



College of Education, Health, & Human Services

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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 **08/2003 - 08/2007**
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

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*

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 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., Kazempour, M., & Amirshokohi, A. (In Press). High school students' perceptions of evolution instruction: Acceptance and evolution learning experiences. *Research in Science Education*.

Publication: *Journal Articles, Refereed*

Donnelly, L. A., & Akerson, V. L. (In Review). High school biology students' views of the intersections of evolution, NOS, and the demarcation of science from non-science. *Journal of Research in Science Teaching*.

Publication: *Journal Articles, Refereed*

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

Publication: *Journal Articles, Refereed*

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

Publication: *Journal Articles, Refereed*

Akerson, V. L., Buzzelli, C., & Donnelly, L. A. (In Press). 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*.

Presentations

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*

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 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. 2008

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 State Conference, Akron, OH. 2008
Type: *State Refereed*
- Donnelly, L.A., Kazempour, M., & Amirshokohi, 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: *International 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: *International Refereed*
- Donnelly, L.A., Kazempour, M., & Amirshokohi, 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: *International 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: *International 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: *International 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: *International 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: *International 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: *International 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: *International 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: *International 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: *International 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: *International 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: *International 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: *International Refereed*

- Donnelly, L. A. (2004, September). *Teaching about evolution*. Seminar presented in M446 Secondary Science Methods, Indiana University Bloomington, IN. 2004
Type: *National 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. 0
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. 0
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. 0
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. 0
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. 0
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. 0
Type: *National Refereed*
- Akerson, V.L., & Donnelly, L.A. (Accepted). 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. 0
Type: *National Refereed*
- Deniz, H., Donnelly, L.A., & Phillipson-Mower, T.L. (Accepted). 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. 0
Type: *National Refereed*
- Oliveira, A. Donnelly, L.A., Akerson, V., Colak, H., & Pongsanon, K. (Accepted). Teacher-student interaction: Drawing 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. 0
Type: *National Refereed*

Donnelly, L.A., & Sadler, T.S. (Accepted). Indiana high school science teachers views of standards and accountability: Is it better to feed the hogs or to weigh 'em? Paper presentation at the annual meeting of Association for Science Teacher Education. St. Louis, MO. Type: <i>National Refereed</i>	0
Akerson, V.L., & Donnelly, L.A. (Accepted). 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. Type: <i>National Refereed</i>	0
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. Type: <i>National Refereed</i>	0
Donnelly, L.A., & Akerson, V.L. (Accepted). High School Biology Students Evolution Learning Experiences. Paper presentation at the annual meeting of National Association for Research in Science Teaching, Baltimore, MD. Type: <i>National Refereed</i>	0

Service

Workshops, Operation Physics <i>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.</i> Type: <i>Regional</i>	2008 - 2008
Workshops, Porter Center for Science and Mathematics <i>Painesville, OH. (August, 2008). Presented workshop entitled, "Ecology" for elementary science teachers.</i> Type: <i>Regional</i>	2008 - 2008
Reviewer, National Science Teacher Association Regional Conference Type: <i>Regional</i>	2008 - 2008
Reviewer, Journal of Environmental and Science Education Type: <i>National</i>	2008 - 2009
Editorial Boards, Journal of Environmental and Science Education Type: <i>National</i>	2008 - 2009
Committee, National Association for Research in Science Teaching Journal of Research in Science Teaching Awards Committee Type: <i>National</i>	2007 - 2010
Reviewer, Association for Science Teacher Education (ASTE) conference proposals Type: <i>National</i>	2007 - 2009

- Workshops, SMIT'N** **2006 - 2006**
Bloomington, 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**
Responsibilities include reviewing manuscripts submitted for publication in Journal of Research in Science Teaching, the official journal of the National Association for Research in Science Teaching.
- 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 - 2009**
 Type: *National*
- Key Club Sponsor, Brown County High School** **2001 - 2003**
Fall 2001-Spring 2003. Organized and participated in student service projects including canned food drives, Angel Tree Christmas collection, Adopt-a-Highway roadside clean-ups, and school improvement projects.
 Type: *University*
- Volunteer, Wonderlab Museum** **1999 - 2000**
Assisted in students scientific explorations during Wonderlab events.
- Graduate Advisor, Indiana University chapter of Golden Key National Honor Society** **1998 - 2000**

August 1998 August 2000. Advised chapter officers of opportunities for chapter involvement in community and campus activities. Organized chapter events including volunteer events. Participated in Golden Key intramural sports teams, community service events, induction ceremonies, fund-raising events, intellectual development events, diversity awareness events, and social events.

Type: University

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

Organized and participated in events including a Bloomington Housing Authority house clean-up activity, Hoosier Hills Food Bank food-sorting activity, Ellettsville Community Center youth activity, Shelter Inc. youth activity, and Banneker Community Center youth activity. Presented a diversity awareness workshop at the 1998 Golden Key National Honor Society Great Lakes Regional Conference. Participated in social, diversity, publicity, intellectual development, fund-raising, and honorary member events.

Mentor, Big Brothers and Big Sisters of Monroe County **1995 - 2000**

Visited a local elementary student weekly for assistance in socialization and academic work. Assisted second-grade class on field trips. Developed engaging instructional activities to supplement reading, writing, and science assignments.

- present

Grants

Co 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

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

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



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