

**STEVEN C. KERLIN, Ph.D.**  
Director of Environmental Education

Stroud Water Research Center  
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**Education**

Ph.D., The Pennsylvania State University, 2009.  
Major: Curriculum & Instruction  
Areas of Emphasis: Science & Environmental Education

M.S., The Pennsylvania State University, 2007.  
Major: Curriculum & Instruction  
Area of Emphasis: Science Education

Non-Degree Environmental Science & Education Graduate Credits, 1998-2005.  
5 credits – Colorado School of Mines, 3 credits – Indiana Wesleyan University, 5 credits – The Pennsylvania State University, 4 credits – PA Intermediate Unit #6, 2 credits – Indiana University of Pennsylvania, 4 credits – College of the Atlantic, 6 credits – SUNY Brockport

B.S., The Pennsylvania State University, 1998.  
Major: Secondary Education  
Areas of Emphasis: Science Education with teaching certifications in Earth/Space Science & General Science

**Licensures and Certifications**

Earth/Space Science and General Science Level II Teaching Certificate Grades 7-12, Pennsylvania Department of Education. (May 2004 - Permanent).

Earth/Space Science and General Science Level I Teaching Certificate Grades 7-12, Pennsylvania Department of Education. (May 1998 - 2004).

Project Learning Tree Facilitator, Wisconsin Center for Environmental Education. (August, 2013).

Project WILD and WILD Aquatic Facilitator, Kentucky Department of Fish & Wildlife Resources. (February, 2010).

Project WET Facilitator, Kentucky Department of Fish & Wildlife Resources. (June 2011).

Camp Program Director, Boy Scouts of America National Camping School. (May 1995).

Ecology/Conservation Director, Boy Scouts of America National Camping School. (May 1997).

**Professional Memberships**

Pennsylvania Association of Environmental Educators (February 2016 – Present).

Pennsylvania Science Teachers Association (2016 – Present).

Wisconsin Association for Environmental Education. (August 2014 – August 2016, Elected to Board of Directors for 2015-2016).

North American Association of Environmental Education. (July 2010 – Present).

Association of Nature Center Administrators, (March 2013 – Present).

Kentucky Association for Environmental Education. (September 2009 - Present).

Wisconsin Society of Science Teachers (March 2015 – Present).

National Science Teachers' Association. (1994 - Present).

National Association of Research in Science Teaching. (January 2005 - 2013).

Ohio River Basin Consortium for Research and Education. (2011 – 2013).

Kentucky Academy of Science. (November 2010 – 2013)

International Society of the Learning Sciences. (June 2009 – June 2011).

American Geophysical Union. (November 2007 – November 2009).

## **Awards**

WI Nature Centers Collaborative nominated for Collaborating for Transformation Award from Leadership Wisconsin (2015).

UW-Stevens Point College of Natural Resources Outreach Award (2015).

National Space Grant Graduate Fellowship. (2008-2009).

Lavanda P. Muller Graduate Fellowship in Education. (2007-2008).

Eva Diefenderfer Graduate Fellowship in the College of Education. (2006-2007).

Robert Graham Endowed Graduate Fellowship. (2005-2006).

Eagle Scout, Boy Scouts of America (1994).

## **ADMINISTRATIVE EXPERIENCE**

### **Stroud Water Research Center**

#### **Director of Environmental Education, (January 2016 – Present)**

Lead Stroud Center's Education Department by managing education staff and resources, interacting and collaborating with science, restoration and other support staff, providing public outreach and education programming, leading grant funding initiatives, managing budgets, and providing vision and leadership for environmental education activities, programs, and advancement. Create programs and products that enhance public understanding of freshwater ecosystems, especially streams and rivers, and provide them with the tools to practice good stewardship. Translate the research findings of Stroud Center scientists and others into compelling and accessible language for the public. Work interactively and collaboratively with the scientific, restoration, development and communications staff to enhance Stroud's outreach programs wherever possible.

### **University of Wisconsin-Stevens Point and UW-Extension**

#### **Creator and Program Coordinator, WI Nature Centers Collaborative (July 2013 – December 2015).**

A state-wide initiative of UW-Extension, Wisconsin Center for Environmental Education & Wisconsin Association for Environmental Education. Lead creation of state-wide inventory of 698 environmental and outdoor education organizations, 137 of which are nature centers. Manage communications across the inventory of organizations. Organize, plan, facilitate and present at regional networking and professional development events. Conduct site-based organization management and visioning consultations. Manage the Land Management at Nature Centers program. Plan and lead professional development workshops for naturalists and administrators. Led the development, implementation, analysis and reporting of the Status and Needs of Environmental Education Related Organizations in Wisconsin: Results of the 2014 state-wide survey. Encourage sustained partnerships and collaborations across environmental related organizations through administering a small grants program. Supervise student workers and coordinate outreach services with additional Wisconsin Center for Environmental Education faculty & staff, College of Natural Resources faculty & staff, and Wisconsin Association for Environmental Education board of directors.

### **Northern Kentucky University**

#### **Director, Center for Environmental Education (July 2009 – June 2013).**

Responsible for all programs, budgets, and personnel in this self-supported university center. Designed and coordinated environmental education programs that met university and Kentucky Environmental Education Council goals and initiatives. Guided the design and implementation of P-12, university, and community environmental education programs and teacher professional development in workshops, and taught graduate level environmental education courses. Lead evaluation and research of internal and external programs. Created and managed revenue, expense and foundation budgets. Wrote proposals for external funding and managed awarded grants.

Supervised and mentored part-time professional staff, student workers, and interns. Cultivated community-based partnerships with schools, other environmental education organizations and local governmental organizations.

**Coordinator, Environmental Education Graduate Teacher Endorsement (July 2009 – June 2013).**

Redesigned the KY Department of Education approved 12-credit graduate endorsement program. Taught or co-taught all courses in the program. Revised required courses. Created new courses including field studies and service learning in environmental education. Advertised program and increased enrollment, interest in the program and completion rates.

**Penns Valley School District**

**Advisor, Outing Club (1998-2005).**

Created and advised middle and high school outdoor adventure club. Planned and lead adventure trips such as caving, hiking, mountain biking, camping, kayaking, and whitewater rafting.

**Co-Advisor, Science Olympiad Team (1998-2005).**

Mentored middle and high school students to compete at state Science Olympiad competition. Managed team budget, supplies, recruitment, and transportation with co-advisor.

**Whipple Dam State Park, Pennsylvania State Parks**

**Lifeguard Supervisor (2001).**

Trained lifeguards, supervised staff, provided basic first aid, lifeguarded, and provided safe swimming environment for patrons.

**State College High School Natatorium**

**Supervisor & Aquatic Paraprofessional (September 1996 - December 1997).**

Managed natatorium operations during off-school hours. Scheduled and supervised lifeguards. Maintained water quality and facilities. Scheduled programs, lifeguarded, and taught swimming lessons.

**Custaloga Town Scout Reservation, French Creek Council - Boy Scouts of America**

**High Adventure Program Area Co-Director. (2000).**

Co-planned and lead adventure trips for 14-18 year old scouts including a week-long canoe trip, rock climbing, caving and mountain biking.

**Camp Program Director (1996 & 1997).**

Managed all residential summer camp programs for Boy Scouts and Webelos (Approximately 300 scouts per week for 8 sessions each summer. Hired and supervised staff of 48 (with Camp Director). Trained instructional staff. Coordinated and managed programs with 8 program area directors (Ecology/Conservation, Aquatics, Scoutcraft, Shooting Sports, Handicraft, First Year Campers, Mountain Biking/Athletics, and C.O.P.E. - High Ropes).

**Ecology/Conservation Program Area Director (1994 & 1995).**

Trained and supervised 3 instructional staff each summer. Planned and lead environmental programs for scouts and adult leaders. Taught nature related merit badges.

## **ACADEMIC APPOINTMENTS**

**University of Wisconsin-Stevens Point**

**Assistant Professor of Environmental Education/Interpretation & Youth Programming/Camp Management**

**UW-Stevens Point College of Natural Resources, Human Dimensions of Natural Resource Management Discipline - 50% teaching appointment (July 2013 – December 2015).**

Teach 6 credits in fall semesters, 6 credits in spring semesters and 3 credits in summer or winter term (2, 2, 1 teaching load) of undergraduate and graduate courses in the environmental education/interpretation and/or youth programming and camp management majors. Advise approximately 15 undergraduate students per year. Mentor and advise graduate students. Conduct, present and publish academic research. Write grant proposals and manage funded grants. Serve on discipline, college, university, professional and community committees.

**UW Extension State-wide Specialist in Nature Center Management - 25% appointment and Wisconsin Center for Environmental Education (WCEE) Outreach Specialist - 25% appointment (July 2013 – December 2015).**

Established and facilitate the Wisconsin Nature Centers Collaborative of 698 environmental and outdoor education related organizations, 137 of which are nature centers. Plan, coordinate, and lead regional networking and professional development events within the WI Nature Centers Collaborative. Conducted 2014 state-wide *Status and Needs Survey of Environmental and Outdoor Education Related Organizations in WI*. Conduct site visit consults to improve management and success of environmental and outdoor education organizations. Manage the Land Management at Nature Centers and Camps grants and honors intern programs. Provide consulting services and grants to encourage professional collaborations across environmental and outdoor education organizations to increase the capacity and quality of programming in WI. Serve as a WCEE faculty liaison to the UWSP College of Natural Resources field stations (Treehaven, Central Wisconsin Environmental Station and Schmeekle Reserve). Provide research based consultations and evaluations to the WCEE programs and partnerships. Assist WCEE staff in grant proposals and contracts and in development of new innovative programming. Serve as the faculty liaison to the WI K-12 Energy Education Program (KEEP).

## **Northern Kentucky University**

**Assistant Professor of Science & Environmental Education - full-time appointment 100% and Director of the Center for Environmental Education (CEE) - extra-duty appointment (July 2009 – June 2013).**

Taught 12 credits of courses each fall and spring semester (4, 4 teaching load) in the teacher education department focused on science education methods, environmental education and research methods. Advised graduate students and served on committees at the university and with community organizations. In addition to the full-time faculty teaching load also taught summer courses, conducted academic research and managed all operations of the CEE. Directing the CEE included writing and implementing internal and external grant projects, supervising student workers and professional staff, managing operational and foundation budgets, planning and leading professional development workshops for teachers and environmental field trips for K-12 students, and coordinating environmental education across the university.

## **TEACHING**

### **Teaching Experience**

**Stroud Water Research Center (January 2016 – Present)**

As Director of Environmental Education - Teach environmental education programs. Train citizen volunteers on stream monitoring protocols. Present watershed and stream ecology topics at community events, schools, and other venues using indoor, outdoor or digital settings (topics ranging from aquatic ecology and chemistry, watershed geography and hydrogeomorphology, forest ecology, general natural history, watershed restoration and conservation), Assist with administration of the Leaf Pack Network® program by contributing to e-mail communications, newsletters, and annual reports, responding to inquiries, updating/versioning manuals, ensuring consistent branding, and interacting with an international audience. Translate and distribute Stroud Center science and other research to a broad audience, Represent Stroud Center at teacher workshops and national

conferences (and provide workshops). Publish (where appropriate) in both peer-reviewed journals and journals of general circulation.

**University of Wisconsin – Stevens Point (July 2013 – December 2015)**

Assistant Professor of Environmental Education & UW-EXT/Coop Ext. Specialist – Youth Programming/Camp Administration

**Scheduled Teaching**

*Fall 2015*

NRES 370 Sections 1-4 Lecture\* (1.5 credits), Introduction to Environmental Study and Education.

Instructor of lecture, continued refinement of redesigned course with new textbook this semester, created new in-person lecture and online components for students to learn environmental content knowledge, lectured about environmental science topics, connected with and scheduled guest speakers and panels for lectures, refined course assessments.

NRES 370 Section 4, High School Discussion Section (1.5 credits), Introduction to Environmental Study and Education.

Continued redesign of this course to tailor activities specifically to high school pre-service teachers.

NRES 483 (3 credits), Professional Development in Natural Resources Management.

Minor revisions to course assignments, coordinated with practicum course instructors, organized and lead four field trips to nature centers and camps around the state.

NRES 410/610 (1 credit), Selected Topics in Environmental Education: Midwest Environmental Education Conference

Minor course revisions, hybrid course with online and conference components.

*Summer 2015*

NRES 760\*\* (1-3 credits), Grant and Proposal Development.

Activated course for graduate students from latent status. Chose new text. Completely designed all new assignments, online activities and built online course.

*Spring 2015*

NRES 383/583 (3 credits), Nature Center and Camp Management.

Minor course revisions including inclusion of more directors from organizations around the state in Skype and in-class discussions with the students and service learning activities with different organizations. Included service learning Land Management & Educational Programming assignments working with Aldo Leopold Nature Center – Monona Campus, Aldo Leopold Nature Center – Black Earth Campus, Conserve School, Treehaven, & Riveredge Nature Center. Also included service learning Strategic Planning assignment working with MacKenzie Environmental Center.

NRES 370 Sections 1-4 Lecture\* (1.5 credits), Introduction to Environmental Study and Education.

Instructor of lecture, continued refinement of redesigned course, created new in-person lecture and online components for students to learn environmental content knowledge, lectured about environmental science topics, connected with and scheduled guest speakers and panels for lectures, refined course assessments.

NRES 370 Section 4, High School Discussion Section (1.5 credits), Introduction to Environmental Study and Education.

Continued redesign of this course to tailor activities specifically to high school pre-service teachers.

*Fall 2014*

NRES 483\*\* (3 credits), Professional Development in Natural Resources Management.

Minor revisions to course assignments, coordinated with practicum course instructors, organized and lead four field trips to nature centers and camps around the state.

NRES 370 Sections 1-4 Lecture\* (1.5 credits), Introduction to Environmental Study and Education.

Instructor of lecture for 79 students, redesigned course to hybrid model of delivery, created new online components for students to learn environmental content knowledge, lectured about environmental science topics, connected with and scheduled guest speakers and panels for lectures, refined course assessments.

NRES 370 Section 4, High School Science & Social Studies Discussion Section (1.5 credits), Introduction to Environmental Study and Education.

Continued redesigning some of this course to tailor activities specifically to high school pre-service teachers.

#### *Summer 2014*

NRES 610\*\* (1 credit), Selected Topics in Environmental Education: WAEE Annual Conference

Minor course revisions, hybrid course with online and conference components.

#### *Spring 2014*

NRES 383\*\* (3 credits), Nature Center and Camp Management.

Major course revisions, designed new learning assessments including site profiles, interviews, land management in the context of nature centers and camps service project, strategic decision making service learning project and readings. Included service learning Land Management & Educational Programming assignments working with Central Wisconsin Environmental Station, Woodland Dunes Nature Center, Schlitz Audubon Nature Center, Riveredge Nature Center & Upham Woods Environmental Learning Center. Also included service learning Strategic Planning assignment working with Upham Woods Environmental Learning Center.

NRES 370 Section 1, Elementary & Special Education Discussion Section (1.5 credits), Introduction to Environmental Study and Education.

Updated course assessments and activities.

NRES 370 Section 4, High School Science & Social Studies Discussion Section (1.5 credits), Introduction to Environmental Study and Education.

Redesigned this course to tailor activities specifically to high school pre-service teachers. Refined course assessments.

#### *Winterim 2014*

NRES 610 Section 883\*\* (2 credits), Selected Topics in Environmental Education – Sustainable Economics.

Collaborated with Mr. Solin, planner of Sustainable Economics Workshop, to design the course projects and assessments.

#### *Fall 2013*

NRES 370 Sections 1-4 Lecture\*\* (1.5 credits), Introduction to Environmental Study and Education.

Instructor of lecture for 80 students, created PPTs and lectured about environmental science topics, correlated lecture topics to state environmental education standards, connected with and scheduled guest speakers and panels for lectures, refined course assessments.

NRES 370 Sections 2 & 3\*\*, Elementary & Special Education Discussion Sections (1.5 credits each), Introduction to Environmental Study and Education.

Instructor for these sections, refined course assessments and activities.

NRES 370 Section 4\*\*, High School Science & Social Studies Discussion Section (1.5 credits), Introduction to Environmental Study and Education.

Instructor for this section, refined course assessments and activities.

NRES 499 Section 2\*\* (2 credits), Environmental Education Teaching Methods.

Instructor for this section, refined course assessments and activities.

\* Denotes newly developed or significantly redesigned course

\*\* Denotes new course preparation

### **Directed Student Instruction**

#### **Doctoral Committee Member**

(Summer 2011 – Completed August 19, 2015) April Haight, Doctorate in Education at Northern Kentucky University, *Exploring teachers' perceptions of environmental education preparation experiences on their incorporation of environmental education in the profession.*

(Fall 2010-Present) William Bennett, Doctorate in Education at Eastern Kentucky University, *The impact of green schools on student academic performance, behavior and attendance and teacher behavior, attendance and instruction.*

#### **Master's Thesis Advisor**

(Fall 2014 – Present) Jenny Christopher, Master of Science in Natural Resources – Environmental Education, University of Wisconsin-Stevens Point, *Educating for Environmental Behavior Outcomes: Exploring the development of perceived collective efficacy in an energy education program.*

#### **Committee Member, Master's Theses**

(2017 – Present) Ed Wilcox, Master of Science in Natural Resources, Kentucky State University.

(Fall 2013 – Completed Spring 2015) Joy Kacoroski, Master of Science in Natural Resources – Environmental Education, University of Wisconsin-Stevens Point, *Use of iPad Mobile Technologies in Environmental Education.*

(Spring 2013 – Completed Spring 2015) Carly Swatek, Master of Science in Natural Resources – Environmental Education/Interpretation, University of Wisconsin-Stevens Point, *A Community Needs Assessment to Explore the Feasibility of Expanding Educational Programming.*

#### **Supervisor, Master's Student Assistantship**

(Fall 2013 – Spring 2015) Wisconsin Center for Environmental Education.  
Supervised and mentored: Joy Kacoroski – WI Nature Centers Collaborative.

#### **Supervisor and Mentor, Interdisciplinary Land Management at Nature Centers Outreach Services, Undergraduate Honors Interns & Crew Leaders**

(Fall 2014 – Summer 2015) College of Natural Resources and UWSP Career Services  
Supervised and mentored honors interns, crew leaders and student crews in partnership with Kevin Burns, (Treehaven Field Station Forest Ecologist), mentored undergraduate research projects:

Andrew Weston – CFI at Upham Woods Outdoor Learning Center. Poster presentation at 2015 CNR Undergraduate Research Symposium, "Continuous Forest Inventory at Upham Woods Nature Center." Awarded Highest Honors for his applied research presentation.

Zachary Buchanan – Forest Management and Logging Plan and Forest Landowners Workshop for Riveredge Nature Center.

Natalie Studer – Forest Inventory at Conserve School. Poster presentation at 2015 CNR Undergraduate Research Symposium, "Forest Metrix and ArcCollector App for Forest Inventory."

Alyssa Grelecki – Assisted with forest inventory at Conserve School.

Kathryn Witkowski – Forestry Education at Upham Woods Outdoor Learning Center. Oral presentation at 2015 CNR Undergraduate Research Symposium, "Development of a Lesson Plan Focusing on Collaboration, Citizen Science, and a Continuous Forest Inventory."

### **Supervisor, Undergraduate Student Workers**

(Fall 2013 – Present) Wisconsin Center for Environmental Education.

Supervised and mentored: Kathryn Witkowski (Fall 2014 – Summer 2015 & Fall 2015),  
Amandina Cyrus (Fall 2013 – Spring 2014)

### **Northern Kentucky University (Summer 2009 – Summer 2013)**

Assistant Professor of Teacher Education, Science & Environmental Education and Director  
of the NKU Center for Environmental Education

#### **Scheduled Teaching**

EDU 594-004 / BIO 694-001, River Ecology for Educators / Field Studies in River Ecology  
(Summer 2012 \*).

EDU 308, Teaching Elementary School Science (2 Sections in Spring 2013, 3 Sections in  
Fall 2012, 2 Sections in Fall 2011 \*\*).

EDG 691, Applied Educational Research I (Fall 2011 \*\*).

EDG 495, Student Teaching Supervision (Spring 2012, Fall 2011 \*\*).

ENV 578, Environmental Issues for Educators (Summer 2011 \*\*).

EDU 599-005 / BIO 494-001, Service Learning in Environmental Education (Summer 2011 \*).

EDG 693-003, Teacher Immersion in Energy 1-credit (Summer 2011 \*).

EDMT 543, Method & Pedagogy Middle School, Secondary Science (Fall 2012, Fall 2011,  
Fall 2010, Fall 2009 \*\*).

EDU 330, Teaching Science in Secondary School (Fall 2012, Fall 2011, Fall 2010 \*\*).

EDU 346, Teaching Science in Middle Grades (Spring 2013, Fall 2012, Spring 2012, Fall  
2011, Spring 2011, Fall 2010, Spring 2010, Fall 2009 \*\*).

EDG 546, Teaching Environmental Education (Spring, 2012, Spring 2011, Spring 2010 \*\*).

EDG 693-004: Teacher Immersion in Energy 3-credits (Summer 2010 \*).

EDG 645: Fundamentals of Environmental Education - Online (Fall 2010 \*\*).

\* Denotes newly developed course

\*\* Denotes new course preparation

#### **Directed Student Instruction**

##### **Committee Member, Master's Thesis**

(Spring - Fall 2012) Rhonda Davis, NKU Master's Capstone Research, *Creation of a  
Kentucky Master Naturalist Training Program Grant Proposal and research on Ecopedagogy  
and Community Literacy.*

##### **Supervised Undergraduate Research**

(Spring 2012 – Summer 2013) Rosemarie Santos, NKU Undergraduate Honors Capstone  
Research, 2012 Summer Undergraduate Research Fellowship, Spring 2013 Regional  
Ecological Stewardship Initiative (RESI) Scholar, *Use of a Green School Learning Laboratory  
as an instructional tool and teachers' perceptions of students' attitudes and academic  
performance.*

Advised and mentored student in research methods and collaborated on research.

##### **Student Investigative Projects**

(Fall 2010 – Spring 2011) Lauren Tesla, NKU Center for Environmental Education  
Mentored student in conducting initial research of the NASA Aerospace Education Service  
Project funded Energy Education professional development program at the NKU Center for  
Environmental Education.

(Fall 2010 – Summer 2011) Diannea Wilson, NKU Center for Environmental Education  
Mentored undergraduate student in creation of educational programming, instruction, and  
volunteer coordination for the University Community Partnership Grant between the Center  
for Environmental Education and Split Rock Conservation Park.



### **Supervisor, Undergraduate Student Workers & Interns**

(Fall 2009 – Summer 2013) NKU Center for Environmental Education.

Supervised, advised and mentored: Katelyn Sullivan, Evelyn Jones, Alexis Rice, Jordan D'Addario, Emily Klein, Rosemarie Santos, Joanna Stayton, Rebecca Ortwein, Regina Edwards, Jennifer Zimmer & Dianne Wilson

Supervised & mentored undergraduate student workers for the Center for Environmental Education. Students planned and implemented environmental education lessons for the community and K-12 schools and performed office duties.

### **The Pennsylvania State University**

#### **Graduate Research Assistantship, College of Education**

Curriculum & Instruction 495C Pre-service Science Teacher Supervisor. (Fall 2005, Spring 2006, Fall 2006, Spring, 2007).

#### **Shaver's Creek Environmental Education Center**

Volunteer Outdoor School Counselor Trainer. (Spring & Fall 1998). Provided orientation to the Earth Science lessons for new counselors.

Outdoor School Counselor. (Fall 1997).

### **Penns Valley Area School District (1998 – 2005)**

9<sup>th</sup> Grade Earth Science Teacher (Developed curriculum for new 9<sup>th</sup> Grade Earth Science course), 8<sup>th</sup> Grade General Science Teacher, Member of 8<sup>th</sup> grade interdisciplinary team of teachers, 7<sup>th</sup> Grade Science Skills Workshop Teacher, Taught classes in semester long 80 minutes block scheduling format. Approximately 125 students every semester, 250 per school-year. Jr. High Boys Basketball Coach, Jr. High Science Olympiad Advisor, Assistant Track Coach, Outing Club Advisor.

### **Custaloga Town Scout Reservation, French Creek Council - Boy Scouts of America**

#### **High Adventure Program Area Co-Director. (2000).**

Co-planned and lead adventure trips for 14-18 year old scouts including a week-long canoe trip, rock climbing, caving, mountain biking.

#### **Mountain Biking Director and Instructor and Athletics Instructor (1999).**

Designed and lead mountain biking trips. Maintained 14 mountain bikes. Taught athletics related merit badges.

#### **Ecology Conservation Program Area Instructor (1992-1995).**

Planned and lead environmental programs for scouts and adult leaders. Taught nature related merit badges.

## **SCHOLARSHIP**

### **Publications and Research**

#### **Peer Reviewed Academic Journal Articles**

Krauss, Z., Kline, D., Marcum-Dietrich, N., Stunkard, C., Kerlin, S. & Staudt, C. (2022). Protecting our WATERS: A 5E lesson sequence derived from a National Science Foundation-funded middle school watershed sustainability curriculum, *Science Activities*, 59:2, 97-105, DOI: 10.1080/00368121.2022.2063243

Marcum-Dietrich, N., Stunkard, C., Krauss, Z., Kerlin, S., Staudt, C., Muenz, T., Kline, D. (2021-2022) Stormy WATERS: COVID-19 transition to online learning for a National Science Foundation (NSF)-funded Environmental Education middle school curriculum. *Science Educator* 28(2).

- Marcum-Dietrich, N., Hendrix, A., Kerlin, S., Staudt, C., & Krauss, Z. (2021) Model My Watershed: An investigation into the role of big data, technology, and models in promoting student interest in watershed action. *Journal of Environmental Education*, 1–14. doi:10.1080/00958964.2021.1979451
- Marcum-Dietrich, N., Stunkard, C., Krauss, Z., Kerlin, S. (2020). Uncharted WATERS: Sustaining a Meaningful Student Teaching Experience Amidst a Global Pandemic via an Online STEM Curriculum. *Current Issues in Middle Level Education*. 25(2): article 3. doi: 10.20429/cimle.2021.250203
- Marcum-Dietrich, N., Kerlin, S., Staudt, C., Daniels, M. (2018). Our Watershed: Students use data and models to make a difference in their own schoolyard. *The Science Teacher*, 85(2), 39-46.
- Kacoroski, J., Liddicoat, K., & Kerlin, S. (2016). Children's Use of iPads in Outdoor Environmental Education Programs. *Applied Environmental Education & Communication*, 15:4, 301-311, DOI: 10.1080/1533015X.2016.1237903
- Kerlin, S., Santos, R., & Bennett, W. (2015). Green Schools as Learning Laboratories? Teachers' perceptions of their first year in a new green middle school. *Journal of Sustainability Education*, 8. Retrieved from <http://www.jsedimensions.org/wordpress/category/departments/scholarly-features/>
- Lane, J., Baker, A., Franzen, R., Kerlin, S., & Schuller, S. (2015). Designing Resilient Energy Education Programs for a Sustainable Future. *Journal of Sustainability Education*, 8. Retrieved from <http://www.jsedimensions.org/wordpress/content/2015/01/>
- Kerlin, S., Carlsen, W., Kelly, G., Goehring, E. (online 2012, print 2013). Global Learning Communities: A comparison of online domestic and international science class partnerships. *Journal of Science Education and Technology*, 22(4), 475-487.
- Kerlin, S. (2012). Professional Development Strategies that Promote Science Inquiry Teaching and Learning. *Kentucky Journal of Excellence in College Teaching*, 10, 74-87.
- Kerlin, S., McDonald, S., Kelly, G. (2010). Complexity of secondary scientific data sources and students' argumentative discourse. *International Journal of Science Education*, 32(9), 1207-1225.
- Kerlin, S., McDonald, S., Kelly, G. (2009). Mapping a Science Inquiry Unit. *Journal of Classroom Interaction*, 43(2), 4-13.

#### **Peer Reviewed Book Chapter**

- Carlsen, W.S., Goehring, E., Kerlin, S.C. (2014). From Local to Extreme Environments (FLEXE): Connecting students and scientists in online forums. In V.C.H. Tong (Ed.), *Geoscience Research and Outreach: Schools and Public Engagement* (pp. 81-89), Book #21 in Innovations in Science Education and Technology series. Dordrecht: Springer Netherlands.

#### **Peer Reviewed Articles in Conference Proceedings**

- Kerlin, S., Goehring, E., Carlsen, W. (2010). Online science collaborations: A comparison of domestic and international learning communities in Gomez, K., Lyons, L., & Radinsky, J. (Eds.) *Learning in the Disciplines: Proceedings of the 9<sup>th</sup> International Conference of the Learning Sciences (ICLS 2010) – Volume 2, Short Papers, Symposia, and Selected Abstracts*. International Society of the Learning Sciences: Chicago, IL.
- Kerlin, S., Goehring, E., Carlsen, W., Larsen, J., Fisher, C. (2009). Design of an online global learning community: International collaboration of grades 7-9 science students in

Dimitracopoulou, A., O'Malley, C., Suthers, D., & Reimann, P. (Eds.) *Computer Supported Collaborative Learning Practices: CSCL 2009 Community Events Proceedings*. International Society of the Learning Sciences: Rhodes, Greece.

#### **Invited Manuscripts in Practitioner Journals**

Hougham, J. & Kerlin, S. (2016). To Unplug or Plug In: Adopting the right mobile digital technologies to enhance environmental education. *Green Teacher*, Fall 2016.

#### **Research Technical Reports**

Hoffman, E., Kerlin, S., & Marcum-Dietrich, N. (2022). *2022 Status and Needs of Non-Formal and Formal (K-12) Environmental Educators Across Pennsylvania*. Millersville University of Pennsylvania, Ed)

Smith, T. S., Kerlin, S., & Marcum-Dietrich, N. (2020). 2019 Status and Needs of Non-Formal and Formal (K-12) Environmental Educators Across Pennsylvania (Millersville University of Pennsylvania, Ed.). <https://repository.library.noaa.gov/view/noaa/24252>

Stroud Water Research Center. (2021). *A Case Study of the Effects of a School Outdoor Learning Initiative – Spring 2021*. Avondale, PA: Kerlin, S. & Marcum-Dietrich, N. Available online at <https://stroudcenter.org/publications/case-study-effects-of-a-school-outdoor-learning-initiative/>

Louw, M., Muenz, T., Roberts, J., Wilson, M., & Kerlin, S. (2018). *Aquatic Macroinvertebrate Identification Trainings for Volunteers: Results of a National Materials and Practices Inventory Survey*. Carnegie Mellon University School of Computer Science. Pittsburgh, PA. (CMU-HCII-18-104).

Hougham, J., Kerlin, S., Liddicoat, K., Ellis, K., & Crampe, E. (2017). Status and Needs of Environmental Education Related Organizations in Wisconsin: Results from the 2015 state-wide survey. UW-Cooperative Extension, Wisconsin Center for Environmental Education, Wisconsin Association for Environmental Education, and the Wisconsin Environmental Education Consortium. Madison, WI. Available online at <http://fyi.uwex.edu/environmentaleducation/files/2017/06/Status-and-Needs-of-Environmental-Education-Related-Organizations-in-Wisconsin-2.0.pdf>

Kerlin, S., Kacoroski, J., & Liddicoat, K. (2015). Status and Needs of Environmental Education Related Organizations in Wisconsin: Results of the 2014 state-wide survey. *UW-Cooperative Extension, Wisconsin Center for Environmental Education, Wisconsin Association for Environmental Education and the Wisconsin Environmental Education Consortium*. Available online at <http://www.uwsp.edu/cnr-ap/wcee/Pages/publications.aspx> and <http://www.waee.dreamhosters.com/state-wide-ee-survey>.

#### **Intellectual Property - Instructional Technology Resource**

Kerlin, S., Steinitz-Kannan, M., Mayfield, H. in collaboration with the NKU Center for Applied Informatics. (2012). Water Quality [Apple mobile application software]. Highland Heights: KY.

#### **Dissertation**

Kerlin, S. (2009). Global learning communities: Science classrooms without walls. *The Pennsylvania State University*, University Park, PA.

#### **Graduate Research Assistantship, The Pennsylvania State University Center for Science & the Schools (CSATS) (Fall 2007 – Summer 2009)**

From Local to Extreme Environments (FLEXE) National Science Foundation funded Earth Systems Science Project (ESSP) partnership project between CSATS and the GLOBE Program. Researcher, curriculum developer, teacher trainer, day-to-day management of online and school-

based program for 1400 middle and high school students and 50 teachers in the U.S., Germany, Thailand, and Australia.

### **Curricula and Instructors' Manuals**

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Kerlin, S., Liddicoat, K. & Franzen. University of Wisconsin System Office of Professional and Instructional Development Conference, "Use of Mobile Apps to Enhance Learning and Engage Digital Natives," Green Lake, WI. (April 16-17, 2015).

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Kerlin, S., Kacoroski, J. & Liddicoat, K. Wisconsin Association for Environmental Education Winter Workshop, "Report of Results of 2014 Status & Needs Survey of WI EE Organizations," Treehaven Field Station, WI. (January 23-25, 2015).

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Kerlin, S. North American Association for Environmental Education Conference, "Initiatives and Process of the Current Wisconsin State Consortium," Ottawa, Canada. (October 8-11, 2014).

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- Kerlin, S. North American Association for Environmental Education Research Symposium, "Thematic analysis of educators' Environmental Education Improvement Plans," Baltimore, MD. (October 8-9, 2013).
- Kerlin, S., McCombs, B., & Hopfensperger, K. North American Association for Environmental Education Conference, "Establishment of an interdisciplinary university Regional Ecological Stewardship Initiative," Baltimore, MD. (October 9-12, 2013).
- Kerlin, S., Herman, L., Mell, R. Wisconsin Association for Environmental Education Annual Conference, "Water Quality: A Stream Study Mobile App to Enhance Learning," UW-Lacrosse, WI. (August 7-9, 2013).
- Mayfield, H. & Kerlin, S. Technology to Empower Citizen Scientists: A workshop to define technology development goals that will expand the power and reach of citizen-based monitoring for the protection of stream biodiversity, An invitation-only conference co-sponsored by the U.S. Environmental Protection Agency, Cincinnati Green Umbrella, Northern Kentucky University and Confluence, "Macroinvertebrate Bioassessment Using New NKU Water Quality App," Northern Kentucky University, KY. (March 25-27, 2013).
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- Kerlin, S. & Bennett, W. North American Association for Environmental Education Research Symposium, "Longitudinal study of a green school as a learning laboratory," Oakland, CA. (October 9-10, 2012).

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- Santos, R., Kerlin, S., & Bennett, W. Kentucky Association for Environmental Education and Southeast Regional Environmental Education Conference, "Research of green school teacher focus groups," Cumberland Lake State Park, KY. (September 14-15, 2012).
- Steinitz-Kannan, M., Kerlin, S., & Mayfield, H. Ohio River Basin for Research and Education Symposium, "Merging river field studies with mobile and online technologies – A new initiative of the Ohio River STEM Institute," Ohio University, Athens, OH. (July, 18-20, 2012).
- Bennett, W., Humphrey, D., & Kerlin, S. Green Schools National Conference, "Benefits of green schools on academic achievement and attitudes: A research approach," Denver, CO. (February 27-29, 2012).
- Kerlin, S., Bennett, W., & Humphrey, D. Green Schools National Conference, "Curriculum and professional development in a green school learning laboratory," Denver, CO. (February 27-29, 2012).
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- Kerlin, S., Gamrat, C., North American Association for Environmental Education Conference, "Energy resources and instructional products generated in online teacher collaborations," North American Association for Environmental Education, Raleigh, NC. (October 12-15, 2011).
- Carlsen, W., Kerlin, S., Goehring, E. North American Association for Environmental Education Research Symposium, "Innovative approaches to evaluation research in an environmental education project," North American Association for Environmental Education, Raleigh, NC. (October 11-12, 2011).
- Kerlin, S., Gamrat, C. North American Association for Environmental Education Research Symposium, "Teacher use of online collaboration tools for professional development," North American Association for Environmental Education, Raleigh, NC. (October 11-12, 2011).
- Wilcox, E., Kerlin, S. Kentucky Association for Environmental Education, "Soil Activities, Get Your Hands Dirty!", Louisville, KY. (September 16-17, 2011).
- Kerlin, S., Wilcox, E. Kentucky Association for Environmental Education 2011 Conference, "Developing partnerships for expanding program capacity," Kentucky Association for Environmental Education, Louisville, KY. (September 16-17, 2011).
- Kerlin, S., Carlsen, W., Kelly, G., & Goehring, E., World Environmental Education Congress, "Students' online argumentative discussion of local and extreme environments," Brisbane, Australia. (July 19-23, 2011).
- Chavez, J., Kerlin, S., & Bennett, W., University of Kentucky STEM Symposium, "Green school learning laboratory instructional design and research plan," Lexington, KY. (April 29, 2011).
- Lorentz, C., Kannan, M., Mayfield, H., Kerlin, S., Ohio River Basin Consortium for Research and Education 2010 Conference Teacher Workshop, "River Educator Workshop," Ohio River Basin Consortium for Research and Education, Thomas More College Biology Field Station. (October 17, 2010).

- Kerlin, S., North American Association of Environmental Education 2010 Conference, "A multifaceted approach to teacher professional development in energy education," North American Association for Environmental Education, Buffalo, NY. (October 2, 2010).
- Kerlin, S., Kentucky Association for Environmental Education 2010 Conference, "Designing environmental education improvement plans," Kentucky Association for Environmental Education, Cave City, KY. (September 17, 2010).
- Kerlin, S., Goehring, E., Carlsen. 9<sup>th</sup> International Conference of the Learning Sciences (ICLS), "Online science collaborations: A comparison of domestic and international learning communities," Chicago, IL. (July 1, 2010).
- Kerlin, S., Lorentz, C., Haggard, D., Conley, A., Graham, L., Kentucky Conference on the Scholarship of Teaching and Learning, "Incorporating inquiry strategies in science classrooms," Lexington, KY. (May 26, 2010).
- Mower, T., Baust, J., Wilder, M., Bennett, B., Haight, A., Baker, C., Kerlin, S., Wilson, T., Hanley, C., Javed, K., Kentucky Association for Environmental Education 2009 Conference, "The Kentucky University Partnership for Environmental Education (KUPEE): Partners in promoting environmental literacy and advancing environmental education," Kentucky Association for Environmental Education, General Butler State Park, KY. (September 19, 2009).
- Kerlin, S., Goehring, E., Carlsen, W., Larsen, J., Fisher, C., International Conference on Computer Supported Collaborative Learning, "Design of an online global learning community: International collaboration of grades 7-9 science students," International Society of the Learning Sciences, Rhodes, Greece. (June 11, 2009).
- McDonald, S., Criswell, B., Kerlin, S., National Association for Research in Science Teaching Annual International Conference, "The impact of video analysis on the development of professional vision in pre-service and practicing teachers," National Association for Research in Science Teaching, Anaheim, CA. (April 21, 2009).
- McDonald, S., Criswell, B., DeLone, S., Kerlin, S., National Association for Research in Science Teaching Annual International Conference, "Invisible College for Inquiry Science Study (ICISS)," National Association for Research in Science Teaching, Anaheim, CA. (April 20, 2009).
- Goehring, E., Larsen, J., Kerlin, S., Simms, E., GLOBE Partner Professional Development Workshop, "From Local to Extreme Environments (FLEXE)," GLOBE, Boulder, CO. (August 3, 2008).
- Kerlin, S., McDonald, S., Kelly, G., National Association for Research in Science Teaching Annual International Conference, "Student argumentative discourse in a seismology inquiry unit," National Association for Research in Science Teaching, Baltimore, MD. (April 2, 2008).
- Kerlin, S., McDonald, S., Kelly, G., Hawaii International Conference on Education, "Mapping a science inquiry unit," Honolulu, HI. (January 7, 2008).
- Kerlin, S., Goehring, E., Larsen, J., Simms, E., Smith, M., American Geophysical Union Fall Meeting, "From Local to Extreme (FLEXE): Promoting earth systems science literacy through student inquiry and real data," American Geophysical Union, San Francisco, CA. (December 13, 2007).
- Goehring, E., Kerlin, S., Larsen, J., GLOBE Annual Conference, "Making connections between local and extreme environments: FLEXE ESSP," GLOBE, San Antonio, TX. (August 1, 2007).

## **Invited Speaker**

- Cordero, E., Kerlin, S., & Conrad, E. (2022). *Teaching Hope to the Next Generation of Climate Leaders in the School Environment*. Panel presentation at the Healthy Schools PA Summit, Virtual.
- Mayfield, H., Bergstrom, T., & Kerlin, S. Ohio River Basin Consortium for Research and Education, "Panel Discussion – K-12 Education & Outreach", Marshall University, WV. (September 27-28, 2017).
- Kerlin, S., Arscott, D., & Jackson, J. Philadelphia Environmental Centers Network, "WikiWatershed.org: Education & citizen science resources", Lambertville Station, NJ. (March 8, 2017).
- Kerlin, S., Kilpatrick, J., Schultz, E., & O'Neal, A. PA Green & Healthy Schools Forum, "Watershed Education" panel presentation, Harrisburg, PA. (February 17, 2017)
- Kerlin, S. Water Educator Network Symposium, "WikiWatershed Tools", web-enabled presentation Dillon, CO. (November 17, 2016).
- Kerlin, S., Hougham, J., Kermish-Allen, R., & Ardoin, N. North American Association for Environmental Education Annual Conference, "Current Findings: Research you can use", Madison, WI. (October 20, 2016).
- Kerlin, S. PA Department of Environmental Protection Environmental Education Grant Seminar at The Schuylkill Center for Environmental Education, "Case Study of Large Scale Environmental Education Grant: Model My Watershed," Philadelphia, PA. (September 15, 2016).
- Kermish-Allen, R., Stylinski, C., & Kerlin, S. North American Association for Environmental Education Conference, "Current Findings: Research You Can Use," San Diego, CA. (October 15-18, 2015).
- Kerlin, S. Indiana Bicentennial Nature Center Network, "Overview and Recommendations from the WI Nature Centers Collaborative," Teleconference hosted by Children of Indiana Nature Park, IN (June 17, 2015).
- Kerlin, S. UW-Stevens Point NRES 367 Park Interpretation & NRES 368 Oral Interpretation Methods Course, "WI Nature Centers Collaborative: Projects and Career Opportunities," UW-Stevens Point, WI (November 19, 2014).
- Kerlin, S. Kenton County Science Teacher Conference, "Inquiry Science Teaching," Turkey Foot Middle School, KY. (June 3, 2011).
- Kerlin, S. Northern Kentucky University ENV 115: Careers in Environmental Science, "Careers in Environmental Education," NKU, KY. (December 7, 2009 & September 1, 2010).
- Kerlin, S. Math and Science Upward Bound – Penn State University, "Careers in Science Education," State College, PA (July 11, 2007).

## **Workshops & Training Events Led**

- Weatherhead, A., Kerlin, S., Kelly, R. "PA Meaningful Watershed Educational Experience Ambassador Training." John Heinz National Wildlife Refuge, PA. (October, 28, 2022).
- Kerlin, S., Muenz, T., Kline, D., & Mohapp, S. Downingtown Area School District Secondary Science Teacher In-service, "Meaningful Watershed Educational Experiences and Watershed Education Field Studies," Downingtown, PA. (August 24, 2022).

Kerlin, S., Mohapp, S., Niedermeier, M., Scovens, K., Peffer, T., Quitel, S. "Teacher Training Institute for School District of Philadelphia After-school Environmental and Outdoor Education Clubs," Stroud Water Research Center, John Heinz National Wildlife Refuge, and Lankenau High School, PA. (August 9-11, 2022).

Muenz, T., & Kerlin, S. "Developing Outdoor Learning Spaces," Stroud Water Research Center, PA. (August 3, 2022).

Kline, D., Staudt, C., Kerlin, S. & Oviedo-Vargas, D. NSF ITEST WATERS grant project, "PA Cohort WATERS Teacher Training," Stroud Water Research Center, PA. (July 26-29, 2022).

Kerlin, S., & Mohapp, S. "PA Certified Meaningful Watershed Educational Experiences (MWEE) Ambassador Training." Rustin High School, PA. (June 23, 2022).

Muenz, T., Kerlin, S., & Mohapp, S. "Lancaster Outdoor Learning Network Initiative (ONLI) Teacher Professional Development." Stroud Water Research Center, PA. (June 22, 2022).

Kerlin, S., Muenz, T., & Johnston, C. "Educator Hidden Gem Canoe Workshop: Discover the White Clay Creek!" White Clay Creek, PA (May 14, 2022)

McCool, E. & Kerlin, S. "PA Certified Meaningful Watershed Educational Experiences (MWEE) Ambassador Training for School Administrators." Green Lane Park, PA. (May 13, 2022).

Kerlin, S., James, S., & Peipoch, M. "Educator Hidden Gem Canoe Workshop: Discover Octoraro Reservoir!" Octoraro Reservoir, PA. (April 30, 2022).

Kerlin, S. & Sheeler, R. Master Watershed Stewards – Bucks County, "Water Chemistry Monitoring Training," Nockamixon State Park, PA. (September 21, 2017).

Kerlin, S. & Sheeler, R. Stream to Sky Secondary Teacher Workshop, "Water Education Activities," Millersville University Watershed Education Training Institute, PA.. (September, 20, 2017).

Kerlin, S. & O'Donnel, V. West Chester School District In-service, "Stroud Center Education Activity Sampler," East high School, PA. (August 23, 2017).

Kerlin, S., Bressler, D., Wiley, C., Titora, J., McFadden, K., & Egner, T. Stroud Water Research Center Education Programs, "Engaging in Stream & Restoration Monitoring Activities," Avondale, PA. (August 8, 2017).

Kerlin, S. Stroud Water Research Center WikiWatershed Toolkit Webinar Series, "WikiWatershed Toolkit for Educators," Avondale, PA. (October 12, 2016).

Kerlin, S. Upstream Philly Cluster Meeting, "Model My Watershed," Temple University Ambler Campus, PA. (August 14, 2016).

Kerlin, S., "Project Wild Curriculum Training," NKU Center for Environmental Education, Northern Kentucky University. (March, 2012).

Kerlin, S., "Project Wild Curriculum Training," NKU Center for Environmental Education, Northern Kentucky University. (April 20 & 27, 2011).

Wilcox, E., Kerlin, S., Jacobs, M., "Split Rock Conservation Park Educator Workshop," NKU Center for Environmental Education and Wildlife Conservation Kentucky, Inc., Camp Michaels, BSA. (March 19, 2011).

Kerlin, S., Crowley, E., The Ultimate Educator EXPO, "NKU EE Activity Resources for Teachers," Greater Cincinnati Environmental Educators, Cincinnati Zoo. (September 14, 2010).

Kerlin, S., Baker, C., The Ultimate Educator EXPO, "NKU Center for EE: Resources and professional development," Greater Cincinnati Environmental Educators, Cincinnati Zoo, OH. (September 15, 2009).

Larsen, J., Kerlin, S., Hardy, P., Australia FLEXE Teacher Training, "The FLEXE Project: From Local to Extreme Environments," Footscray City College, Australia. (January 20, 2009).

Goehring, E., Larsen, J., Kerlin, S., Thailand FLEXE Teacher Training, "The FLEXE Project: From Local to Extreme Environments," Bangkok, Thailand. (January 14, 2009).

Goehring, E., Kerlin, S., Smith, M., U.S. FLEXE Teacher Training, "FLEXE: From Local to Extreme Environments," FLEXE, Online. (December 4, 2008).

Kerlin, S., CSATS Teacher Workshop, "From Local to Extreme Environments," Center for Science and the Schools, State College, PA. (April 5, 2008).

## **Funded Projects - Grants, Contracts, & Corporate & Private Donations**

### **Grant/Project Management and Project Contributor Role as Director of Education Department at the Stroud Water Research Center**

2018 Annual budget management for Education Department: \$601,838 across 29 funded projects in addition to management of yearly endowment, product revenue, and program revenue.

2017 Annual budget management for Education Department: \$562,649 across 38 funded projects in addition to management of yearly endowment, product revenue, and program revenue.

2016 Annual budget management for Education Department: \$601,434 across 34 funded projects in addition to management of yearly endowment, product revenue, and program revenue.

### **Principal Investigator or Co-Principal Investigator**

Kerlin, S. Daniels, M., & Oviedo-Vargas, D. "Watershed Awareness using Technology and Environmental Research for Sustainability (WATERS)", National Science Foundation, \$390,535. (April 15, 2019 – March 31, 2022).

Kerlin S., Myers, G., Pittman, J., Cope, S., Longo, C., & Marcum-Dietrich, N. "Pennsylvania Environmental Literacy and MWEE Programming Capacity Building", National Oceanographic and Atmospheric Administration, \$298,877. (July 1, 2017 – June 30, 2020).

Arcscott, D., Kerlin, S., & Aufdenkampe, A. "WikiWatershed: A web toolkit for advancing water quality restoration in the Delaware River Basin", William Penn Foundation, \$1,594,000. (January 16, 2017 – August 31, 2019).

Kerlin, S. & Daniels, M. "Collaborative Research: Teaching Environmental Sustainability – Model My Watershed", National Science Foundation, \$1,588,886. (September 1, 2014 – August 31, 2019).

Kerlin, S., Hougham, J. & Swatek, C. "WAEE Environmental Education Consortium", North American Association for Environmental Education, EE Capacity & U.S. Environmental Protection Agency, \$10,000 + \$9,000 supplemental travel grant. (September 2015 – December 2016).

Kerlin, S. & Burns, K. "Interdisciplinary Honors Intern Program for Land Management at Nature Centers", UWSP Career Services, \$6,000. (August 2015 – June 2016).



- Kerlin, S. & Petz, M. "Promotion and Implementation of the Wisconsin Food Systems Education Conceptual Framework", UW-Extension Community Food System Team Mini-grant, \$1,786. (August 2015 – October 2016).
- Kerlin, S. & Burns, K. "Conserve School Land Management Services: Forest Inventory, GIS Data Analysis and Teacher Training", Contract with Conserve School, \$8,021.00. (January 2015 – November 2015).
- Kerlin, S. & Burns, K. "Land Management at Crossroads at Big Creek & Internship", Contract with Crossroads at Big Creek, Inc., \$6,500. (May - August 2015).
- Kerlin, S. & Burns, K. "Interdisciplinary Honors Intern Program for Land Management at Nature Centers", UWSP Career Services and College of Natural Resources, \$9,000 (\$5,000 from UWSP Career Services and \$4,000 from College of Natural Resources). (October 2014 – June 2015).
- Kerlin, S., Liddicoat, K., Franzen, R., & Solin, J. "Expansion of Mobile Technology to Enhance Field-Based Learning", UW-Stevens Point College of Natural Resources Intra-College Software/Technology Mini-grant, \$3,500. (November 2014 – June 2015).
- Kerlin, S. "Forestry Education Professional Development and Collaborations of WI Nature Centers", Wisconsin Environmental Education Foundation Grant, \$2,100. (October 2014 – December 2015).
- Kerlin, S. & Burns, K. "Development of Land Management Plans and Implementing Management Practices at WI Nature Centers", Renewable Resources Extension Act FY 2015 Grant, \$8,000, increased by an additional \$2,460.45 in May 2015. (October 2014 – June 2015).
- Kerlin, S. & Burns, K. "Land Management & Internship", Ida Bay Forest at Crossroads at Big Creek, \$1,500. (August 2014).
- Kerlin, S., Liddicoat, K., & Franzen, R., "Mobile Apps to Enhance Outdoor Learning", UW-Stevens Point College of Natural Resources Intra-College Software/Technology Mini-grant, \$2,850. (October 2013 – June 2014).
- Kerlin, S. & Burns, K., "Assisting WI Nature Centers in Development of Land Management Plans and Implementing Management Practices", Renewable Resources Extension Act FY 2014 Grant, \$7,115.46 (Originally funded at \$6,000 then awarded additional funding of \$1,115.46). (September 2013 – May 2014).
- Kerlin, S., Brown, E., Schram, J., Larson, N., Perryman-Gebhardt, K., & Anderson, S. (Co-leaders). "WI EE Capacity State Consortia", EE Capacity Grant from NAAEE/Cornell University/EPA, \$30,000 + \$6,000 supplemental travel grant. (October 2013 – December 2014).
- Kerlin, S. (PI), Bennett, W., Wilder, M., Javed, K., Reeder, B., Haight, A., Baust, J., Wilson, T., & Lorentz, C. (Co-Investigators). "Increasing the Number of Qualified STEM Educators Through the Use of the Interdisciplinary STEM Theme of the Environment", NASA Space Grant College and Fellowship Program, Space Grant Innovative Pilot in STEM Education, \$497,990. (July 2013 – June 2015). *Note: Awarded this grant but left it with the Co-Investigators and transferred implementation to them when I joined UW-Stevens Point in July 2013. Changed role from PI to external evaluator as a consultant and secured as PI and managed a sub-award to UWSP for an undergraduate student to assist with the external evaluation for \$2,041.39.*
- Kerlin, S., Santos, R., & Hillard, J., "Northern Kentucky University Center for Environmental Education Strategic Planning and Sustainable Operations", Kentucky Environmental Education Council Pride Fund Grant, \$16,785. (July 2013 – June 2014). *Note: Awarded this grant but left it at NKU*

*and transferred implementation to Miss Santos and Dr. Hillard. Continued to act as consultant on grant in advisory role to develop new strategic plan.*

Durtsche, R. (PI), & Kerlin, S. (Co-PI), "P3 Water Grant", Environmental Protection Agency P3- People, Prosperity and the Planet Award Program, \$15,000. (July 2013 – June 2014). *Note: Awarded this grant but left it at NKU and transferred implementation to Dr. Durtsche as the PI when I joined UW-Stevens Point in July 2013.*

Kerlin, S., "Teacher Professional Development in Understanding and Using Green Technology as Learning Tools", SB1 Mini-Grant 2013, \$5,000. (February 2013 – June 2013).

Kerlin, S., "Environmental Education Programs in Boone County Parks", Memorandum of Agreement with Boone County Parks and Recreation, \$10,000. (April 2012 – June 2013).

Kerlin, S., "Embracing Technology in Science Teaching and Learning," NKU College of Education and Human Services Mini-grant, \$9,959. (January - June 2012).

Kerlin, S., "School and Field Based Environmental Education," AT&T Foundation, \$22,000. *Awarded December 5, 2011.*

Kerlin, S., "NKU Center for Environmental Education Expansion Project," Lafarge Drywall Manufacturing, \$1,000. *Awarded August 22, 2011*

Kerlin, S., "NKU Center for Environmental Education Expansion Feasibility Study," NKU SEED Grant, \$2,000. (July 1, 2010 – June 30, 2012).

Kerlin, S., "Research and Evaluation of FLEXE Project," National Science Foundation FLEXE ESSP Subcontract from Penn State University, \$32,029. (July 1, 2010 – June 30, 2013).

Kerlin, S., "Environmental Education & Stewardship: A Partnership Between NKU Center for Environmental Education and Split Rock Conservation Park," 2010 NKU University & Community Partnership Grant, \$12,500. (July 1, 2010 – June 30, 2012).

Kerlin, S., "Natural Disasters Activities Trunks and updating of existing activity trunks for loan to teachers," Subcontract from NKU Center for Civic Engagement, Learn and Serve America Grant, \$1,500. (April 1, 2010 – June 30, 2010).

Kerlin, S., "Energy Education," NASA AESP National Space Grant Foundation, Federal, \$33,669. (March 1, 2010 – June 30, 2011).

Kerlin, S., "KEEC & NKU Center for Environmental Education," Education and Workforce Development Cabinet, Kentucky Environmental Education Council, \$21,247. (December 30, 2008 - June 30, 2010).

## **SERVICE**

### **Professional Service**

#### **Professional Activities**

Pennsylvania Advisory Council for Environmental Education, Pennsylvania Department of Education (April 2019 – Present).

Co-Strand Leader for Research-based Practice in EE Strand, 2019 North American Association for Environmental Education (NAAEE) Conference (March – October 2019).

Co-Strand Leader for Research-based Practice in EE Strand, 2018 North American Association for Environmental Education (NAAEE) Conference (March – October 2018).

Co-Strand Leader for Research-based Practice in EE Strand, 2017 North American Association for Environmental Education (NAAEE) Conference (March – October 2017).

Co-Strand Leader for Research-based Practice in EE Strand, 2016 North American Association for Environmental Education (NAAEE) Conference (March – October 2016).

Strand Leader for Research-based Practice in EE Strand, 2015 North American Association for Environmental Education (NAAEE) Conference (March – October 2015).

Coordinator of Continuing Education Units for 2015 North American Association for Environmental Education (NAAEE) Conference, Wisconsin Center for Environmental Education in partnership with UWSP Continuing Education and NAAEE. (April – December 2015).

Coordinator of Continuing Education Units for 2014 North American Association for Environmental Education (NAAEE) Conference, Wisconsin Center for Environmental Education in partnership with UWSP Continuing Education and NAAEE. (August – December 2014).

Visioning Team Member (1 of 5 invitees) for North American Association for Environmental Education (NAAEE) planning for an NAAEE professional development academy and recognition program for professionals. (July 2014).

Conference Planning Committee, Midwest Environmental Education Conference 2015. (August 2014 – October 2015).

MEEC Program and Proposal Selection Committee, Midwest Environmental Education Conference 2015 (January – October 2015).

Conference Proposal Reviewer, Wisconsin Association for Environmental Education 2014 Annual Conference. (March 2014).

Conference Planning Committee. Wisconsin Association for Environmental Education 2014 Annual Conference. (October 2013 – August 2014).

Northern Kentucky University, Center for Environmental Education Advisory Board. (July 2013 - June 2015).

Pre-Workshop Planning Committee, Technology to Empower Citizen Scientists - US Environmental Protection Agency invitation only workshop. (January – March 2013).

Conference Proposal Reviewer, National Association of Research in Science Teaching Conference. (September 2012).

Conference Proposal Reviewer, North American Association for Environmental Education Conference. (April 2014, May 2012).

Conference Proposal Reviewer, North American Association for Environmental Education Research Symposium. (April 2014, May 2012).

Conference Planning Committee, Campus Community Partnership for Sustainability Conference. (March – November 2011).

Eastern Kentucky University Biology Field Station Planning Team, University Curriculum Task Group. (September 2010 – June 2013).

Conference Planning Committee, Ohio River Basin Consortium for Research and Education. (January 2010 – October 2010).

Manuscript Reviewer, *Science Education Journal*. (March 2007, October 2009, March 2010, September 2010, March 2011).

### **Consulting**

Grant Proposal Reviewer, “REU Site: Early Career Development of Associate Degree Students in Green Chemistry: REU Summer Research at Millersville University”, Millersville University grant proposal to the National Science Foundation. (July – August, 2016).

External Evaluator, “Increasing the Number of Qualified STEM Educators Through the Use of the Interdisciplinary STEM Theme of the Environment”, NASA Space Grant College and Fellowship Program, Space Grant Innovative Pilot in STEM Education. (July 2013 – June 2015). Design, implementation, analysis and reporting of external evaluation measures of this NASA grant collaboration of seven institutions and centers for environmental education in Kentucky.

Strategic Planning Consultant, “Northern Kentucky University Center for Environmental Education Strategic Planning and Sustainable Operations”, Kentucky Environmental Education Council Pride Fund Grant. (July 2013 – June 2014). Consulting services providing historical knowledge and strategic planning considerations.

Kenton County School District Science Teacher Conference, (July 31, 2012). Workshop instructor. “Maximizing Student Learning in Investigative Activities.”

Eastern Kentucky University, Energy Education Curriculum Project funded by the KY Energy Cabinet. (Fall 2010). Collaborated with project directors and other consultants to formulate recommendations for the design and implementation of this project.

Kenton County School District Science Teacher Conference, (June 3, 2011). Assisted and planning this conference for all middle and secondary science teachers in the school district. Was the invited keynote speaker on Inquiry Science Teaching.

EdGE @ TERC, Cambridge, MA, approximately 24 hours spent for the year. (October 26, 2010 - November 24, 2010). Reviewed participants’ posts to a pilot educational game for understanding of science inquiry and content.

### **University of Wisconsin System and UW-Stevens Point University**

Search and Screen Committee Member, Program Director position search, UW-Extension Upham Woods Outdoor Learning Center (Spring 2015).

Contributing section writer of UW-Stevens Point application for recognition as a U.S. Department of Education Green Ribbon School (Submitted December 2014). Awarded special commendation on Earth Day 2015 from Wisconsin Post-Secondary Green Ribbon Award Nominating Committee.

Vibrant Communities Ad-hoc Committee, Strategic Planning Advisory Committee (January - May 2014).

Volunteer Adventure Trip Guide, Outdoor EdVentures (July 2013 – 2014).

### **College of Natural Resources**

Property Management Committee (January 2014 – December 2015).

Human Dimensions of Natural Resource Management Discipline Committee (July 2013 – December 2015).

Environmental Education/Interpretation and Youth Programming/Camp Administration Options Sub-Committee of HDNRM (July 2013 – December 2015).

Search and Screen Committee Member, Wisconsin Center for Environmental Education Director position search, College of Natural Resources and UW-Extension (Spring 2015).

Kerlin, S., Franzen, R., & Liddicoat, K. UWSP CNR Faculty/Staff Workshop, "Field-based Applications for the iPad," UWSP, (May 4, 2015).

Scholarship Review Committee Member for Clive A. David Memorial Research Scholarship Award (Spring 2015).

Kerlin, S., Champeau, R., & Isermann, D. UWSP CNR Faculty/Staff Start of Academic Year Professional Development Meeting, "Panel Discussion– Extramural Grants," CWES. (August 8, 2014).

Kerlin, S., Franzen, R., Lackey, B., Liddicoat, K., Kacoroski, J., & Buchholz, J. UWSP CNR Faculty/Staff Workshop, "Field Friendly Apps to Enhance Outdoor Education," UWSP, December 12, 2014).

Contributing faculty member to successful submission of UWSP College of Natural Resources Undergraduate Environmental Education Program Accreditation. This program is now 1 of 4 in the country to be awarded this accreditation from the North American Association for Environmental Education. (June – August 2014).

### **Public Engagement with Stakeholders (Extension & Outreach)**

Creator and Facilitator, WI Nature Centers Collaborative, UW-Extension and Wisconsin Center for Environmental Education initiative to assist the 137 WI nature centers in collaborating and improving the quality and quantity of environmental education in WI, compiled and manage inventory and network communications of 698 environmental education and outdoor education related organizations in WI (July 2013 – December 2015).

Planner, Facilitator and/or Presenter, WI Nature Centers Collaborative, Wisconsin Regional Networking and Professional Development Events for Nature Centers and Related Organizations

Northeast Wisconsin Naturalist Association (NEWNA) Region Networking and Professional Development Event at Apple Creek YMCA – presenter and contributing funder (August 28, 2015).

Eau Claire Region Networking & Professional Development Event at Carpenter Nature Center and Great River Road Visitor Center – Planner, facilitator, presenter, & funder (September 25, 2015).

Northwoods Region Networking & Professional Development Event at Northern Great Lakes Visitor Center – Planner, facilitator, presenter, & funder (August 6, 2015).

Greater Milwaukee Region Networking & Professional Development Event at Mequon Nature Preserve - Planner, facilitator, and presenter (May 21, 2015).

Eau Claire Region Networking & Professional Development Event at Beaver Creek Reserve – Planner, facilitator, and presenter (March 25, 2015).

Northeast Wisconsin Naturalist Association (NEWNA) Region Networking and Professional Development Event at Bay Beach Wildlife Sanctuary – presenter and contributing funder (February 27, 2015).

Nature Net Region Networking & Professional Development Event at Aldo Leopold Nature Center – presenter (February 25, 2015).

Inquiry-based Teaching & Learning at Nature Centers, daylong workshop for 29 naturalists at Riveredge Nature Center – Planned and lead workshop with Ray Scolovino (UW-Milwaukee) (January 14, 2015).

Central Region Networking and Professional Development Event at Central Wisconsin Environmental Station – Planner, facilitator, and presenter (December 5, 2014)

South Central Wisconsin Region Networking and Professional Development Event at Community Groundworks – Planner, facilitator and presenter (October 3, 2014)

Northeast Wisconsin Naturalist Association Networking and Professional Development Event at Navarino Nature Center – Presenter (August 29, 2014)

#### Site Consultations and Partnership Site Visits

Cable Natural History Museum, Upham Woods Outdoor Learning Center, Aldo Leopold Nature Center, Olbrich Botanical Gardens, Conserve School, North Lakeland Discovery Center, Easter Seals Camp Waubeek, Carpenter Nature Center, Great River Road Visitor Center, Northern Great Lakes Visitor Center, Central Wisconsin Environmental Station, Schmeeckle Reserve, Treehaven Field Station, Crossroads at Big Creek Nature Center, Apple Creek YMCA (July 2015 – December 2015)

Mequon Nature Preserve, Beaver Creek Reserve, Bay Beach Wildlife Sanctuary, Jack Day Environmental Center at New Water, Upham Woods Outdoor Learning Center, Schlitz Audubon Nature Center, Urban Ecology Center, Conserve School, North Lakeland Discover Center, Aldo Leopold Nature Center, Rib Mountain State Park, Community Groundworks, Central Wisconsin Environmental Station, Treehaven Field Station, Schmeeckle Reserve, Navarino Nature Center (July 2014 – June 2015).

Aldo Leopold Nature Center, Treehaven Field Station, Upham Woods Outdoor Learning Center, Central Wisconsin Environmental Station, Schmeeckle Reserve, Community Groundworks, Schlitz Audubon Nature Center, Woodland Dunes Nature Center, Pine Lake and Lake Lucerne Methodist Camps, Beaver Creek Reserve, North Lakeland Discovery Center, Riveredge Nature Center, Crossroads at Big Creek Nature Center, Wehr Nature Center, Meade Department of Natural Resources Wildlife Area (July 2013 – June 2014).

Program Manager, Land Management at Nature Centers and Camps, managed outreach land management consulting services, mentored UWSP forestry and education students with Mr. Kevin Burns (Treehaven Forest Ecologist), oversight of site-based land management practices and associated GIS products and land management plans and recommendations.

Conserve School, Upham Woods Outdoor Learning Center, Crossroads at Big Creek Nature Center, Central Wisconsin Environmental Station (Fall 2015).

Crossroads at Big Creek Nature Center, Riveredge Nature Center, Upham Woods Outdoor Learning Center, Conserve School (Fall 2014 – August 2015).

Riveredge Nature Center, Schlitz Audubon Nature Center, Woodland Dunes Nature Center, Upham Woods Outdoor Learning Center, Central Wisconsin Environmental Station, Pine Lake and Lake Lucerne Methodist Camps, North Lakeland Discovery Center, Outagamie County Parks, Crossroads at Big Creek Nature Center (Fall 2013 – Summer 2014).

Principal Investigator and Co-leader, WI Environmental Education State Consortium to increase the capacity of EE in WI (September 2013 – 2015). Budget management, evaluation and reporting, planned 6 stakeholder meetings, facilitated discussions to identify and act on four state-wide initiatives – Marketing & Message, Digital Presence, Networking & Professional Development, and Including and Reaching Diverse Audiences.

Exhibitor, Connect with Environmental Education in Wisconsin – promotion of 700 environmental and outdoor education organizations, UW-Extension Day at the WI State Fair (August 11, 2015).

Exhibitor, Connect with Environmental Education in Wisconsin – promotion of 700 environmental and outdoor education organizations, Canoecopia (March 13-15, 2015).

Exhibitor, Connect with Environmental Education in Wisconsin – promotion of 700 environmental and outdoor education organizations, Wisconsin Society of Science Teachers Conference (March 5-6, 2015).

#### **Board Member**

Upham Woods Outdoor Learning Center, UW Extension 4H, Advisory Board. (August 2013 – December 2015).

Wisconsin Association for Environmental Education, Elected Member of Board of Directors. (January 2014 – December 2015).

#### **Public/Community Outreach**

North Central Conservancy Trust, events and property monitor volunteer (July 2013 – December 2015).

Community Participant, Portage County Groundwater Summit (April 29, 2015).

Participant, Conservation Café, WI Department of Natural Resources revision of Wildlife Action Plan and Fish, Wildlife and Habitat Management Plan (November, 3, 2014).

#### **Northern Kentucky University University**

Environmental Stewardship Institute, began as Regional Environmental Stewardship Initiative Committee. Co-chair. (December 2012 – June 2013).

Biological Field Station Strategic Planning Committee. (October 2011 – June 2013).

Study Abroad Scholarship Review Committee. (January - May 2012).

University President's Climate Change Task Force. (January 2011 - June 2013).

Faculty Panelist for Best Practices in Active Learning. (March 18, 2011).

Earth Week 2012 Planning Committee. (January-April, 2012).

Earth Week 2011 Planning Committee. (January-April, 2011).

Faculty Advisor, Center for Integrative Natural Science and Mathematics - Environmental Education and Science Teacher Alliance. (October 1, 2009 - June 2013).

Faculty Co-Advisor, Environmentally Concerned Organization of Students (ECOS). (August 2010 – June 2013).

International Teaching Fellows Advisor, NKU ILEP. (Spring 2010, Spring 2011)

### **College and Department**

Search Committee for Elementary Science Education Tenure Track Faculty. (October 2012 - December 2012).

Search Committee for Elementary Science Education Tenure Track Faculty. (November 2011 - June 2012).

Search Committee for Elementary Science Education Tenure Track Faculty. (November 2010 - May 2011).

Advisor: Masters of Arts in Education: Teacher as Leader Advisor, approximately 21 graduate students per academic year. (2009 - June 2013).

Continuous Assessment/NCATE Programs Committee, Middle Grades Program Representative. (2010 - 2011).

Continuous Assessment/NCATE Programs Committee, Secondary Program Representative. (2010 – 2011).

Indirect Costs Committee. (2010 – June 2013)

Middle Grades Program Team. (2009 – June 2013).

Secondary Program Team. (2009 – June 2013).

Scholarship Team. (2009 - 2010).

Faculty Peer Review Committee. (Fall 2011- Spring 2012, Fall 2010).

### **Board Member**

Wildlife Conservation Kentucky, Inc. 501(c)(3), Executive Board. (May 2011 – June 2013).

Greater Cincinnati Environmental Educators, Executive Board. (April 2010 - June 2013).

Greater Cincinnati Environmental Educators, Professional Development Committee Chair. (April 2010 – June 2013).

Northern Kentucky University, Center for Environmental Education Advisory Board. (August 2009 - June 2013).

### **Public/Community Outreach**

NKU Center for Environmental Education Community and P-12 Outreach Programs (August 2009 – June 2013).



NKU/Turkey Foot Green Team: Curriculum Development Committee. (August 2010 – June 2013).

Wildlife Conservation Kentucky, Inc. / NKU Center for Environmental Education Partnership for Environmental Education. (January 2010 – June 2013).

Duke Energy / NKU Center for Environmental Education Partnership. (June 2010 – June 2013).

## **Additional Development & Training Activities Attended**

Recognizing and Reporting Child Abuse: Mandated and Permissive Reporting in Pennsylvania Online Training, University of Pittsburgh (2017).

Youth Protection Training, Boy Scouts of America (2016, 2017).

Preventing Discrimination and Sexual Violence: Title IX, VAWA and Cleary Act for Faculty and Staff Training, University of Wisconsin-Stevens Point (December 16, 2015).

Unlawful Harassment Prevention for Higher Education Faculty, University of Wisconsin-Stevens Point (December 16, 2015).

Train Your Board to Raise Money, Andy Robinson trainyourboard.com, pre-conference workshop at the North American Association for Environmental Education (October 14, 2015).

GEP Assessment Workshop, University of Wisconsin-Stevens Point (June 12, 2015).

Grant-Seeking Workshop, University of Wisconsin-Stevens Point (April 9, 2015).

Desire 2 Learn: Quizzes Training, University of Wisconsin-Stevens Point (March 30, 2015).

UW-Extension CNRED/FLP Conference (October 28-29, 2014).

State Affiliates Training Meeting at North American Association for Environmental Education Conference (October 8, 2014).

EE Capacity National Training Workshop at North American Association for Environmental Education Conference (October 7, 2014).

Desire 2 Learn Ignite: Regional User Forum, University of Wisconsin System (November 8, 2013).

UW-Extension Community, Natural Resources and Economic Development Symposium and Colloquium (October 29-30, 2013).

EE Capacity National Training Workshop at North American Association for Environmental Education Conference (October 9, 2013).

Quest/New Employer Training Workshop at UWSP (August 16, 2013).

Payroll Training Workshop at UWSP (September 11, 2013).

Adobe CQ WEM - Web Content Management System Workshop at NKU (August 10, 2012).

Study Abroad Course Shadowing, Environmental Sustainability Course in Bregenz, Austria (July 6-15, 2012).

Blackboard Collaborate Individual Training at NKU (January 27, 2012).

SAP Advanced Budget Reporting Individual Training at NKU (June 5, 2011).

Finding Funders Training, Foundation Database Workshop at NKU (October 27, 2010)

Grant Post Award Overview Training Workshop at NKU (October 13, 2010)

Online Course Training – Summer Faculty Institute 1 at NKU (May 18-20 & 24, 2010)

Academic Advising Tab Training Departmental Training at NKU (March 16, 2010).

PI Financial Aid Recipients Report Training Seminar at NKU (February 24, 2010).

Serena Collage – Advanced Workshop by ITSC at NKU (November 23, 2009).

Grant PI Reporting Workshop by ITSC at NKU (November 20, 2009).

Student Hiring Training Workshop at NKU (November 18, 2009).

Efficiently Searching for External Funding Seminar by NKU Research, Grants, & Contracts Office (October 28, 2009).

Orientation to NKU External Grant Proposal Development and Submission Seminar by NKU Research, Grants, & Contracts Office (September 21, 2009).

Serena Collage – Basics Workshop by NKU ITSC (September 3, 2009).