Lisa Donnelly, Ph.D

Assistant Professor
TLC
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Education

Ph.D., Science Education **2007**

Indiana University, Bloomington, IN

Dissertation: Indiana Secondary Students Evolution Learning Experiences and Demarcations of Science from Non-Science

M.A.T, Biology **2000**

Indiana University, Bloomington, IN

B.S., Biology **1998**

Indiana University, Bloomington, IN

Higher Education Work Experience

Assistant Professor **08/2007 - present**

Kent State University

Teach undergraduate and graduate level science education coursework, advise undergraduate and graduate students, develop and maintain active research agenda, and provide service to community, university, and science education community.

Associate Instructor **2003 - 2006**

Indiana University, Department of Curriculum and Instruction

Integrating Technology in Teaching - Part I - Spring 2006: Taught preservice language arts students methods used to integrate technology into K-12 instruction. Elementary Science Methods - Fall 2005: Taught pre-service elementary teachers methods used for teaching elementary science. Secondary Science Methods - Spring 2005, Spring 2004: Co-taught graduate and undergraduate pre-service secondary science teachers methods for teaching secondary science. Secondary Laboratory/Field Experience - Spring 2005, Spring 2004, Fall 2003: Co-taught and taught graduate and undergraduate pre-service secondary science teachers during their field placements and student teaching seminars. Exploring Secondary Science Teaching - Fall 2004, Spring 2004, Fall 2003: Taught graduate and undergraduate pre-service secondary science teachers methods for teaching secondary science and supervised science field placements.

Other Professional Experience

Consultant **2007 - 2007**

Discovery Center, Miami University, Oxford, Ohio

Conduct Rasch model analysis and statistical tests for various instruments used for the evaluation of educational programs.

Scientific Modeling for the Inquiring Teacher Network (SMIT'N) Coordinator **2006 - 2006**

Indiana University Bloomington

K-6 Professional Development Program - Organized the summer institute by scheduling rooms and guest speakers, ordering materials, books, and instruments, arranging lunches, coordinating lessons, ensuring that project goals are incorporated into instruction, developing handouts and posters relevant to project goals, and collecting and organizing data collected during the summer workshop. Developed and instructed 30 hours of inquiry lessons on "Local Invasive Plants".

Science Education Graduate Research Assistant **2006 - 2007**

University of Indiana in Bloomington

Conduct research about elementary science teachers' and learners' conceptions of NOS with Dr. Valarie L. Akerson. Duties include preparing data collection instruments, developing human subjects applications and consent forms, making classroom observations at elementary schools, collecting qualitative and quantitative data, analyzing quantitative and qualitative data, summarizing findings, conducting literature reviews, and co-authoring manuscripts.

Science Education Graduate Research Assistant **2004 - 2004**

University Indiana Bloomington

Developed data gathering measures, conducted interviews, transcribed interviews, and qualitatively analyzed interviews for Center for Authentic Science Practice in Education (CASPiE), a National Science Foundation Grant (Special Projects: Chemistry Education).

Upward Bound Instructor (Chemistry) **2004 - 2004**

Urban High School

Developed and implemented standards-based chemistry curriculum for urban high school students.

Science Education Graduate Research Assistant **2004 - 2005**

Indiana University Bloomington

Conducted research on practicing teachers' views of science standards with Dr. Troy D. Sadler. Co-determined sampling strategy, co-developed interview protocol, conducted interviews, transcribed interviews, and conducted analysis of data for Indiana University School of Education Internal Grant: Accounting for Accountability: The Effects of Standards and High-Stakes Testing on Secondary Science Education.

Saturday Science Instructor **2003 - 2006**

Indiana University Science QUEST for Kids Program

What is Science? Exploring the True Nature of Science - Spring 2007
The Earth Under our Feet (Grades: K-2) - Fall 2006
Energy (Grades: K-2) - Spring 2006
Slugs and Bugs: the Nature of Science (Grades: K-2) - Spring 2005
The Power of Plants (Grades: K-2) - Fall 2004
The Wonderful World of Color (Grades 3-5) - Spring 2004
Earth Explorers (Grades 5-8) - Fall 2003
Co-taught and taught six-week enrichment courses to elementary students. Designed and implemented 2.5-hour science learning lessons. Supervised pre-service elementary teachers assisting with instruction.

Associate Instructor/ Graduate Assistant **0/2003 - 0/2007**

Indiana University Bloomington

Taught undergraduate and graduate level science education coursework, developed and maintained research projects, developed and implemented K-6 professional development, and provided service to community, university, and science education community.

Instructor **2002 - present**

Indiana University James Holland Summer Enrichment Camp

Guide eighth and ninth-grade minority students through series of biology enrichment labs conducted at Indiana University during a week-long summer camp. Develop & administer post-program evaluation instrument.

High School Teacher **0/2000 - 0/2003**

Brown County High School, Nashville, IN

Developed and implemented biology curricula for Biology I and Advanced Placement Biology. Designed activities and assessment plans. Managed classroom activities and field trips. Created instructional course web site that accompanied the daily lessons in class. Served as Co-Chair of the NCA School Improvement Committee and as a committee member of the School Assessment Committee. Coached Spell Bowl Team from Fall 2000 to Fall 2003. Sponsored Brown County Key Club from Fall 2001-Spring 2003. Proposed, planned, selected students, and lead a three-week outdoor education course to Shoshone National Forest in Wyoming in Summer 2002.

Enrichment Mentor **2000 - 2000**

Project Gear Up and Best of America

Designed and implemented science-related demonstrations and activities for seventh-graders in a rural community. Bi-weekly managed a classroom of seventh-graders during science exploration activities.

Botanist **1999 - 1999**

Indiana University Center for the Study of Institutions, Populations, and Environmental Change

Botanist Indiana University Center for the Study of Institutions, Populations, and Environmental Change Identified herbs, shrubs, and trees in local forests for forest usage studies.

Associate Instructor **1998 - 1999**

Indiana University Biology Department

1998-1999 Associate Instructor Biology Department
Genetics Laboratory - Fall 1999, Spring 1999, Fall 1998
Taught upper-level genetics lab techniques and content to undergraduate biology majors.

Undergraduate Teaching Intern **1997 - 1998**

Indiana University Biology Department

1997-1998 Undergraduate Teaching Intern Indiana University Biology Department
Evolution and Diversity - Spring 1998, Fall 1997, Spring 1997
Taught discussion sections for introductory biology class for biology majors.

Independent Researcher **1996 - 1998**

Indiana University Cherbas Laboratory

Proposed, researched, implemented, and presented a three-semester investigation into Drosophila cell lines stably transformed with engineered plasmids. Proposed, researched, and implemented a one-semester investigation into the use of luciferase and the luminometer as a genetic marker system. Employed several molecular biology techniques including polymerase chain reactions, gel electrophoresis, tissue culture, sterile technique, electroporation, plasmid construction, mini-preparations, Cesium preparations, restriction enzyme digests, fly crosses, egg injections, and bioassays.

Publications

*Borgerding, L.A., Sadler, T.D., & Koroly, M. (2013). Teachers' concerns about biotechnology education. *Journal of Science Education and Technology, 22*, 133-147. 2013

Publication: *Journal Articles, Refereed*

*Borgerding, L.A. (2012). State standards for evolution: Views of Ohio high school biology teachers.*Science Educator¸ 21,* 19-28. 2012

Publication: *Journal Articles, Refereed*

*Akerson, V.A., Donnelly, L.A., Riggs, M., & Eastwood, J. (2012). Developing a community of practice to support preservice elementary teachers' nature of science instruction.*International Journal of Science Education, 9,* 1371-1392. 2012

Publication: *Journal Articles, Refereed*

*Akerson, V.A., Buck, G.A., Donnelly, L.A., Nargund, V., & Weiland, I.S. (2011). The importance of teaching and learning nature of science in the early childhood years.*Journal of Science Education and Technology, 20,* 537-549. 2011

Publication: *Journal Articles, Refereed*

*Donnelly, L.A., & Argyle, S. (2011). Teachers' willingness to adopt nature of science activities following a physical science professional development.*Journal of Science Teacher Education, 22,* 475-490. 2011

Publication: *Journal Articles, Refereed*

*Deniz, H. & Donnelly, L.A. (2011). Preservice secondary science teachers' acceptance of evolutionary theory and factors related to acceptance.*National Center for Science Education, 31,* 12-19. 12-19. 2011

Publication: *Journal Articles, Refereed*

Akerson, V. L. & Donnelly L. A., (2010). Teaching nature of science to K-12 students: What understandings can they attain? International Journal of Science Education, 32, 97-124. 2010

Publication: *Journal Articles, Refereed*

Akerson, V. L., Buzzelli, C., & Donnelly, L. A. (2010). On the nature of teaching nature of science: Preservice early childhood teacher's instruction in preschool and elementary settings. Journal of Research in Science Teaching, 47, 213-233. 2010

Publication: *Journal Articles, Refereed*

Akerson, V.L., Townsend, J.S., Donnelly, L.A., Hanson, D.L., Tira, P., & White, O. (2009). Scientific modeling for inquiring teachers network (SMIT'N): The influence on elementary teachers' views of nature of science, inquiry, and modeling*Journal of Science Teacher Education, 20,* 21-40. 2009

Publication: *Journal Articles, Refereed*

Donnelly, L.A., Kazempour, M., & Amirshokoohi, A. (2009). High school students' perceptions of evolution instruction: Acceptance and evolution learning experiences. *Research in Science Education, 39,* 643-660. 2009

Publication: *Journal Articles, Refereed*

Donnelly, L. A., & Sadler, T. D., (2009). Indiana high school science teachers' views of standards and accountability: "Is it better to feed the hogs or to weigh 'em?" Science Education, 93, 1050-1075. 2009

Publication: *Journal Articles, Refereed*

Akerson, V.L., Buzzelli, C., & Donnelly, L.A. (2008). Early childhood teachers' views of nature of science: the influence of intellectual levels, cultural values, and explicit reflective teaching. *Journal of Research in Science Teachi Journal of Research in Science Teaching, 45,*748-770. 2008

Publication: *Journal Articles, Refereed*

Deniz, H., & Donnelly, L.A. (2008). Exploring the factors related to the acceptance of biological evolution among Turkish preservice biology teachers.*Journal of Research in Science Teaching, 45*, 420-443. 2008

Publication: *Journal Articles, Refereed*

Akerson, V.L., & Donnelly, L.A. (2008). Relationships among learner characteristics and preservice elementary teachers' views of nature of science.*Journal of Elementary Science Education, 20*, 45-58. 2008

Publication: *Journal Articles, Refereed*

Donnelly, L.A., & Boone, W.J. (2007). Biology teacher's attitudes toward and use of Indiana's evolution standards. *Journal of Research in Science Teaching, 44, 236-257* 2007

Publication: *Journal Articles, Refereed*

Boone, W.J., & Donnelly, L.A. (2006). High-stakes science testing. In Tobin, K. (Ed.) *Teaching and Learning Science: A Handbook.* Westport, CT: Praeger Publishing 2006

Publication: *Book Chapters*

Sadler, T.D., & Donnelly, L.A. (2006). Socioscientific argumentation: the effects of content knowledge and morality. *International Journal of Science Education, 28, 1463-1488* 2006

Publication: *Journal Articles, Refereed*

Donnelly, L.A., & Argyle, S. (accepted). Teachers' willingness to adopt nature of science activities following a physical science professional development. *Journal of Science Teacher Education.*

Publication: *Journal Articles, Refereed*

Presentations

*Borgerding, L.A., Thi, B., Foster, D., Perry, J., Tilocco, E., & Young, T. (2014, in review). Grab your students' attention with biology discrepant events. Presentation at the Science Education Council of Ohio Conference, Columbus, OH. 2014

Type: *State Refereed*

*Beutel, B., & Borgerding, L.A. (2014, in review). Converting your cookbook labs to inquiry: Tips and examples. Presentation at the Science Education Council of Ohio Conference, Columbus, OH. 2014

Type: *State Refereed*

*Borgerding, L.A., Kulbago, L., & Klein, V. (2014, accepted). A Mixed Methods View of Evolution Acceptance: Understandings Gained from Emic and Etic Perspectives. Paper presentation at the annual meeting of the International Congress of Qualitative Inquiry, Champaign, IL. 2014

Type: *National Refereed*

Borgerding, L.A., & Caniglia, J. (2014, April). Recruitment of early STEM majors into possible secondary science teaching careers: The role of science education summer internships. Paper presentation at the annual meeting of the National Association for Research in Science Teaching, Philadelphia, PA. 2014

Type: *National Refereed*

*Borgerding, L.A., Schildhouse, T., Zehnder, A., & Eickmeier, B. (2013, February). Hands-on Nature of Science. Presentation at the Science Education Council of Ohio State Conference, Dayton, OH. 2013

Type: *State Refereed*

*Klein, V. A., Johnson, J., Ghosh, R., Kulbago, L., Alamri, A. Z., Borgerding, L. (2013, February). Bringing Environmental Education Strategies into the Classroom. Presentation at the Science Education Council of Ohio State Conference, Dayton, OH. 2013

Type: *State Refereed*

*Easter, G., Borgerding, L.A., & Brubaker, D. (2013, February). Teaching Measurement on the Cheap. Presentation at the Science Education Council of Ohio State Conference, Dayton, OH. 2013

Type: *State Refereed*

*Borgerding, L.A. (2013, April). Middle school science teachers' evolution teaching: A description of practices, concerns, and possibilities. Paper presented at the annual meeting of the American Education Research Association in San Francisco, CA. 2013

Type: *National Refereed*

*Crowe, A., Hostetler, A., Borgerding, L.A., & Ghosh, R. (2013, April). Teaching for democratic education through a methods course focused on Science, Technology, and Society. Paper presented at the annual meeting of the American Education Research Association in San Francisco, CA 2013

Type: *National Refereed*

*Borgerding, L.A., Crowe, A., Hostetler, A., & Ghosh, R. (2013, April).Preservice science and social studies teachers' perspectives on science and society: An integrated methods course. Paper presented at the annual meeting of the National Association for Research in Science Teaching in Rio Grande, Puerto Rico. 2013

Type: *National Refereed*

*Borgerding, L.A., & Caniglia, J. (2013, April). Embedding science education service learning into a preservice MAT science teacher program: Candidates' reflections. Poster presented at the annual meeting of the National Association for Research in Science Teaching, Rio Grande, Puerto Rico. 2013

Type: *National Refereed*

*Borgerding, L.A., Crowe, A., Hostetler, A., & Ghosh, R. (2013, January). Preservice science and social studies teachers' approaches to teaching science in a social context throughout a specialized STS methods course. Paper presented at the annual meeting of the Association of Science Teacher Education in Charleston, SC. 2013

Type: *National Refereed*

*Donnelly, L.A. (2012, April). A comparative case study of two high school biology teachers' evolution and nature of science teaching practices. Paper presentation at the annual meeting of the National Association for Research in Science Teaching, Orlando, FL. 2012

Type: *National Refereed*

*Borgerding, L.A., Crowe, A.R., Hostetler, A., Ghosh, R., Smith, D., & Fein, E. (2012, April). Situating science in a social context. Presentation at the National Science Teacher Association (Research Dissemination Conference), Indianapolis, IN. 2012

Type: *National Refereed*

*Donnelly, L.A., & Easter, E. (2012, April). Newton on the Cheap. Presentation at the annual meeting of National Science Teachers Association, Indianapolis, IN. 2012

Type: *National Refereed*

*Klein, V., & Borgerding, L.A. (2012, April). Hands-On Ecology. Presentation at the annual meeting of National Science Teachers Association, Indianapolis, IN. 2012

Type: *National Refereed*

*Akerson, V., Buck, G.A., Donnelly, L.A., Nargund-Joshi, V., & Weiland, I. (2012, April). The importance of teaching and learning nature of science in the early childhood years. Paper presentation at the annual meeting of National Science Teachers Association, Indianapolis, IN. 2012

Type: *National Refereed*

*Borgerding, L.A., & Sadler, T.S. (2012, January). Teachers' concerns about biotechnology education. Paper presentation at the annual meeting of the Association for Science Teacher Education, Clearwater, FL. 2012

Type: *National Refereed*

*Borgerding, L.A., Klein, V., Ghosh, R., & Eibel, A. (2012, January). Student teachers' approaches to teaching biological evolution. Poster presentation at the annual meeting of the Association for Science Teacher Education, Clearwater, FL. 2012

Type: *National Refereed*

*Crowe, A., Borgerding, L.A., Hostetler, A., & Ghosh, R. (2012, November). Science-Technology-Society: Teaching for democratic citizenship with socioscientific issues. Paper presented at the annual meeting of the National Council of Social Studies, Seattle, Washington 2012

Type: *National Refereed*

Borgerding, L.A., Shevock, E., & Deniz, H. (2012, April). Evolution acceptance and epistemological views of college biology students. Paper presentation at the annual meeting of the American Education Research Association, Vancouver, Canada. 2012

Type: *National Refereed*

*Borgerding (Donnelly), L.A., Ghosh, R., Klein, V., & Kulbago, L. (2011, October). College biology students' early evolution learning experiences: A preliminary analysis. Paper presented at the regional meeting of the North East Association of Science Teacher Education, Cornwall, NY. 2011

Type: *Regional Refereed*

*Sherman-Heckler, W., Donnelly, L.A., Easter, G., Reber, D., Richards, K, & Sell, B. (2011, February). Operation Physics. Presentation at the Science Education Council of Ohio State Conference, Akron, OH. 2011

Type: *State Refereed*

Donnelly, L.A., & Shevock, E. (2011, March). Evolution acceptance and epistemological views of college biology students. Paper presentation at the annual meeting of the National Association for Research in Science Teaching, Orlando, FL. 2011

Type: *National Refereed*

Donnelly, L.A., & Klein, V. (2011, March). Ohio biology teacher licensure requirements: Implications for evolution instruction. Poster presentation at the annual meeting of the National Association for Research in Science Teaching, Orlando, FL. 2011

Type: *National Refereed*

Donnelly, L.A., & Argyle, S. (2011, January). The influence of a physical science professional development on students' NOS views. Poster presentation at the annual meeting of the Association for Science Teacher Education, Minneapolis, MN. 2011

Type: *National Refereed*

Donnelly, L.A. (2011, accepted). High school biology teachers' evolution and nature of science teaching practices. Paper presentation at the annual meeting of the Association for Science Teacher Education, Minneapolis, MN. 2011

Type: *National Refereed*

Donnelly, L.A., & Shevock, E. (2010, March). Evolution acceptance and epistemological views of college biology students. Poster presentation at the annual meeting of the National Association for Research in Science Teaching, Philadelphia, PA. 2010

Type: *National Refereed*

Donnelly, L.A., & Argyle, S. (2010, January). Teachers' willingness to adopt NOS instructional strategies and activities following a physical science professional development. Poster presentation in at the annual meeting of the Association for Science Teacher Education, Sacramento Sacramento, CA. 2010

Type: *National Refereed*

Donnelly, L.A. (2010, January). Student teachers' approaches to teaching biological evolution. Paper presentation at the annual meeting of the Association for Science Teacher Education, Sacramento Sacramento, CA. 2010

Type: *National Refereed*

Donnelly, L.A., & Choi, A. (2010, March). Teachers' approaches to teaching biological evolution and the nature of science. Paper presentation at the annual meeting of the National Association for Research in Science Teaching, Philadelphia, PA. 2010

Type: *National Refereed*

Iannucci, M., & Donnelly, L.A. (2010, February). Teaching Evolution: Strategies and Activities. Presentation at the the Science Education Council of Ohio State Conference, Columbus, OH. 2010

Type: *State Refereed*

Easter, G., Donnelly, L.A., Christensen, S., & Reber, D. (2010, February). Newton on the Cheap. Presentation at the the Science Education Council of Ohio State Conference, Columbus, OH. 2010

Type: *State Refereed*

Akerson, V. L., Donnelly, L. A., Riggs, M. L. & Eastwood, J. L. (2009, April). Supporting preservice elementary teachers' nature of science instruction. Paper presented at the annual meeting of the National Association for Research in Science Teaching, Garden City, CA. 2009

Type: *National Refereed*

Donnelly, L. A. (2009, January). State standards for evolution: Views of Ohio high school biology teachers. Paper presentation at the annual meeting of the Association for Science Teacher Education, Hartford, CT. 2009

Type: *National Refereed*

Akerson, V.L., Donnelly, L.A., Riggs, M.L, & Eastwood, J.L. (2009, April). Supporting preservice elementary teachers' nature of science instruction. Paper presentation at the annual meeting of the National Association for Research in Science Teaching, Garden City, CA. 2009

Type: *National Refereed*

Donnelly, L. A. & Akerson, V. L. (2008, April). *High School Biology Students' Evolution Learning Experiences.* Paper presentation at the annual meeting of National Association for Research in Science Teaching, Baltimore, MD. 2008

Type: *National Refereed*

Akerson, V. L. & Donnelly, L. A, (2008, April). *Teaching Nature of Science to K-2 Students: What can they gain from instruction and what influences changes in their views?* Paper presentation at the annual meeting of National Association for Research in Science Teaching, Baltimore, MD. 2008

Type: *National Refereed*

Donnelly, L. A., & Sadler, T. S. (2008, January). *Indiana high school science teachers' views of standards and accountability: "Is it better to feed the hogs or to weight 'em?"* Paper presentation at the annual meeting of Association for Science Teacher Education. St. Louis, MO. 2008

Type: *National Refereed*

Oliveria, A., Donnelly, L. A, Akerson, V., Colak, H., & Pongsanon, K. (2008, January). *Teachers-students interaction: Drawling cor* 2008
*Teachers-students interaction: Drawling connections among classroom discourse, scientific inquiry, modeling and explicit NOS instruction.*Workshop presentation at the annual meeting of Association for Science Teacher Education. St. Louis, MO.

Type: *National Refereed*

Deniz, H., Donnelly, L. A., & Phillipson-Mower, T. L. (2008, January). *Relationships of Preservice Secondary Science Teachers' Acceptance of Evolutionary Theory, Personal Epistemology, Actively Open-Minded Thinking, and Understanding of Evolutionary Theory.* Paper presentation at the annual meeting of Association for Science Teacher Education. St. Louis, MO. 2008

Type: *National Refereed*

Akerson, V. L., & Donnelly, L. A. (2008, January). *Relationships Among Learner Characteristics and Preservice Elementary Teachers' Views of Nature of Science.* Paper Presentation at the annual meeting of Association for Science Teacher Education. St. Louis, MO. 2008

Type: *National Refereed*

Akerson, V. L., & Donnelly, L. A. (2008, January). *Relationships Among Learner Characteristics and Preservice Elementary Teachers' Views of Nature of Science.* Paper presentation at the annual meeting of Association for Science Teacher Education. St. Louis, MO. 2008

Type: *National Refereed*

Donnelly, L. A. (2008, December). Nature of Sciences in Hands-On Physical Science Activities. Presentation at the National Science Teacher Association Regional Conference, Cincinnati, OH. 2008

Type: *Regional Refereed*

Easter, G., Donnelly, L. A. (2008, December, Accepted). Newton on the Cheap. Presentation at the National Science Teacher Association Regional Conference, Cincinnati, OH. 2008

Type: *Regional Refereed*

Donnelly, L. A., Walker, A., Scharver, F., Klein, V., & Weber, O. (2008, February) Life Science Learning Cycles: Genetics and DNA in a New Way, Presentation at the Science Education Council of Ohio Sate Conference, Akron, OH. 2008

Type: *State Refereed*

Donnelly, L.A., Kazempour, M., & Amirshokoohi, A. (2007, April). Student perceptions of evolution instruction: interrelationships of understanding, acceptance, and learning experiences. Paper presentation at the annual meeting of National Association for Research in Science Teaching, New Orleans, LA. 2007

Type: *National Refereed*

Donnelly, L.A., & Akerson, V.L. (2007, April). Intersections of evolution, NOS, and the demarcation of science from non-science: the views from a high school biology classroom. Poster presentation at the annual meeting of National Association for Research in Science Teaching, New Orleans, LA. 2007

Type: *National Refereed*

Akerson, V.A., Buzzelli, C., & Donnelly, L.A. (2007, April). The relationship of cultural values, intellectual levels and preservice teachers views of nature of science. Paper presentation at the annual meeting of National Association for Research in Science Teaching, New Orleans, LA. 2007

Type: *National Refereed*

Donnelly, L.A., & Caylor, E. (2007, January). Completion of a college-level evolution course: teacher preparation and practices, biology licensure requirements, and evolution course content. Paper presented at the annual meeting of Association of Science Teacher Education, Clearwater Beach, FL. 2007

Type: *National Refereed*

Donnelly, L.A., Kazempour, M., & Amirshokoohi, A. (2007, April). Student perceptions of evolution instruction: interrelationships of understanding, acceptance, and learning experiences. Paper presentation at the annual meeting of National Association for Research in Science Teaching, New Orleans, LA. 2007

Type: *National Refereed*

Donnelly, L.A., & Akerson, V.L. (2007, April). Intersections of evolution, NOS, and the demarcation of science from non-science: the views from a high school biology classroom. Poster presentation at the annual meeting of National Association for Research in Science Teaching, New Orleans, LA. 2007

Type: *National Refereed*

Akerson, V. L., Buzzelli, C., & Donnelly, L. A. (2007, November). *On the Nature of Teaching the Nature of Science: Preservice Early Childhood Teachers' Instruction in Preschool and Elementary Settings.*Poster presentation at the annual meeting of National Association for Research in Science Teaching, Baltimore, MD. 2007

Type: *National Refereed*

Akerson, V. L., Buzzelli, C., & Donnelly, L. A. (2007, November). *On the Nature of Teaching the Nature of Science: Preservice Early Childhood Teachers' Instruction in Preschool and Elementary Settings.*Paper presentation at the annual meeting of School Science and Mathematics Association, Indianapolis, IN. 2007

Type: *National Refereed*

Donnelly, L.A. (2006, January). Exploring the Nature of Science. Seminar presented in G311 Introduction to Research Methods in Geography in the Department of Geography at Indiana University- Purdue University, Indianapolis (IUPUI), Indianapolis, IN. 2006

Type: *Local Invited*

Donnelly, L.A., & Nelson, C. (2006, February) Evolution and Intelligent Design: Fundamentals and Pedagogical Strategies. Presentation for the Indiana University Progressive Faculty Forum, Bloomington, IN. 2006

Type: *Local Invited*

Donnelly, L.A. (2006, January). Completion of an evolution course: teacher practices and biology licensure requirements. Paper presented at the annual meeting of Association of Science Teacher Education, Portland, OR. 2006

Type: *National Refereed*

Hanson, D.L., Akerson, V.L., Donnelly, L.A., Tira, P., Townsend, J.S., White, O. (2006, January). SMIT\'N - a collaborative approach to grant writing and professional development. Paper presented at the annual meeting of Association of Science Teacher Education, Portland, OR. 2006

Type: *National Refereed*

Townsend, J.S., Akerson, V.L., White, O., Tira, P., Donnelly, L.A., & Hanson, D.L. (2006, April). Scientific Modeling for Inquiring Teachers Network (SMIT'N): the influence on elementary teachers' views of science content, nature of scientific inquiry, and modeling. Paper presented at the annual meeting of National Association for Research in Science Teaching, San Francisco, CA. 2006

Type: *National Refereed*

Deniz, H., Donnelly, L.A., & Yilmaz, I. (2006, April). Acceptance of biological evolution among Turkish preservice biology teachers. Poster presented at the annual meeting of National Association for Research in Science Teaching, San Francisco, CA. 2006

Type: *National Refereed*

Donnelly, L. A., & Nelson, C. (2006, February) *Evolution and Intelligent Design: Fundamentals and Pedagogical Strategies.* Presentations for the Indiana University Progressive Faculty Forum, Bloomington, IN. 2006

Type: *National Invited*

Donnelly, L. A. (2006, January). *Exploring the Nature of Science.* Seminar presented in G311 Introduction to Research Methods in Geography in the Department of Geography at Indiana University-Purdue University, Indianapolis (IUPUI), Indianapolis, IN. 2006

Type: *National Invited*

Phillipson-Mower, T., Akerson, V. L., Donnelly, L., Deniz, H., & Hanson, D. L. (2005, April). Introducing nature of science into the science methods classroom. Paper presented at the annual meeting of National Science Teachers Association, Dallas, TX. 2005

Type: *National Refereed*

Donnelly, L.A., & Hanson, D.L. (2005, April). The wonderful world of color. Paper presented at the annual meeting of National Science Teachers Association, Dallas, TX. 2005

Type: *National Refereed*

Boone, W.J., Harber, J., & Donnelly, L.A. (2005, April). The National Aquarium, at-risk students, and science teaching. Poster presented at the annual meeting of National Association for Research in Science Teaching, Dallas, TX. 2005

Type: *National Refereed*

Sadler, T.D., & Donnelly, L.A. (2005, April). Socioscientific argumentation: the effects of content knowledge and morality. Paper presented at the annual meeting of National Association for Research in Science Teaching, Dallas, TX. 2005

Type: *National Refereed*

Donnelly, L.A., & Boone, W.J. (2005, April). Indiana biology teachers: standards use, evolution acceptance, and evolution teaching practices. Paper presented at the annual meeting of National Association for Research in Science Teaching, Dallas, TX. 2005

Type: *National Refereed*

Phillipson-Mower, T., Hanson, D.L., Simonelli, G., Deniz, H., Donnelly, L.A., White, O., Townsend, J.S. (2005, November). Get your hands-on science with Saturday Science QUEST for kids program. Paper presented at the annual regional meeting of National Science Teachers Association Convention, Chicago, IL. 2005

Type: *National Refereed*

Donnelly, L.A. (2005, March). Indiana biology teachers: standards use, evolution acceptance, and evolution teaching practices. Paper presented at annual Indiana University Science Education Symposium, Bloomington, IN. 2005

Type: *Local Invited*

Phillipson-Mower, T., Sadler, T., Akerson, V. L., Hanuscin, D., Deniz, H., & Donnelly, L. A. (2004, February) Introducing the nature of science into the science methods classroom. Paper presented at the annual meeting of Hoosier Association of Science Teachers, Inc., Indianapolis, IN. 2005

Type: *State Refereed*

Phillipson-Mower, T., Akerson, V. L., Donnelly, L., Deniz, H., & Hanson, D. L. (2005, April). Introducing nature of science into the science methods classroom. Paper presented at the annual meeting of National Science Teachers Association, Dallas, TX. 2005

Type: *National Refereed*

Donnelly, L.A., & Hanson, D.L. (2005, April). The wonderful world of color. Paper presented at the annual meeting of National Science Teachers Association, Dallas, TX. 2005

Type: *National Refereed*

Boone, W.J., Harber, J., & Donnelly, L.A. (2005, April). The National Aquarium, at-risk students, and science teaching. Poster presented at the annual meeting of National Association for Research in Science Teaching, Dallas, TX. 2005

Type: *National Refereed*

Sadler, T.D., & Donnelly, L.A. (2005, April). Socioscientific argumentation: the effects of content knowledge and morality. Paper presented at the annual meeting of National Association for Research in Science Teaching, Dallas, TX. 2005

Type: *National Refereed*

Donnelly, L.A., & Boone, W.J. (2005, April). Indiana biology teachers: standards use, evolution acceptance, and evolution teaching practices. Paper presented at the annual meeting of National Association for Research in Science Teaching, Dallas, TX. 2005

Type: *National Refereed*

Phillipson-Mower, T., Hanson, D.L., Simonelli, G., Deniz, H., Donnelly, L.A., White, O., Townsend, J.S. (2005, November). Get your hands-on science with Saturday Science QUEST for kids program. Paper presented at the annual regional meeting of National Science Teachers Association Convention, Chicago, IL. 2005

Type: *State Refereed*

Phillipson-Mower, T., Hanson, D. L., Simonelle, G., Deniz, H., Donnelly, L. A., White, O., Townsend, J. S. (2005, November). Get your hands-on science with Saturday Science QUEST for kids program. Paper presented at the annual regional meeting of National Science Teachers Association Convention, Chicago, IL. 2005

Type: *National Refereed*

Donnelly, L. A. (2005, March). *Indiana biology teachers: standards use, evolution acceptance, and evolution teaching practices.* Paper presented at annual Indiana University Science Education Symposium, Bloomington, IN. 2005

Type: *National Invited*

Donnelly, L. A. (2005, June). *Evolution and Creationism in the curriculum.* Seminar presented in Curriculum and Instruction course, Indiana University, Bloomington, IN. 2005

Type: *National Invited*

Donnelly, L. A. (2005, September-October). *Teaching about evolution.* Sequence of five seminars presented in M446 Secondary Science Methods, Indiana University Bloomington, IN. 2005

Type: *National Invited*

Donnelly, L.A. (2004, January). Evolution teaching: the use of state standards. Paper presented at the annual meeting of the Association for the Education of Teachers of Science, Nashville, TN. 2004

Type: *National Refereed*

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

Type: *National Refereed*

Donnelly, L.A. (2004, January). Evolution teaching: the use of state standards. Paper presented at the annual meeting of the Association for the Education of Teachers of Science, Nashville, TN. 2004

Type: *National Refereed*

Donnelly, L. A. (2004, September). *Teaching about evolution.* Seminar presented in M446 Secondary Science Methods, Indiana University Bloomington, IN. 2004

Type: *National Invited*

Service

Advisory Board, Faculty Advisory Committee **2013 - 2014**

Type: *Department*

Adjudication, Peer teaching reviewer **2013 - 2014**

Conducted peer teaching observations for 3 TLC pretenure faculty members

Type: *Department*

Representative, Faculty mentor **2013 - 2014**

Served as faculty mentor for two pretenure TLC faculty members.

Type: *Department*

Member, Curriculum and Instruction Ad Hoc Committee for Doctoral Socialization **2013 - 2013**

Type: *Department*

Representative, Graduate Faculty Representative **2013 - 2013**

Graduate Faculty Representative for Bryan Ashkettle's dissertation.

Type: *College*

Member, STEM Center Steering Committee **2013 - 2014**

Type: *College*

Reviewer, Evolution Education and Outreach **2013 - 2013**

Type: *National*

Chair, KSU Science Education Search Committee **2012 - 2013**

Type: *College*

Member, KSU Science Education Outreach Coordinator Search Committee **2012 - 2012**

Type: *College*

Member, KSU Presidential Task Force on Women in STEM Education and Research **2012 - 2012**

Type: *College*

Member, NARST Journal of Research in Science Teaching Awards Committee **2012 - 2014**

Type: *National*

Chair, KSU Science Education Search Committee **2011 - 2012**

Type: *College*

Member, University Research Council Research Proposal Review Committee **2011 - 2011**

Type: *College*

Guest Editor, Research Center for Educational Technology Journal **2010 - 2010**

Type: *University*

Chair, Science Education Search Committee **2010 - 2011**

Type: *Department*

Committee, Curriculum & Instruction Doctoral Program Review Committee **2010 - 2010**

Type: *Department*

Reviewer, International Journal of Science Education **2010 - 2010**

Type: *International*

Coordinator, National Association for Research in Science Teaching **2010 - 2012**

Strand 2 Conference Coordinator

Type: *National*

Member, Curriculum and Instruction Doctoral Program Curriculum Review Committee **2010 - 2011**

Type: *Department*

Committee, University Research Council Research and Creativity Award Committee **2009 - 2009**

Type: *University*

Reviewer, Science Education **2009 - 2013**

Type: *National*

Committee, Association for Science Teacher Education **2009 - 2011**

Publications Committee Member

Type: *National*

Chair, ADED Selective Admissions Committee **2008 - 2010**

Type: *Department*

Committee, TLCS Curriculum Committee **2008 - 2009**

Type: *Department*

Committee, Curriculum & Instruction Doctoral Travel Awards Committee **2008 - 2010**

Type: *Department*

Committee, College Awards Committee **2008 - 2009**

Type: *College*

Workshops, Operation Physics **2008 - 2008**

Operation Physics for Middle School Teachers, Akron, OH. (August, 2008). Directed and presented spysical science and nature of science lessons to in-service elementart, middle, and high school teachers.

Type: *Regional*

Workshops, Porter Center for Science and Mathematics **2008 - 2008**

Painesville, OH. (August, 2008). Presented workshop entitled, "Ecology" for elementary science teachers.

Type: *Regional*

Reviewer, National Science Teacher Association Regional Conference **2008 - 2008**

Type: *Regional*

Reviewer, International Journal of Environmental and Science Education **2008 - 2014**

Type: *National*

Editorial Boards, Journal of Environmental and Science Education **2008 - 2009**

Type: *National*

Editorial Board, International Journal of Environmental and Science Education, Editorial Board Member **2008 - 2014**

Type: *National*

Committee, National Association for Research in Science Teaching Journal of Research in Science Teaching Awards Committee **2007 - 2010**

Type: *National*

Committee, Science Education Search Committee **2007 - 2008**

Type: *Department*

Reviewer, Association for Science Teacher Education (ASTE) conference proposals **2007 - 2009**

Type: *National*

Workshops, SMIT'N **2006 - 2006**

Blooomington, IN. (June, 2007). Presented six life science learning cycle lessons ("Fungi," "DNA," "Heredity," "Enzymes," and "Discourse Analysis: Hedging") to in-service elementary teachers.

Type: *Regional*

Workshops, SMIT'N **2006 - 2006**

Bloomington, IN. (June, 2006). Served as Scientific Modeling for the Inquiring Teacher Network (SMIT'N) K-6 Professional Development Program Summer 2006 Coordinator. Developed 30 hours of inquiry lessons on "Local Invasive Plants."

Type: *Regional*

Reviewer, Journal of Research in Science Teaching **2005 - 2008**

Type: *National*

Member, Indiana University Poynter Center Science and Democratic Public Life Committee **2005 - 2005**

Type: *University*

Member, Indiana University Science Education Search Committee **2005 - 2005**

Type: *University*

Workshops, SMIT'N **2005 - 2005**

Bloomington, IN. (June, 2005). Presented six life science learning cycle lessons ("Cells," "Endangered and Extinct," "Environment and Adaptation," "Flower Pollination," "Studying the Past," and "Too Many") to in-service elementary teachers.

Type: *Regional*

Workshops, Summer Korean Teacher Training Project **2005 - 2005**

Bloomington, IN (June, 2005). Facilitated programs for Korean in-service elementary teachers.

Type: *Regional*

Reviewer, National Association for Research in Science Teaching Strand 2 Learning: Classroom Contexts and Learner Characteristics conference proposals **2005 - 2013**

Type: *National*

Key Club Sponsor, Brown County High School **2001 - 2003**

Type: *University*

Graduate Advisor, Indiana University chapter of Golden Key National Honor Society **1998 - 2000**

Type: *University*

Community Service Chair, Indiana University chapter of Golden Key National Honor Society **1997 - 1998**

Type: *University*

Editorial Board, Journal of Science Teacher Education, Editorial Board Member **- present**

Type: *National*

Grants

PI, "Impact of Content-Rich Problems in Physics Education of Pre-Health Undergraduates." **2014 - 2017**

"Impact of Content-Rich Problems in Physics Education of Pre-Health Undergraduates." National Science Foundation. Research on Education and Learning (REAL) Grant. $446,833

Collaboration with: Borgerding, L.A., Lacueva, G., & Kulbago, L.

Submitted: $446,833.00 Status: Pending

National Science Foundation - Basic Research

PI, Operation Physics for Middle School Teachers **2012 - 2013**

Collaboration with: Donnelly, L.A. & Christensen, Stan

Awarded: $111,264.00 (0 0)

Ohio Board of Regents - Training

PI, Kent State University Noyce Scholars Program **2011 - 2016**

Collaboration with: Donnelly, L.A., Caniglia, J., Gleeson, J., Stalvey, J., & Tonge, A.

Awarded: $1,082,889.00 (0 0)

National Science Foundation - Applied Research

PI, Operation Physics for Middle School Teachers **2011 - 2012**

Collaboration with: Donnelly, L.A., & Christensen, S.

Awarded: $121,779.00 (0 0)

Ohio Board of Regents - Training

PI, Operation Physics for Middle School Teachers **2010 - 2011**

Collaboration with: Donnelly, L.A., & Christensen, S.

Submitted: $110,565.00 Status: Awarded

Awarded: $110,565.00 (0 0)

Ohio Board of Regents - Training

PI, High School Biology Teachers' Evolution and Nature of Science Teaching Practices **2009 - 2010**

Collaboration with: Donnelly, L.A.

KSU University Research Council Research and Creative Activity Half-Time Academic Year Appointment - Basic Research

PI, Operation Physics for Middle School Teachers **2009 - 2010**

Collaboration with: Donnelly, L.A., & Christensen, S.

Submitted: $120,003.00 Status: Awarded

Awarded: $120,003.00 (0 0)

Ohio Board of Regents - Training

PI, OPERATION PHYSICS for Middle School Teachers **2008 - 2009**

Collaboration with: Donnelly, L.A., & Christensen, S.

Submitted: $135,900.00 Status: Awarded

Awarded: $135,900.00 (0 0)

Ohio Board of Regents - Training

Co PI, Instructional Games: A Novel Approach to Preparing Ohio Youth for science in the Third Frontier **2008 - 2009**

Collaboration with: Smith, S. & Donnelly, L.A.
Submitted: $50,000.00 Status: Awarded
Awarded: $50,000.00
Ohio Board of Regents - Applied Research

PI, Secondary Students Demarcations of Science and Evolution Learning Experiences **2006 - 2006**
Collaboration with: Donnelly, L.A.
Submitted: $1,000.00 Status: Awarded
Awarded: $1,000.00
Recruitment Admissions and Financial Aid Committee (RAFA). - Applied Research

Faculty Associate, Scientific Modeling for Inquiring Teachers Network (SMIT'N) **2005 - 2008**
Collaboration with: Akerson, V.L., Bonner, J., Schick, J., and Q612 Graduate Students
Submitted: $290,399.00 Status: Awarded
Awarded: $290,399.00
Indiana State Department of Education Math and Science Partnership Program - Training

PI, Student Perceptions of Evolution Instruction: Understanding, Acceptance, and Attitudes **2005 - 2005**
Collaboration with: Donnelly, L.A.
Submitted: $3,000.00 Status: Awarded
Awarded: $3,000.00 (0 0)
E. Wayne Gross Grant, Indiana University - Training

PI, Survey of Teacher Use of Standards and Evolution Teaching Practices **2004 - 2004**
Collaboration with: Donnelly, L.A.
Submitted: $3,000.00 Status: Awarded
Awarded: $3,000.00
E. Wayne Gross Grant, Indiana University - Applied Research