

Curriculum Vita of Teddie Phillipson-Mower

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EDUCATION

- 2008 Ph.D. Candidate, Curriculum & Instruction. Indiana University (Bloomington, IN)
Emphasis Area: Biology. Minor: Environmental Education.
Dissertation: *The relationship of intellectual and ethical development and views of the nature of science in undergraduate biology majors.*
- 2000 M.A.T. Major: Biology. College of Arts and Sciences, Indiana University, (Bloomington, IN)
- 1989 B.S. Pre-Medicine and Secondary Education. Major: Biology. Minors: Chemistry and Sociology. Northern Michigan University (Marquette, MI)
- 1985 Associates of Arts and Sciences, Associates of General Studies, Associates of Technology. Ft. Steilecoom Community College (Tacoma, WA)

AWARDS AND RECOGNITION

- 2004 Project WILD recognition for service
- 2003 Teaching and Research Award and Travel Grant, American Society of Microbiology.
- 1999 Teaching Excellence Recognition Award, College of Arts and Sciences, Indiana University, Faculty Award

PROFESSIONAL EXPERIENCE

- 2006 - Co-Director for the Center for Environmental Education. Kentucky Institute for Sustainable and Environmental Development, University of Louisville (Louisville, KY)
- 2006 - Facilitator, Environmental Education Committee, The Louisville Partnership for a Green City (Louisville, KY)
- 2005-2006 Program Coordinator: Secondary Science and Environmental Education Program, Indiana University, Department of Curriculum & Instruction. (Bloomington, IN)

- 2004-2005 Program Coordinator: Saturday Science QUEST for Kids Program. Secondary Science and Environmental Education, Indiana University, (Bloomington, IN)
- 2000-2005 Associate Instructor: Secondary Science and Environmental Education Program, Indiana University Department of Curriculum & Instruction. (Bloomington, IN)
- 1999-2004 Course Instructor: Biology Department, College of Arts and Sciences, Indiana University (Bloomington, IN)
- 1999-2002 Associate Instructor: Biology Department, College of Arts and Sciences, Indiana University (Bloomington, IN)
- 1999-2000 Professional Coordinator: Council for Environmental Stewardship (CFES) of Indiana University (Bloomington, IN)
- 1995 Biology Department, College of Arts and Science, University of Minnesota, (Duluth, MN)
- 1989-1994 Pharmaceutical Representative: Merck and Company. Westpoint, Pennsylvania.

TEACHING EXPERIENCE

K-12 Teaching

- 1996-1997 Biology Teacher: General Biology and Basic Biology (for at-risk students). South Vigo High School. Vigo County School Corporation, Terre Haute, IN.
- 1995-1996 Biology long term substitute positions. General biology, botany, advanced placement. Duluth Public Schools, Duluth, MN.
- 1988-1989 Substitute Teaching and Student Teaching experience. Middle school, eighth grade physical and life science. High School, biology.

College/University Level Instruction

- 2006 - Instructor: Department of Teaching and Learning, College of Education and Human Development, University of Louisville (Louisville, KY)

EDTP 301: General Methods

This course encourages teachers to challenge and support all students. This course will familiarize students with a variety of curricular and instructional strategies to meet the needs of a diverse group of students. It will also familiarize students with content enhancement strategies, models of teaching, Multiple Intelligences, learning styles, approaches to classroom management, lesson planning, and assessment and serve as a foundation for the content-specific methods courses.

EDTP 324: Science Methods P-5

This course examines the instructional methods and curricular materials appropriate for teaching the concepts and skills of science in grades P-5. It is based on the best practices of teaching as outlined in the *National Science Education Standards*, the *Kentucky New Teacher Standards* and the *Kentucky Core Content for Assessment*.

EDAP 694: Introduction to Environmental Education

This graduate course examines the philosophical, historical, curricular, and instructional issues pertaining to the environment and the concept of sustainable development and relates these to outcomes based education.

2005-2006

Visiting Faculty: Secondary Science and Environmental Education Program, Curriculum and Instruction, School of Education, Indiana University (Bloomington, IN)

M446/Q506/Q515 Methods of Teaching Secondary Science

This course was comprised of both undergraduate and graduate students from traditional certification programs as well as two alternative programs (Community of Teachers and Transition to Teaching) who plan to teach biology, chemistry, earth science, general science, or physics in the junior high/middle school or secondary school.

M346/M546 Exploring Methods of Teaching Secondary Science

An introduction to the study of teaching science included a review of the issues currently surrounding science teaching, observation/participation in a local middle or secondary school, and assisting either a student or practicing teacher. Five key focal points are inquiry, writing objectives, productive questioning, integrating standards, and assessment.

M411/M511 Laboratory/Field Experience: Secondary Science Methods

Seminar and field experiences in middle or secondary school science classes for graduate and undergraduate students concurrently enrolled in methods coursework. Emphasis was on reflection and peer review.

Q540 Teaching Environmental Education

A graduate-level methods course for practicing teachers and doctoral students focusing on integration of environmental education in the K – 12 classroom and in the undergraduate pre-service teacher curriculum.

Q590 Independent Research

Supervised graduate students in independent projects.

- Kristen Obarsky worked as an Environmental Education Intern for the Council for Environmental Stewardship. Her project(s) include

revising the Indiana University Environmental Course Handbook and research into the use of pesticide use on campus.

- Taryn Chaifetz, now employed as an Aquarium Educator at the Santa Monica Pier Aquarium, is documenting her learning experiences and professional growth in her authentic context through a portfolio.
- Peter Huff developed a mission statement and “Constitution” for a student led Council for Environmental Stewardship and brought student, staff and faculty organizations together to discuss how they could collaborate to advance environmental literacy on campus.

2000- 2004 Associate Instructor (graduate student) Positions: Science and Environmental Education, Department of Curriculum and Instruction, Indiana University, Bloomington, IN.

E328 Science in the Elementary School

(two sections – Fall 2004; two sections Spring 2002, two sections Fall 2002)

This is the first cluster of professional education courses for elementary pre-service teachers. It is grouped with Mathematics in the Elementary School and is accompanied by a field experience component. The emphasis of this course is on developing appropriate instructional skills and strategies for teaching elementary science. Themes include how children learn science, current methods of instruction in science, assessment of science skills and knowledge, and national standards for science education.

Q200 Introduction to Scientific Inquiry

(One section spring 2001, two sections fall 2000)

This course provides the elementary education major with background in the Science process skills needed to complete their required science courses.

1999- 2000 Biology Department, College of Arts and Sciences, Indiana University, Bloomington, IN.

M375 Human Clinical Parasitology

(Spring 2002, spring 2000).

My responsibilities included both lecture and laboratory. Biology of human parasites focusing on their etiology, epidemiology, immunology, diagnosis, and treatment. Major groups of protozoa, helminthes, and medically important arthropods are covered. Lab presents both live and fixed materials complementing lectures.

B352Fungi – B352

(Summer 2002, summer 2000).

My main responsibilities were for the laboratory portion of the class. The students were of junior or senior standing. Course emphasis was on laboratory and field studies of fungi and their activities.

B104 Controversial Issues in Biology

(Fall 1999)

Lecture and intensive writing course. Students review, critique, and draw conclusions from the primary scientific literature on which the popular press may make unfounded, spectacular claims.

1999-2004 Course Instructor: Biology Department College of Arts and Sciences, Indiana University (Bloomington, IN)

M250 Introduction to Microbiology

(Summer 2004)

This course applies the fundamental principles of biology to the study of microorganisms. The significance of microorganisms to humans and their environment is emphasized.

M375 Human Clinical Parasitology

(Spring 2003)

My primary responsibility to for the laboratory section of the course. See description above.

L113 Introduction to Biology Laboratory

(Fall 1999)

This course covers laboratory experiments in various aspects of biology, with a focus on investigative logic and methods. This course introduces aspects of cell biology, genetics, and evolutionary biology.

Course Instructor: Biology Department, College of Arts and Science, University of Minnesota (Duluth, MN)

Biology Supplementary Instructor

(Fall 1995).

Supplementary course that supported traditionally unrepresented and at-risk undergraduate students in biology.

2005-2006 Advising and mentoring: Science and Environmental Education, Department of Curriculum and Instruction, Indiana University (Bloomington, IN)

Advising of all secondary science education students enrolled in the Science and Environmental Education B.S., M.S. (both for certification and post-certification), Transition to Teach, and Community of Teachers.

Masters students mentored:

- Victor Medina
- Jamie Regan
- John Pinizzoto

- Asma Khawaji
- Joye Myers
- Aklilu Maasho

Academic Standards Committee. Advisor to the ASC in regards to science program content course appeals and substitution requests from students for program requirements.

Thailand Visiting Scholars Program. Advisor for Kanchulee Panyain for her dissertation proposal. (2005-2006)

Non-formal Science Education

- 2006-2007 Planning Team for the Brightside/Partnership for a Green City Youth Summit. The Youth Summit brings students in grades 4th through 12th together twice a year to share, learn, and take action on environmental issues in their schools and community.
- 2005-2006 Faculty Advisor and Coordinator of Indiana University's Earth Week Education Committee. Pre-service teachers volunteer to engage the public in hands-on/minds on activities that promote environmental and sustainability awareness during the Earth Day Festival in Dunn Meadows
- 2003-2006 Facilitator for Project WET, Project WILD, and Project Learning Tree Natural Resource Education Center. (Indianapolis, IN)
Co-presented certification workshops for 273 pre-service elementary teachers and graduate student instructors in fall 2004. Co-presented workshops for 107 pre-service secondary/elementary teachers and Science and Environmental Education graduate students in spring of 2005. In the fall of 2005, we trained 53 preservice teachers.
- 2000- 2002 and 2005 Jim Holland Summer Enrichment Program for Minority Students. College of Arts and Science, Indiana University, Bloomington, IN. This program involves seventh grade minority students in the University experience. I co-taught the microbiology/parasitology portions.
- 2003 Instructor: Saturday Science QUEST for Kids Program. Indiana University, Bloomington, IN. Developed and taught "Water Wonders", a six week science course, to students in K, 1, and 2. Supervised six pre-service teachers who participated as Assistant Facilitators.

OTHER PROFESSIONAL EXPERIENCE

- 2004-2005 Coordinator: Saturday Science QUEST for Kids Program. Indiana University, Bloomington, IN. Responsibilities include organizational aspects of the program such as publicity, web-site design, recruitment and placement of volunteer pre-service teachers, recruitment of graduate student instructors,

scheduling, budgeting, and communication with area schools and parents. Also supervised pre-service elementary teachers enrolled in Q490: Independent Study in Science Education as full-time assistants.

- 1998-1999 Coordinator: Council for Environmental Stewardship (CFES) of Indiana University. (Bloomington, IN) Administrative position. Responsibilities included coordinating Council activities and designing and implementing programs, policies, and goals. The Council's mission is to engage students, faculty and staff in academic programs and administrative efforts that enhance the campus environment and contribute to a healthy sustainable world.
- 1989- 1994 Pharmaceutical representative: Merck and Company. (Westpoint, PA) Territory manager in Southwestern Michigan that consisted of primary care physicians, specialists, five hospitals (two teaching hospitals), one VA, five residency programs, one pharmacy school, one PA school, and two research centers. Developed and conducted inservices to hospital, nursing home, and pharmacy staff. Organize all-day Gastroenterology symposium. Maintained contact with research centers (SOLVD, ISIS, NHARS, Prostate Ca study). Selected speakers and helped plan the 2nd and 3rd Michigan Hypertension Symposiums. Conference work with Cardiac and Family Practice Associations. Presentations included "How to Present Nursing Home Inservices" to district members, and "The SOLVD study", "Overview and Management of BPH", and "Acid Related Disorders" as well as others to customers. Sales were consistently to plan and in many years exceeded both the EDFO and nation according to Evalumap.

RESEARCH EXPERIENCE

- 2008-2009 Kentucky Environmental Education Council PRIDE Grant. Education and Outreach Grant. PI: Teddie Phillipson-Mower, Center for Environmental Education, University of Louisville (Louisville, KY)
- 2007-2008 Council for Postsecondary Education Improving Educator Quality Grant. Community Based Science Project. PI: Carol Hanley, University of Kentucky. Sub-grant for Program Evaluation. PI: Teddie Phillipson-Mower, University of Louisville (Louisville, KY)
- 2006-2008 Kentucky Environmental Education Council PRIDE Grant. Education and Outreach Grant. PI: Teddie Phillipson-Mower, Center for Environmental Education, University of Louisville (Louisville, KY)
- 2002-2004 Research Assistantships: Science Education, Department of Curriculum and Instruction, Indiana University (Bloomington, IN)
- Howard Hughes Medical Institute: 2002 Undergraduate Biological Sciences Education Program. Indiana University at Bloomington (Bloomington, IN)

Evaluation and educational research. Evaluation PI: Dr. William Harwood (2003-2004)

Proffitt Grant. "Inquiry in Action" study following elementary pre-service teachers', undergraduate biology teaching assistants', and biology graduate assistants' conceptions of inquiry prior to and after an inquiry based biology course for elementary pre-service teachers. PI: Dr. William Harwood (2002-2003)

2002-2004 Additional funded research: Office of the Chancellor, Indiana University (Bloomington, IN)

IU Bloomington Scholarship of Teaching and Learning Academy. "Risking reform to enhance learning". Project investigated student achievement and faculty motivation as reform based teaching was implemented into an upper division biology course. Co-researcher: Dr. Richard Mower

2002 Science Education, Indiana University, Bloomington, IN

Wayne E. Gross Grant. "Dilution solutions: Conceptual difficulty in beginning microbiology students". This study investigated the difficulty microbiology majors have in conceptualizing serial dilutions despite prior instruction in chemistry and biology coursework

2000-2006 Additional research (unfunded)

Writing towards environmental action.

Secondary science methods students' intellectual and ethical development and views of the nature of science.

Teaching moves to scaffold an understanding of evolution and the nature of science through the lens of intellectual and ethical development.

Scientists' conceptions of inquiry. Research conducted with Rebecca Reiff and William Harwood.

Views of the nature of science in a physics class for elementary pre-service teachers. Primary investigator: Dr. Debra Hanuscin

PUBLICATIONS

Published Graves, I. and Phillipson, T. (2007) Who says the sky is blue? Using critical literacy to prepare pre-service teachers. Akerson, V., (Ed.) in *Interdisciplinary language arts and science instruction in elementary classroom: Applying research to practice*. Mahwah, NJ: Erlbaum

Hanuscin, D., Phillipson-Mower, T., & Akerson, V. (2006). Integrating nature of science instruction into a physical science content course for preservice elementary teachers: NOS views of teaching assistants. *Science Education*. 90(5): 912-935.

Harwood, W. S., Reiff, R., & Phillipson, T. (2005). Putting the puzzle together: Scientists' metaphors for scientific inquiry. *Science Educator*, 14(1), 25-30.

Phillipson, T. (2004). Water wonders. *Connect: Teachers' innovations in K-8 science, math, and technology*. 17(5):9-11

Harwood, W., Reiff, R., & Phillipson, T. (2002). Scientists' conceptions of scientific inquiry: Voices from the front. In P. A. Rubba, J. A. Rye, W. J. DiBiase, & B. A. Crawford (Eds.), *Proceedings of the 2002 annual International Conference of the Association for the Education of Teachers in Science*. (ERIC Document Reproduction Service No. ED465602)

Harwood, W., Reiff, R., & Phillipson, T. (2002). How is your lawnmower working? Understanding science through metaphors. In P. A. Rubba, J. A. Rye, W. J. DiBiase, & B. A. Crawford (Eds.), *Proceedings of the 2002 Annual International Conference of the Association for the Education of Teachers in Science*. (ERIC Document Reproduction Service No. ED465602)

Phillipson, T. (2002). Why are they doing that? *Connect: Teachers' innovations in K-8 science, math, and technology*. 15(1):13-16

Gallagher, C., Marker, M., Kim, M., Phillipson, T., & Dodge, T. (2001). *The use of content analysis in researching adolescent issues*. Monograph.
www.secretstage.com/other/web/messages/school/y520/monograph.pdf

Reiff, R., Harwood, W., & Phillipson, T. (2002). A scientific method based upon research scientists' conceptions of scientific inquiry. In P. A. Rubba, J. A. Rye, W. J. DiBiase, & B. A. Crawford (Eds.), *Proceedings of the 2002 Annual International Conference of the Association for the Education of Teachers in Science*. Document Reproduction Service No. ED465602)

University of Louisville Center for Environmental Education. (2007). *2006-2007 Annual Report*. Louisville, KY

In Press Phillipson-Mower, T. & Meyer, X. (2008). Ten Small Things... *E-NARST News*.

Submitted Hanuscin, D., Pareja, E., Phillipson-Mower, T. Nature of Science Instruction into a Physical Science Content Course for Elementary Teachers: Enhancing Efforts of Teacher Education Programs? Submitted to *Science Education*

In revision Reiff, R., Harwood, W., & Phillipson, T. Scientists' conceptions of scientific

(JARST, submitted February, 2005)

**In
Progress**

Phillipson-Mower, T., and Mower, R. Dilution difficulties.

Phillipson-Mower, T., and Harwood, W.S. Implanting an inquiry-based science course for pre-service elementary teachers: Challenges measurable impacts.

Harwood, W.S., and Phillipson, T. Learning as they teach: Biology graduate instructors' beliefs and practice of inquiry.

Phillipson-Mower, T. Intellectual and moral development and views of the nature of science in undergraduate biology students.

Phillipson-Mower, T. Intellectual and moral development and the views of the nature of science in secondary science methods students with and without authentic research experience.

Phillipson-Mower, T. A comparison between views of the nature of science in elementary and secondary pre-service teachers with and without extended authentic research experience.

Phillipson-Mower, T., Donnelly, L. & Deniz, H. Evolution, Nature of Science and Intellectual and Ethical Development in Science Methods Students.

Phillipson-Mower, T., & Mower, R. Risking reform to enhance learning.

**INVITED
ENGAGEMENTS**

2005, NSF Short Courses for College Teachers: Faculty Development Program.
2006 Dayton, Ohio. *Inquiry based instruction: Enhance the way you teach and the way your students learn.* Thomas Lord, Indiana University of PA., Teddie Phillipson-Mower, Indiana Univ., Sharolyn Belzer, Idaho State Univ., Kerry Cheeseman, Capital Univ., & Kelly Bohrer, Univ. of Dayton.

PRESENTATIONS

Phillipson-Mower, T. (accepted for April, 2008) *Environmental Educator's Conceptions of Science.* National Association of Research in Science Teaching.

Baust, J., Wilson, T., Phillipson-Mower, T. (2007). *Land, Legacy, and Learning: Making Education Pay for Kentucky's Environment: KUPPEE Network Panel Discussion*. Presentation at the Campus Community Partnerships for Sustainability 2007 Conference. Richmond, KY.

Brickman, P., Miller, K., Phillipson-Mower, T. (2007). Successful inquiry instruction – providing feedback that works. Presentation for the Four Year Section Faculty Development Day at the National Association of Biology Teachers Professional Development Conference. Atlanta. GA.

Lord, T., Cheesman, K., Phillipson-Mower, T., and Smith-Walters, C. (2007). *Effective Inquiry in lecture class...Really?...How!* Presentation for the Four Year Section Faculty Development Day at the National Association of Biology Teachers Professional Development Conference. Atlanta. GA.

Lord, T., Phillipson-Mower, T., Cheesman, K. (2007). *Inquiry that Really Works in Life Science Instruction*. Pre-conference workshop presented at the National Association of Biology Teachers 2007 Professional Development Conference. Atlanta, GA.

Phillipson-Mower, T. (2007). *Exploring Environmental Education within the Context of a Green Partnership*. Paper presented at North American Association of Environmental Education

Phillipson-Mower, T. (April, 2007). *Building a green partnership*. National Association for Research in Science Teaching Annual Conference. New Orleans, LA.

Phillipson-Mower, T., **Conn, E.**, Shinton-Fried, J., Griffin, D. (2007). *Environmentality: Guiding Students to Environmental Stewardship*. Paper presented at North American Association of Environmental Education

Phillipson-Mower, T. & Griffin, D. (2007). *Local EE Resources for Teachers in the Kentucky Green and Healthy Schools Initiative*. Teacher Professional Development session given at the September 2007 Brightside Youth Summit. Louisville, KY.

Phillipson-Mower, T., Griffin, D., Brown, S., Drury, G. Crimm, L., and Sanders, J. (2007) *Advancing Literacy through Science and Environmental Education*. Presentation at the Kentucky Science Teachers Association Conference. Lexington, Kentucky

Phillipson-Mower, T., Mower, R. (2007). *Field Microbiology*. Presentation at the National Association of Biology Teachers 2007 Professional Development Conference. Atlanta.GA.

Akerson, V., Britsch, S. J., Shepardson, D., Graves, I. S., Phillipson, T., Richards, J. C., Crowther, D. T., Connon, J. (April, 2007). *Interdisciplinary language arts and science instruction in elementary classrooms: Applying research to practice*. Interactive symposium to be conducted at the American Educational Research Association Annual Meeting. Chicago, Ill.

Lord, T., Phillipson-Mower, T., Cheeseman, K., Bohrer, K., Belzer, S. (October, 2006). *How to teach biology through inquiry: What works and what doesn't*. National Association of Biology Teachers Annual Conference, Albuquerque, NM

Cheeseman, K., Lord, T., Phillipson-Mower, T., Bohrer, K., & Belzer, S. (October, 2006). *Developing college biology lesson plans through inquiry methods*. National Association of Biology Teachers Annual Conference. Albuquerque, NM

Phillipson-Mower, T. (April, 2006). *The relationship between intellectual and ethical development and views of the nature of science*. American Educational Research Association Annual Meeting. San Francisco, CA

Jones, L. S., Branch, G., Amiri, L., Fowler, S., Dotger, S., McCall, B., Cavallo, G., and Phillipson-Mower, T. (April, 2006) *Deciphering the Evolution/Creation Controversy: Theoretical Attempts to Untangle Differing Epistemologies*. American Educational Research Association Annual Meeting. San Francisco, CA

Amiri, L., Fowler, S., Jones, L., Branch, G., Caralle, A., Phillipson-Mower, T. (April, 2006). *Evolution for all: Theoretical and practical approaches*. National Association for Research in Science Teaching Annual Conference. San Francisco, CA

Phillipson-Mower, T. (April, 2006). *Secondary pre-service teachers' intellectual and ethical development, views of NOS and authentic research experiences*. National Association for Research in Science Teaching Annual Conference. San Francisco, CA

Phillipson-Mower, T., Townsend, J. S., White, O., and Oliviera, A. (February, 2006) *Make Connections with Environmental Education*. Presented at the Hoosier Association of Science Teachers, Inc Professional Development Convention.

Phillipson-Mower, T. (January, 2006). *Secondary pre-service teachers' intellectual and ethical development and views of NOS*. Presented at the international convention of the the Association for Science Teacher Education (ASTE).

Hanuscin, D. L. and Phillipson, T. (November, 2005). *Beyond content and process – Understanding the nature of science*. National Science Teachers Association conference. Chicago, Ill.

Phillipson-Mower, T., Donnelly, L., Salmonelli, G., White, O., Townsend, S., & Hanson, D. (November, 2005). *Fun with saturday science*. Presented at the Regional meeting for the National Association of Science Teachers. Chicago, IL

Phillipson-Mower, T. (October, 2005). *Fascinating fungi*. Workshop presented at the annual conference of the National Association of Biology Teachers. Milwaukee, WI

Lord, T., Phillipson-Mower, T., Belzer, S., Cheeseman, K., Bohrer, K., DeSaix, J., & Hitt, A. (October, 2005). *Panel discussion: Utilizing inquiry instruction in a college biology program*

(with a focus on field trips and labs). Presented at the annual conference of the National Association of Biology Teachers. Milwaukee, WI

Lord, T., Phillipson-Mower, T., Belzer, S., Cheeseman, K., & Bohrer, K. (October, 2005). *Modeling inquiry instruction in college biology classrooms and labs*. Presented at the annual conference of the National Association of Biology Teachers. Milwaukee, WI

Phillipson-Mower, T. (April, 2005). *The relationship of intellectual and ethical development and views of the nature of science*. Presented at the annual convention of the National Association for Research in Science Teaching (NARST). Dallas, TX

Hanuscin, D., & Phillipson-Mower, T. (April, 2005). *Integration of NOS instruction into a physical science content course for elementary teachers: Enhancing efforts of teacher education programs*. Presented at the annual convention of the National Association for Research in Science Teaching (NARST). Dallas, TX

Bohrer, K., Lord, T., Phillipson-Mower, T., Belzer, S., & Cheesman, K. (June, 2005). Three day workshop. *Enhancing your teaching and your student's learning*. Chautauqua short course for undergraduate faculty through the Carnegie Foundation. Dayton, OH

Phillipson-Mower, T., Sadler, T., Akerson, V., Hanuscin, D., Deniz, H., & Donnelly, L. (April, 2005). *Introducing the nature of science into the science methods classroom*. Presented at the annual convention of the National Association of Science Teachers in Dallas, TX.

White, O., Phillipson-Mower, T. (April, 2005). *Developing problem solving skills through science content instruction*. Presented at the annual convention of the National Science Teachers Association (NSTA). Dallas, TX

Phillipson-Mower, T. (January, 2005). *Undergraduate biology majors' intellectual and ethical development and understanding of nature of science*. Presented at the international convention of the The Association for the Education of Teachers of Science (AETS). Colorado Springs, CO.

Phillipson-Mower, T., & Bohrer, K. (November, 2004). *Risking reform to enhance teaching: Two perspectives*. Presented at the international convention of the National Association of Biology Teachers (NABT). Chicago, IL

Phillipson-Mower, T., Bohrer, K., & Harwood, W. (November, 2004). *Learning as we teach: Graduate students attempts to teach through inquiry*. Presented at the international convention of the National Association of Biology Teachers (NABT). Chicago, IL

Phillipson-Mower, T. (November, 2004). *Transform the way you teach and the way your students learn: How to use inquiry in the college science classroom*. Presented at the international convention for the National Association of Biology Teachers. Chicago, IL

Phillipson-Mower, T., and Mower, R. (February, 2004). *Parasitology in the inquiry based classroom*. Presented at the annual meeting of the Hoosier Association of Science Teachers, Inc., Indianapolis, IN

Phillipson-Mower, T., Sadler, T., Akerson, V., Hanuscin, D., Deniz, H., & Donnelly, L. (February, 2004). *Introducing the nature of science into the science methods classroom*. Presented at the annual meeting of the Hoosier Association of Science Teachers, Inc., Indianapolis, IN

Phillipson-Mower, T. (October, 2003). *Risking reform to enhance learning*. Presented at the international conference of the National Association of Biology Teachers. Portland, OR

Phillipson-Mower, T. (October, 2003). *Professional development for faculty at the four year institution level*. Panel discussion sponsored by the Four Year section of the National Association Biology Teachers. Portland, OR

Reiff, R., & Phillipson-Mower, T. (April, 2003). *The portrayal of the scientific method in modern science textbooks (K-16)*. Presented at the annual convention of the National Association of Research in Science Teaching (NARST). Philadelphia, PA

Hayes, C., Al-Jabber, J., Phillipson, T., & Marshall, J. (February, 2003). *Inquiry through field trips*. Presented at the annual conference for the Hoosier Association for Science Teaching, Inc. Indianapolis, IN

Phillipson-Mower, T. (February, 2003). *Risking Reform*. Poster presented at the annual convention of the Association for the Education of Teachers of Science. St. Louis, MO

Phillipson-Mower, T. & Mower, R. (January, 2003). *Risking reform to enhance learning*. Poster presented at the international convention of the American Society of Microbiology. Baltimore, MD

Phillipson-Mower, T. (October, 2002). *Parasitology in an inquiry based classroom*. Workshop presented at the annual convention of the National Association of Biology Teachers. Cincinnati, OH

Phillipson-Mower, T. (October, 2002). *Dilution difficulties*. Presented at the annual convention for the National Association of Biology Teachers. Cincinnati, OH

Harwood, W., & Phillipson-Mower, T. (August, 2002). *Using grounded theory methodology in chemistry education: Two research examples*. 17th Biennial Conference of Chemistry Education, Bellingham, WA

Phillipson-Mower, T. (August, 2002). *Dilution difficulties: A biology issue with chemistry implications*. Paper presented at the 17th Biennial Conference of Chemical Education. Bellingham, WA

Harwood, W., Reiff, R., and Phillipson, T. (April, 2002). *From the frontline: Scientist's conceptions of scientific inquiry*. Multiple paper set. Papers presented at the international conference of the National Association for Research in Science Teaching (NARST). New Orleans, Louisiana.

Hanuscin, D., Reiff, R., & Phillipson, T. (February, 2002). *What do they remember? Students' science autobiographies*. Presented at the annual meeting of the Hoosier Association of Science Teachers, Inc., Indianapolis, IN

SERVICE

Professional Science, Science Education, and Environmental Education Organizations, Affiliations, and Activities:

American Society of Microbiology (ASM). (2002-present).
Education strand.

Association of Science Teacher Educators. (ASTE)
Proposal reviewer for conference presentations (2002, 2004, 2005, 2006)
Graduate Student Association conference committee (2005)
Conference registration volunteer (2005)
Women in Science Education (WISE) (2002 – present).

Biology Pedagogy Reading Club. (2002 – 04) Founder and coordinator. Topics and special speakers included: Service Learning (with Dr. Heather Reynolds), Developing critical thinking skills with science writing (Dr. Michael Tansey), Intellectual and Moral Development (Dr. Craig Nelson), Hands-On Molecular Biology (Dr. George Malacinski)

Hoosier Association of Science Teachers, Inc. (HASTI).
Social Committee (2004, 2005, 2006).
The Hoosier Science Teacher Publication reviewer (2003 – present)

National Association of Biology Teachers (NABT).
Vice Chair of the Four Year Strand, 2007-08.
Secretary/Treasurer of the Four Year Strand, 2006-07.
Co-chair of the Professional Development Committee of the Four Year strand 2003 – present.
Publications committee – The American Biology Teacher (2003 – 2004).
2005 Chautauqua Inquiry Seminar Project (co-members: Dr. Tom Lord, Indiana University of Pennsylvania; Dr. Sherolyn Belzer, Idaho State University; Dr. Kerry Cheeseman, Capitol University; and Kelly Bohrer, University of Dayton).

National Association of Interpretation (NAI). (2002 – present).
Participated in two professional development workshops: *Growing Science – K-8*. (2004) Sponsored by the Midwestern Botanical Society and *Environmental Education in the Nature Center Setting*. (2004).

National Association of Research in Science Teaching (NARST). (2000 – present)
Conference proposal reviewer (2002, 2004, 2005, 2006)

National Science Teachers Association (NSTA). (1989 – present)

North American Association for Environmental Education (NAAEE)

Reform Teaching Observation Protocol Expert Evaluators. Science Education, Indiana University. Trained faculty and graduate students in the use of the RTOP instrument developed by Arizona Collaborative for Excellence in Professional Teaching. Over time inter-rater reliability was established for the group allowing for the use of the instrument in local research.

Scholarship of Teaching and Learning (SOTL). Indiana University. (2000 – present)

Departmental Committees

Elementary Program Committee (2006 -)
Secondary Program Committee (2006 -)
Self Study 2 Committee (2006 -)
Budget and Planning Committee (2006 -)
Environmental Education Advisory Board (2007 -)

College

Green Thumbs (student EE group). Faculty consultant (2006 -)
UofL Youth Delegates to the Campus Community Partnership Sustainability Conference.
Faculty Advisor (2007 -)

University

Kentucky Institute for Environment and Sustainable Development. Center Director
(2006 -)
Honor Program Environmental Education Initiative. (2006 -)

Community and State

Kentucky University Partnership for Environmental Education (KUPEE). (2006 -)
Mayor's Climate Change Committee of the Partnership for a Green City (2007-)
Education and Outreach Committee (2007-)
Environmental Education Committee for the Partnership for a Green City. Co-Facilitator.
(2006 -)
Brightside Youth Summit. Green and Healthy Schools and Earthforce Initiatives. UofL
Representative. (2006 -)
Lassiter Middle School Project. UofL Representative. (2007 -)

Glacier Run Interpretive Planning Committee. (2007)
21st Century Parks Planning for Education Summit. UofL Representative. (2007)
Science Fair Judge (2006 -).

Other Organizations, Affiliations, and Activities:

Council for Environmental Stewardship, Indiana University.
Chairperson (2004-05)
Representative for the School of Education (2004-05)
Representative for the Graduate and Professional Organization (2003-04)
Member of the Waste Reduction Working Group (2004-2006)
Earth Week Coordinator (2004-2006)

Parent Teacher Organization (PTO). Binford/Rogers Elementary. Bloomington, IN
Publicity Chairperson (2003-04)
Teacher Appreciation Chairperson (2002-03)

Sassafras Audubon Society, Bloomington, IN (2000-present)

Vigo County Parent Advisory Committee Terre Haute, IN.
Secretary – 1998-99.

Children's Exploratory Museum, Duluth, MN. Founding committee. (1995-1996)

Hartley Nature Preserve, Duluth, MN.
Committee for the establishment of the preserve/nature center. (1995-96)

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