)
- Project adviser for an undergraduate project on energy sources and Google Earth (Spring 2007)
- Project adviser for an undergraduate honors option project on cemetery demography from Centralia, PA (Spring 2007-present)
- Project adviser for an undergraduate capstone project for the Civic Engagement minor developing a Service Exchange for high school students and nonprofits (Fall 2006-Spring 2007)
- Project adviser for two students conducting undergraduate research in developing hands-on hydrologic and meteorologic curriculum for elementary school girls (Summer-Fall 2006)
- Project adviser for undergraduate independent research project involving the development of an environmental science essay contest for middle and high school girls (Summer-Fall 2006)
- Project adviser for an undergraduate independent research project involving fluvial studies of Delaware County (Spring 2006)
- Project adviser for an undergraduate honors independent study project involving elephant biodiversity (Spring 2006)
- Project adviser for an undergraduate capstone project for the Civic Engagement minor facilitating service connections with local community groups (Spring 2006)

- Project adviser for undergraduate honors and Civic Engagement minor capstone project involving science programming for Junior Girl Scouts (Fall 2005)
- Project adviser for an undergraduate independent research project involving the comparison of South African with Native American rock art (Fall 2004)
- Project adviser for an undergraduate independent research project involving the development of online activities for the Junior Girl Scouts Water Wonders badge (Spring 2004)
- Project adviser for an undergraduate independent research project involving human demography studies at Cumberland Cemetery (Fall 2003 – Spring 2004)
- Project adviser for an undergraduate independent research project involving preparing curriculum, writing a workbook, and being a co-instructor for a week-long summer enrichment program for middle school girls in biodiversity and Earth history (Summer 2003)
- Honors option adviser for an undergraduate project on science journalism with the issues of creationism, evolution, and intelligent design (Spring 2003)
- Project adviser for an undergraduate independent research project involving writing a Palm handheld computer program for introductory geology research at the King of Prussia Mall (Spring 2003)
- Project adviser for a senior undergraduate independent research project involving writing a workbook and leading activities for the Junior Girl Scouts Oil Up badge (Spring 2003)
- Project adviser for an undergraduate independent research project involving a qualitative comparison of beach sands from Ocean City, MD, and Assateague Island, VA, PSU Delaware County (Fall 2002)
- Project adviser for an undergraduate independent research project involving the use of Palm handheld computers to collect geoscience data in Cumberland Cemetery, PSU Delaware County (Fall 2002)
- Project adviser for an undergraduate independent study project involving careers in oceanography, PSU Delaware County (Spring 2002)
- Project adviser for an undergraduate student Research Project involving collections management and museum science, Mary Washington College (Spring 2000)
- Project adviser for an undergraduate student Research Project involving X-ray diffraction, Mary Washington College (Fall 1999)
- Faculty sponsor, undergraduate summer internship at the USGS (1999)
- Trained and supervised six undergraduate students in how to prepare and run samples on a superconducting rock magnetometer, University of Miami
- Student representative to the academic committee (1994-1997) and to the faculty (1995-1997), Division of Marine Geology & Geophysics, University of Miami
- Assisted in organizing division seminar and initiated student seminar series, Univ. of Miami

Professional Activities

- Invited speaker for 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 panelist for session “Mid-Career Faculty: Issues, Challenges, and Opportunities,” Geological Society of America Annual Meeting, October 6, 2008

- 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 Marshall College, “Keeping Students Engaged in STEM,” April 25-26, 2008
- Co-leader for CUR workshop “How to establish and sustain an Undergraduate Research Program,” Las Vegas, NV, Association of American Geographers conference, Monday, March 23, 2009
- Co-leader for CUR workshop “Starting out in Undergraduate Research and Education: A Professional Development Workshop for Young Faculty,” Geological Society of America conference, Houston, TX, Saturday, October 4, 2008
- Co-leader for CUR workshop “Institutionalizing Undergraduate Research at the Community College at Monroe Community College,” Rochester, NY, June 12-13, 2008
- 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)
- 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)
- Participant on NSF Review Panels, CCLI-A&I (2003, 2004, 2005), CCLI-EMD (2002), STEMTP (2001), Washington D.C.
- Session Chair, Geoscience Education Poster Session, AGU Spring 2000 Meeting
- Reviewer for a book chapter for a volume on "*Field Geology Education--Historical Perspectives and Modern Approaches*," to be published in the Geological Society of America Special Papers series (October 2008)
- Reviewer of manuscripts submitted to the Journal of Geoscience Education (2000, 1 in 2004, 1 in 2005)

- Reviewer of manuscripts submitted to the Journal of Women and Minorities in Science and Engineering (1 in 2004, 1 in 2005)
- Reviewer for Chernicoff/Fox/Tanner's Physical and Historical Geology textbook (Houghton Mifflin) (2000)
- Reviewer for Plummer/McGeary/Carlson's Physical Geology textbook (WCB/McGraw-Hill) (1998)

Grants Awarded

- Schreyer Honors College Course Development/Enhancement Award (PSU, Fall 2008, \$1,500)
- Global Funds grant, University College (PSU, Spring 2008, \$1,600)
- Constitution Day grant, Laboratory of Public Scholarship and Democracy (PSU, Fall 2008, \$1,000)
- Faculty Enhancement Grant (PSU-ITS, 2007)
- Public Scholarship Course Enhancement Grant (PSU, 2006, 2007)
- Multicultural Teaching Academy participant and grant recipient (PSU, 2006)
- Schreyer Institute for Teaching Excellence Innovation Incentive Grant (PSU, Spring 2004-Fall 2005)
- Teaching Development Grant, Penn State (Commonwealth College - awarded 1 in 2003, 1 in 2004, 1 in 2005; Brandywine –1 in 2007, 1 in 2008)
- Campus Collaborative Teaching/Learning Project (PSU Delaware County) (awarded 1 in 2001, 1 in 2002)
- TIP Faculty Travel Grant (Mary Washington Col.) (awarded 1 in 1998, 4 in 1999, 1 in 2000)
- Faculty Development Supplemental Grant (Mary Wash. Col.) (awarded 2 in 1998, 4 in 1999)
- Bader Memorial Research Fund (Univ. of Miami) (1996)
- Student research grant, Geological Society of America (1997)
- Student research grant, Southeastern Section-Geological Society of America (1995)
- Grants-in-Aid of Research, Sigma Xi (1995)
- Student travel grant, Southeastern Section-Geological Society of America (1995, 1996, 1997)
- University of Miami/RSMAS student travel fund (1995, 1996, 1997)

Past Funding from Outside Research Grants

- Editor (one month income paid, two years) from National Science Foundation grant “Linking Pedagogy, Resources, and Community Interaction to Support Entry-Level Undergraduate Geoscience Education”
- National Science Foundation: “Increasing Diversity in the Geosciences: Building and Maintaining a Pipeline.” Co-Principle Investigator (PI is Dr. Tanya Furman, Undergraduate Program Chair, Department of Geosciences, Penn State University). Two years.
- Environmental Protection Agency: “SPHERES! (Science Programming HERE, Scouts!) at Penn State Delaware County.” PI on proposal. One year (2005-2006). Amount: \$9,535
- Society of Women Environmental Professionals: “Concern and Care for the Earth: An Essay Writing Contest for Girls.” PI on proposal. 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). Amount: \$3,750, \$6,250, \$11,750

Current Funding from Outside Research Grants

- National Science Foundation: “Collaborative Proposal: Building and Maintaining a Pipeline for Diversity: A Track2 Proposal.” Co-Principle Investigator (PI is Dr. Tanya Furman, Undergraduate Program Chair, Department of Geosciences, Penn State University). 2005-2009. Award #0503521. Amount: \$900,872
- National Science Foundation: “Faculty Development Workshops to Support Engagement in Undergraduate Research.” Co-Principle Investigator (PI is Dr. Lydia Fox, University of the Pacific). 2008-2010. Award #0841267. Amount: \$49,000
- UNH GEO-Teach: Transforming Earth System Science Education.” Funded subcontractor to co-lead summer workshops and mentor graduate students in ESS education. 2006-2009. Award #0631377.
- National Collegiate Honors Council Portz Fund: “Establishing a Base Collection of Library Resources on Professional Research Skills.” Amount: \$200
- Scholars in Service to PA, AmeriCorps Education Award program, awarded five quarter-time and two minimum-time AmeriCorps positions for Penn State Brandywine. One year (2009-2010). PI on proposal. Amount: \$8,250

Professional Workshops/Short Courses

- “Stewardship of Public Lands,” led by the American Democracy Project/AASCU, Yellowstone National Park, WY (2007)
- “National Collegiate Honors Council – Technology in Honors Education,” led by the Honors College at University of Central Arkansas, Conway, AR (2007)
- “Podcasting in Higher Education: Current Trends and Applications,” online workshop through the Sloan Consortium (2007)
- “Professional Development Institute for Community Service and Service-Learning Professionals,” led by Campus Compact, Providence, RI (2006)
- “Just-in-Time Teaching Assessment Workshop,” led by faculty with NSF funding for JiTT initiatives, Colorado Springs, CO (2005)
- “Writing a Good NSF Geoscience or Geoscience Education Proposal Workshop,” led by the National Science Foundation, Washington, D.C. (2000)
- “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)

Fieldtrips

- Denver EarthCache Tour, led by C. McLelland of the Geological Society of America (Denver, 2007)
- Denver's Building Stone Tour, led by J. Murphy of the Denver Museum of Nature and Science (Denver, 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, 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, 1999)
- "Jurassic Morrison Dinosaurs of Utah and Colorado," led by D.D. Gillette, AAPG Annual Meeting (Salt Lake City, 1998)
- "Miocene Phosphate Deposits of Florida," led by J.S. Compton, 1st SEPM Congress on Sedimentary Geology "Linked Earth Systems" (St. Petersburg Beach, 1995)
- "Carbonate Sedimentology of Great Bahama Bank," led by R.N. Ginsburg (Bahamas, 1993)

Committees/Memberships

- Campus service: Faculty Adviser for We Are Penn State MADE (Making A Difference Everyday) (2005-2007); THON, Penn State Dance Marathon (2003-2009); Organizer of Clarence D. Bell Public Service Lecture Series (4 lectures in each 2006, 2007, 2008); Organizer of Voices of Innovation Seminar Series (2008-present)
- Campus level: College representative for College of Earth and Mineral Science (ongoing); Campus coordinator of the Civic and Community Engagement Minor (2005-present); Honors program coordinator for campus (2006-present); Campus Promotion & Tenure Committee (2008-2010); Capital Campaign Committee (2009-present); Faculty Admissions Advisory Committee (2007-2008); 40th Anniversary Campus Committee and Chair of 40 Acts of Kindness Sub-committee (2006-2008); Campus Faculty Executive Committee Member (2002-2004, 2009-2011); Faculty Advisory Group for Student Life (2002-2004); Technology Advisory Committee (2003-2009); Honors Advisory Committee (2003-present); EURECA (campus student research symposium, Spring 2003-Spring 2005, 2008-2009); Take Our Daughters and Sons to Work Day Working Group (2004); Earth Day Working Group (2004)
- College level: Served on P&T committee for two candidates at the Penn State DuBois campus (2009); 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: Co-chair of intercollege minor on civic and community engagement (2006-present); Laboratory for Public Scholarship and Democracy Advisory Council (2006-2007); Faculty Advisory Committee for the Schreyer Honors College (2007-2010); Reader of essays for prospective Schreyer Honors Scholars (Fall 2006-present)
- Member of National Science Teacher Association's Multicultural/Equity Science Education Committee (2003-2006)

- Councilor for Geosciences Division, Council on Undergraduate Research (2003-2009), Chair of Geoscience Division (2008-present)
- Councilor-at-large, National Association of Geoscience Teachers (2006-2009)
- Academy of Natural Science's Teacher Virtual Advisory Committee (2001-2005)
- National Association of Geoscience Teachers (NAGT)
- Geological Society of America (GSA) *** Campus representative (2002-present)
- American Geophysical Union (AGU)
- Council on Undergraduate Research (CUR) *** Campus representative (2001-present)
- National Science Teachers Association (NSTA)
- National Earth Science Teachers Association (NESTA) (2008-present)
- Sigma Xi (1996-present)
- National Collegiate Honors Council (NCHC) (2006-present)
- Pennsylvania Academy of Science (PAS) (2005-2006, 2008-present)
- International Society for Technology in Education (ISTE) (2005-2006, 2008-present)
- Pennsylvania Geographical Society (PGS) (became lifetime member in 2008)
- Association of American Geographers (AAG) (2008-present)
- Association for Gravestone Studies (AGS) (2008-present)

Additional Information

- 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"
- Served two years as a Science Representative for Mary Washington College's Graduate School Information Sessions
- Participant in the Smithsonian's Museum of Natural History "Paleobiology Training Program", with sessions covering paleontology and collections management (Washington D.C., 1999)
- Participant in the Denver Museum of Nature and Science "Paleontology Certification Program", month-long sessions titled Research Methods and Report Writing and Curation Techniques (Colorado, 2000-2001)
- Participant in nautical and aeronautical charting and surveying, GPS field experience, Field Photogrammetry Unit, National Ocean Service, NOAA (Summers 1991, 1992)
- Participant in the Northern Baja Global Positioning System (GPS) Experiment, Baja California, Mexico, through the Jet Propulsion Laboratory (JPL) in Pasadena, California (Spring 1993)

Presentations (without published abstracts)

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

Lisle, R.L., Guertin, L., *Small-scale agriculture: how it functions, how it survives*. Presented at the Sigma Xi (The Scientific Research Society) Research Symposium, Saint Joseph's University, Philadelphia, PA, April 17, 2009. Presented by undergraduate author Risa Stacey Lisle.

Showalter, A., Collins, C., Pedraza-Rivera, P., Lafauci, J., Guertin, L., *Gender terms for married couples on Cumberland Cemetery tombstones*. Presented at the Sigma Xi (The Scientific Research Society) Research Symposium, Saint Joseph's University, Philadelphia, PA, April 17, 2009. Presented by undergraduate author A. Showalter.

Pedraza-Rivera, P., Collins, C., Showalter, A., Lafauci, J., Guertin, L., *Gender differences as perceived on Cumberland Cemetery tombstones*. Presented at the Sigma Xi (The Scientific Research Society) Research Symposium, Saint Joseph's University, Philadelphia, PA, April 17, 2009. Presented by undergraduate authors C. Collins & P. Pedraza-Rivera.

Invited speaker on *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.

Lauser, K., Guertin, L., Goldschmidt, M., *A proposal to eliminate urban hunger with community involvement and innovative food distribution system*. Presented at the Northeast Region Honors Conference, Annapolis, MD, March 29, 2009. Presented by undergraduate author K. Lauser.

Meyers, T., Guertin, L., Goldschmidt, M., *Cultivating the arts at Penn State Brandywine*. Presented at the Northeast Region Honors Conference, Annapolis, MD, March 29, 2009. Presented by undergraduate author T. Meyers.

Choi, J., Guertin, L., *Using the grid system to document Smithsonian dinosaur type specimens*. Presented at the Northeast Region Honors Conference, Annapolis, MD, March 29, 2009. Presented by undergraduate author J. Choi.

Robb, E., Liskowycz, M., Jones, L., Arena, R., *Capturing the sun through advanced technology*. Undergraduate Research at the Capitol – Pennsylvania, Harrisburg, PA, March 24, 2009. Presented by undergraduate author L. Jones.

Meyers, T., Guertin, L., *Smithsonian dinosaur type specimen*. Undergraduate Research at the Capitol – Pennsylvania, Harrisburg, PA, March 24, 2009. Presented by undergraduate author T. Meyers.

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., 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., *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., *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.

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

Meyers, T., DiLauro, A., Guertin, L., *Smithsonian “classic” dinosaur specimens*. Presented at the Sigma Xi (The Scientific Research Society) Research Symposium, Saint Joseph’s University, Philadelphia, PA, April 18, 2008. Presented by undergraduate authors T. Meyers & A. DiLauro.

Invited plenary panelist (w/Rodriguez, H., and Takayama, K.) on The Scholarship for Learning and Teaching, Lilly-East Conference on College and University Teaching, University of Delaware, April 16-18, 2008.

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

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

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. **Student co-presenter.**

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

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

Scholtz, L., Guertin, L.A., *Cemetery demography of Centralia, Pennsylvania*. Sigma Xi (The Scientific Research Society) Research Symposium, Saint Joseph’s University, Philadelphia, PA, April 20, 2007. **Student presenter.**

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

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

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

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

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

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

Tessmer, M., Hagan, J., Guertin, L.A., *International collaboration on Leaf Pack research through technology*. National Educational Computing Conference (NECC), Philadelphia, June 30, 2005. **Student presenters.**

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

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

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

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

Guertin, L.A., *Dinosaurs and the Philadelphia Connection*. White Horse Village Cultural Encounters Lecture Series, January 6, 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., *Innovative uses of Palm Pilots in introductory-level geoscience courses*. Department of Geosciences Colloquium, Penn State University – University Park campus, October 5, 2004.

Guertin, L.A., *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., *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., *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. **Student co-author**

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

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

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

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

Guertin, L.A., Dudkin, E.A., Van Leuvan, P.A., *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., *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. **Student co-authors**

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.

Publications (peer-reviewed journals)

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, accept for publication in first issue of 2009. **Student Co-authors.**

Guertin, L.A. *Pre-recorded online audio review sessions*. College Teaching (accepted 11/13/2007, to be published 2009).

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

Guertin, L.A., Sealy, A., 2007. *The challenges of establishing an environmental science essay contest for girls*. Journal of the Pennsylvania Academy of Science, v. 81, n. 1, p. 35-38. **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, v. 3, n. 2, p. 133-141. <http://jolt.merlot.org/vol3no2/guertin.pdf>

Guertin, L.A., 2007. *Preparing students for research at the introductory-level with technology*. In: K.K. Karukstis & T.E. Elgren (Eds.), *Developing & Sustaining a Research-Supportive*

Curriculum: A Compendium of Successful Practices. United States: Council on Undergraduate Research, p. 112-113.

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

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

Guertin, L.A., Downey, E.A., 2005. *Bringing Absolutely Incredible Kid Day! to the classroom and campus community*. The Journal for Civic Commitment, Issue 6, URL: <http://www.mc.maricopa.edu/other/engagement/Journal/Issue6/Guertin.jsp>

Guertin, L.A., 2005. *Using virtual lectures to educate students on plagiarism*. First Monday, v. 10, n. 9, URL: http://www.firstmonday.org/issues/issue10_9/guertin/index.html

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

Guertin, L.A., 2005. *An indoor shopping mall building stone investigation with handheld technology for introductory geoscience students*. Journal of Geoscience Education, v. 53, n. 3, p. 253-256.

Guertin, L.A., Cao, E.T., Craig, K.A., George, A.E., Goldson, S.T., Makatche, S.P., Radusevich, B.T., Sandor, C.W., Takos, A.T., Tuller, R., Williams, J.K., Williams, M.A., 2004. *Bringing dinosaur science to the Junior Girl Scouts through a college service learning project*. Journal of Science Education and Technology, v. 13, n. 4, p. 523-531. **Student Co-authors.**

McNeill, D.F., Cunningham, K.J., Guertin, L.A., Anselmetti, F.S., 2004. *Depositional themes of mixed carbonate-siliciclastics in the south Florida Neogene: application to ancient deposits*. AAPG Memoir 80 "Integration of Outcrop and Modern Analogs in Reservoir Modeling," editors G.M. Grammer, P.M. Harris, G.P. Eberli.

Guertin, L.A., Rufo, J.L., 2004. *A positive science and technology experience for Junior Girl Scouts through a college service learning project*. Journal of Women and Minorities in Science and Engineering, v. 10, n. 1, p. 79-88. **Student Co-author.**

Guertin, L.A., Nguyen, C., 2003. *Combining a historical geology project with a campus student organization's fundraising efforts*. Journal of Geoscience Education, v. 51, n. 4, p. 378-380. **Student Co-author.**

Guertin, L.A., 2003. *News updates on handheld technology in introductory-level courses*. The Successful Professor, v. 2, n. 3, p. 10-11.

Cunningham, K.J., Locker, S.D., Hine, A.C., Bukry, D., Barron, J.A., Guertin, L.A., 2003. *Interplay of Late Cenozoic siliciclastic supply and carbonate response on the southeast Florida platform*. Journal of Sedimentary Research, v. 73, p. 31-46.

Guertin, L.A., November 05, 2001. *Enhancing academic advising with a monthly newsletter*. The Mentor: An Academic Advising Journal (www.psu.edu/dus/mentor/).

Cunningham, K.J., Bukry, D., Sato, T., Barron, J.A., Guertin L.A., Reese, R.S., 2001. *Sequence stratigraphy of a south Florida carbonate ramp and bounding siliciclastics (Late Miocene-Pliocene*. in: Missimer, T.M., Scott, T.M. (eds.), *Geology and Hydrology of Lee County, Florida*, Durward H. Boggess Memorial Symposium, Florida Geological Survey Special Publication No. 49, p. 35-66.

Cunningham, K.J., Locker, S.D., Hine, A.C., Bukry, D., Barron, J.A., Guertin, L.A., 2001. *Surface-geophysical characterization of ground-water systems of the Caloosahatchee River basin, southern Florida*. U.S. Geological Survey Water-Resources Investigations Report 01-4084, 76 pp.

Guertin, L.A., 2000. *Using logic problems in introductory-level geoscience courses to develop critical reasoning and basic quantitative skills*. *Journal of Geoscience Education*, v. 48, p. 423-427.

Guertin, L.A., Missimer, T.M., McNeill, D.F., Cunningham, K.J., 2000. *Hiatal duration of correlative sequence boundaries from Oligocene-Pliocene mixed carbonate/siliciclastic sediments of the south Florida Platform*. *Sedimentary Geology*, v. 134/1-2, p. 1-26.

Guertin, L.A., McNeill, D.F., Lidz, B.H., Cunningham, K.J., 1999. *Chronologic model and transgressive-regressive signatures in the late Neogene siliciclastic foundation (Long Key Formation) of the Florida Keys*. *Journal of Sedimentary Research*, v. 69, p. 653-666.

Cunningham, K.J., McNeill, D.F., Guertin, L.A., Scott, T.M., Ciesielski, P.F., de Verteuil, L., 1998. *A new Tertiary stratigraphy for the Florida Keys and southern peninsula of Florida*. *Geological Society of America Bulletin*, v. 110, p. 231-258.

Book Chapters

Guertin, L.A., Esparragoza, I.E. *Beginning undergraduate research experiences at the freshman and sophomore level at Penn State Brandywine*. Council on Undergraduate Research book, *Broadening Participation in Undergraduate Research*. Accepted for publication. To be published early 2009.

Guertin, L.A. *Just-in-Time Teaching in the Geosciences*. *Just-in-Time Teaching (JiTT) Across the Disciplines (NTLF/Stylus)*. Accepted for publication. To be published November 2009.

Fieldguides, Contributions, and Unpublished Material

Guertin, L.A., *Allowing students' "hearts" to drive community service*. Vermont Community Works, Higher Ed Curriculum Exemplar, 2006, Access at: <http://www.vermontcommunityworks.org/exemplars/exemphghed/pennhug/pennhug.html>

Guertin, L.A., *Tracking Dinosaurs*. Math Options 2005, 2006 and 2008, Penn State Brandywine, A Math and Science Career Day for 7th Grade Girls, Workbook.

Guertin, L.A., *There's No Telling What a Tombstone Can Tell You!* Math Options 2004 and 2009, Penn State Brandywine, A Math and Science Career Day for 7th Grade Girls, Workbook.

Guertin, L.A., *The Power of Paleontology (and how to "DIG" dinosaurs!)*. Math Options 2003, Penn State Brandywine, A Math and Science Career Day for 7th Grade Girls, Workbook.

Guertin, L.A., *Paleontology: From Microfossils to Dinosaurs*. Math Options 2002, Penn State Brandywine, A Math and Science Career Day for 7th Grade Girls, Workbook.

Guertin, L.A., *To Dinosaurs And Back*. Mary Washington College/Commonwealth Governor's High School Summer Enrichment 2000 Workbook.

Guertin, L.A., *Digging The Summer*. Fredericksburg Regional Commonwealth Governor's High School Summer Program 2000 Workbook.

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.

Abstracts

Guertin, L.A. (2009). Cemeteries as sites of multidisciplinary research for undergraduate students. Association of American Geographers Annual Meeting, http://communicate.aag.org/series/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.

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.

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.

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., Froborg, 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., Froborg, 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., Froborg, 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. **Student co-authors, session co-chair.**

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. **Student lead author and 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. **Session co-chair.**

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. **Student Authors and Presenter.**

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. **Session Co-chair.**

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 PalmTM 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. **Session Co-chair.**

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. **Student Author, Presenter and Award Winner.**

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. **Session Chair.**

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. **Student Author and 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 Abstract)

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 Speaker.**

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