

Hanover College Department of Education Faculty Vitae – 2013

Laurie Bauer, Debbie Hanson, Kay Williams

LAURIE B. BAUER

Hanover College
Education Department
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EDUCATION

University of Cincinnati

Ed.D., Literacy and Second Language Studies, 2012

Dissertation: *Digital Divides and Literacy Learning: A Metaphor Analysis of Developmental College Students' and Teachers' Conceptualizations of Technology*

Certification: Postsecondary Literacy Instruction

University of Cincinnati

MEd, Literacy, 2005

Certification: K-12 Reading Endorsement

K-12 English as a Second Language

Ohio University

BA, Early Childhood Education, 2001

Certification: Early Childhood Education, Primary Education

EMPLOYMENT

Education Department, Hanover College

2012 – Present Assistant Professor

- Instructor of courses related to Literacy, Reading, Language Arts, Social Studies, Children's Literature and Inquiry into Education

Literacy and Second Language Studies in the School of Education, University of Cincinnati

2010 – 2012 Assistant Academic Director

- Instructor of Early Childhood Education, Curriculum and Instruction and Middle School Education courses
- Instructor of College Developmental Literacy Courses
- Program Management and Support for Faculty and Students

Center for Access and Transition in the College of Applied Sciences, University of Cincinnati

2009 – 2010 Promoted to Field Service Assistant Professor of Literacy

- Instructor of College Developmental Reading and Writing

2005 – 2009 Field Service Instructor of Literacy

- Instructor of College Developmental Reading and Writing

Center for Access and Transition in the College of Applied Sciences, University of Cincinnati

2004 – 2005 Graduate Assistant

- Instructor of College Developmental Reading and Writing
- Gathered data and information to support research and grant proposals

Cincinnati Public School District, Cincinnati, Ohio

2002 – 2004 Rothenberg Preparatory School

- Third Grade Classroom Teacher

2001 – 2002 Roberts Paideia Academy

- Third Grade Classroom Teacher

PUBLICATIONS

Watts-Taffe, S. & Bauer, L. (2013). Digital Literacy. In B. M. Taylor & N. K. Duke (Eds.) *Handbook on Effective Literacy Instruction* (Chapter 7). New York: Guilford Press.

Paulson, E. & Bauer, L. (2011). Goal Setting as an Integral, Yet Often Missing, Element of Metacognitive Reading Strategies. *NADE Digest*.

Bauer, L. & Johnson, C. (2011). A Retrospective Analysis: A View of JCLL in Educational Research. *Journal of College Literacy and Learning*, 37, 41-53.

Bauer, L. (2009). Utilizing Reading Conferences in a Developmental Reading Course. *NADE Digest*, 4(2), 41-48.

PROFESSIONAL ACTIVITIES

Peer-reviewed Presentations

International Reading Association, College Literacy and Learning Special Interest Group, Chicago, IL, May 2012. A Necessary Addiction: Student Conceptualizations of Technology and Its Impact on Teaching and Learning.

Teaching Academic Survival Skills Conference, Fort Lauderdale, Florida, March 2012: "If you don't have the time to read, you don't have the time or the tools to write." - Stephen King

International Reading Association, College Literacy and Learning Special Interest Group, Orlando, FL, May 2011. Digital Literacies: What They Can Tell Us about Our Students.

Spring Research Conference, Cincinnati, Ohio, April 2011: A Necessary Addiction: Student Conceptualizations of Technology and Its Impact on Teaching and Learning.

National Association for Developmental Education, Washington, DC, February 2011: Transferability of Out-of-School Digital Literacy Strategies to Academic Literacies.

College Reading and Learning Association, Salt Lake City, Utah, November 2010: A Necessary Addiction: Student Conceptualizations of Technology and Its Impact on Teaching and Learning.

College Reading and Learning Association, Salt Lake City, Utah, November 2010: College Literacy & Learning Special Interest Group of the International Reading Association: Membership and Publishing Opportunities.

International Reading Association, College Literacy and Learning Special Interest Group, Chicago, IL, May 2010. Teaching and Learning in a Postsecondary Developmental Literacy Classroom: A Metaphor Analysis Study.

Spring Research Conference, Lexington, Ky, April 2010: Transferability of Implicit Goal-Setting Processes for Out-of-School Digital Literacies

Teaching Academic Survival Skills Conference, Fort Lauderdale, Florida, March 2010: Metacognitive Awareness: Enhancing Reading Skills and Comprehension.

National Association for Developmental Education, Columbus, Ohio, March 2010: Metaphor Analysis in a Postsecondary Developmental Literacy Class.

Teaching Academic Survival Skills Conference, West Palm Beach, Florida, March 2009: Concept Mapping: An Individualized Strategy for Developmental Readers.

National Association for Developmental Education, Greensboro, North Carolina, February 2009: Utilizing Concept Mapping in the Developmental Reading Classroom.

National Association for Developmental Education, Boston, MA, February 2008: A Look at Paired Reading and Writing Developmental Courses.

Ohio Council of the International Reading Association: Literacy on the River, Cincinnati, Ohio, October 2007: Spontaneous Influences of Literacy.

International Reading Association, College Literacy and Learning Special Interest Group, Toronto, Ontario, May 2007: Reading from a Critical Stance: Discovering the Missing Voice.

Teaching Academic Survival Skills Conference, West Palm Beach, Florida, March 2007: Learner-Centered Activities for Improving Literacy Skills.

Greater Cincinnati Consortium of Colleges and Universities, Cincinnati, OH, March 2006: Teaching in Ten Minute Cycles.

Teaching Academic Survival Skills Conference (TASS), West Palm Beach, Florida, March 2006: Adapting and Implementing Literature Circles into the College Classroom.

AWARDS & HONORS

Nominated for the Darwin T. Turner Scholars Breakfast of Champions
University of Cincinnati, 2011

Nominated for the *Writing in the Profession* Workshop Series
University of Cincinnati, 2011

Nominated for Center for Access and Transition Outstanding Service Award
University of Cincinnati, 2009

Nominated for Center for Access and Transition Outstanding Full Time Faculty Teaching Award
University of Cincinnati, 2008

September Institute, Developmental Reading: Models of Success
University of Cincinnati, 2007

Nominated for Outstanding Center for Access and Transition Service Award
University of Cincinnati, 2007

Outstanding Graduate Student Award in Literacy
University of Cincinnati, 2006

Nominated for Who's Who Among America's Teachers, 2006

GRANTS

University Research Council Graduate Student Research Fellowship (\$3000), University of Cincinnati, 2011

Graduate Student Mentored Research Grant (\$1000), University of Cincinnati, 2011

Graduate Student Mentored Research Grant (\$750), University of Cincinnati, 2010

Faculty Development Grant (\$2350), University of Cincinnati, 2009

Faculty Development Grant (\$1850), University of Cincinnati, 2008

Faculty Development Grant (\$2774), University of Cincinnati, 2007

EDITORIAL

Editorial Board

Communications Chair for the International Reading Association, College Literacy and Learning Special Interest Group, 2009 -- current

Reviewer for the *Journal of College Literacy and Learning*, 2008 -- current

Student Reviewer for the 59th Yearbook of the National Reading Conference, 2010

SERVICE

Departmental Service

Coordinator of the Urban Experience, Education Department of Hanover College, 2012-Present

Coordinator of the Cross-Cultural Experience, Education Department of Hanover College, 2012-Present

University Service

Teacher Education Committee, Hanover College, 2012-Present

High School Summer Academy, Hanover College, 2012

Community Service

Regional Agency Program Review Committee, United Way of Greater Cincinnati, 2008 - current

COURSES TAUGHT

Graduate Courses

C&I 744: Education Technology: Social, Ethical, Legal, and Human Issues, School of Education, University of Cincinnati, Summer 2011. (Online Course)

Critical examination of technology and its impact on society and individuals from an ethical, legal, and social perspective.

LTCY 801P: Foundations of Postsecondary Literacy Instruction, School of Education, University of Cincinnati, Summer 2010. (Online Course)

Examines postsecondary literacy instruction from historical, theoretical, and pedagogical perspectives.

LTCY 802P: Methods of Postsecondary Literacy Instruction: Focus on Reading, School of Education, University of Cincinnati, Summer 2010. (Online Course)

Methods and techniques of literacy instruction at the postsecondary level with a focus on teaching reading.

Undergraduate Courses

EDU 101: Inquiry in Education, Education Department, Hanover College, Winter 2013

EDU 260: Children's Literature, Education Department, Hanover College, Spring 2013

EDU 302: Social Studies Teaching and Inquiry, Education Department, Hanover College, Fall 2012

EDU 305: Language Arts Teaching and Inquiry, Education Department, Hanover College, Fall 2012

EDU 333: Secondary Methods: Language Arts, Education Department, Hanover College, Winter 2013

EDU 461: Senior Seminar, Education Department, Hanover College, Fall 2012 & Winter 2013

C&I 247: Computer Tools for Teachers, School of Education, University of Cincinnati, Fall 2011.

This course encompasses effectively analyzing, designing, developing, implementing, and evaluating educational technology as an instructional resource in the classroom as related to principles of learning and assessment.

MDL 201: Introduction to Middle School Field Experience, School of Education, University of Cincinnati, Fall 2011.

Reflective seminar to discuss experiences of interactions in schools and/or with young people appropriate to the grade level license.

MDL 525: Improving Reading Through Literature, School of Education, University of Cincinnati, Fall 2011.
Course focuses on children's literature and its role in classrooms. Current theories and methods about integrating literature into all curriculum areas are discussed and demonstrated.

READ 103: Integrated College Reading, School of Education, University of Cincinnati, Fall 2010 – Fall 2011.

A reading immersion class in which the focus is on intensive and extensive reading of a variety of narrative texts.

ECE 268: Special Topics - Preparatory College Literacy, School of Education, University of Cincinnati, Fall 2010. (Online Course)

Addresses the individual needs and supports the growth and development of college level readers and writers by creating a learning environment that lays equal stress on extensive and intensive strategies.

ENGL 097: Preparatory Reading and Writing II, Center for Access & Transition, University of Cincinnati, Fall 2004- Spring 2010

A more advanced integrated effort to help students develop proficiency in reading and writing. The writing component stresses basic essay writing skills, using narrative and expository writing, including response to text. The reading component stresses the comprehension skills of interpretation and analysis.

READ 095: The Reading Workshop, Center for Access & Transition, University of Cincinnati, Fall 2009 – Spring 2010

Addresses the individual needs of struggling college-aged readers in a workshop learning environment that lays equal stress on extensive and intensive reading approaches and experiences.

ENGL 095: Preparatory Reading and Writing I, Center for Access & Transition, University of Cincinnati, Fall 2004- Winter 2010

An integrated course to help students develop proficiency in reading and writing. The writing component stresses sentence and paragraph level skills, using experiential writing. The reading component stresses the comprehension skills of understanding literal facts and concepts, main and supporting ideas.

READ 099: Reading Academic Texts, Center for Access & Transition, University of Cincinnati, Winter 2010

A course to improve critical reading, comprehension and recall as applied to college textbooks. Reading strategies will be learned and applied to students' own textbook reading assignments from their other college courses.

PROFESSIONAL MEMBERSHIPS

College Reading and Learning Association

College Literacy and Learning/Special Interest Group of the International Reading Association

International Reading Association

DEBORAH L. HANSON

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Columbus, IN 47201
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Education

Doctoral	2006	Indiana University, Bloomington, IN Curriculum & Instruction / Science Education with biology as minor area Dissertation Topic: Personal Definitions of Science and the Self- Efficacy and Classroom Practice of Elementary School Teachers
M.S.	1991	Indiana University, Bloomington, IN Emphasis on Science Education
B.S.	1985	University of Illinois, Champaign-Urbana Secondary Education Emphasis in Life Science

Certification

State of Indiana: Professional License, grades 5-12
Primary Area: Biology
Supporting Areas: General Science, Physical Science and
Mathematics

Honors and Awards

2011	Tenure and promotion to Associate Professor of Education at Hanover College
2005	August Scrivner Award (given to graduate student who shows exceptional promise in working with elementary students and curriculum)
2004	Kappa Delta Pi induction
2004	E. Wayne Gross Memorial Fellowship Award
1999	Merit Status awarded at IUPUC campus
1998	Indiana University TERA Award (Teaching Excellence Recognition Award)
1997	Indiana University TERA Award (Teaching Excellence Recognition Award)

Professional Work Experience

- Current Associate Professor of Education, Hanover College, Hanover, IN
 Department Chairperson: 2009-present
 Elected to Steering Committee-2012-2014
 Courses Taught:
 Edu 221: Foundations of Education
 Edu 201/301: Inquiry in Education
 Edu 340: Early Child Literacy and Development
 Edu 461: Senior Seminar
 Edu 455/456: Student Teaching Supervisor
 Edu 260: Designing Environmental Curriculum
- 2009-present Associate Director of the Rivers Institute
 Summer 2006 Outside expert leading sessions for SMIT'N professional Development program; lessons focused on biology, inquiry, NOS and the learning cycle.
- 2002-2006 Indiana University-Purdue University at Columbus, Columbus, IN
 Adjunct Faculty
 Courses Taught:
 Q200: Introduction to Scientific Inquiry
 E328: Elementary Science Methods
 M301: Block II Math and Science Field Supervisor
 N108: Plants, Animals and the Environment (section designed for elementary education students)
 Student Teaching Supervisor
- Summer 2005 E518: Professional Development Seminar
 Inquiry and the Nature of Science
 Outside expert-lead sessions for SMIT'N professional development program-instructed biology lessons using modeling, inquiry and emphasizing the process skills
- 2004-2006 Project Coordinator, Science EDUCATES (Science Educator Development-Understanding Content and Teaching It Effectively). Duties include planning and implementing summer workshops, monthly workshops, classroom observations and support.
- 2002-2003 Indiana University, Bloomington, IN
 Assistant Instructor
 Courses Taught:
 Q200: Introduction to Scientific Inquiry
- 1998-2002 Kidscommons, Columbus Community Children's Museum, Columbus, IN- Education Coordinator
 In charge of developing and implementing standard-based outreach

Science programs to local elementary classrooms working extensively with elementary K-6 teachers.

- 1993-2002 Indiana University-Purdue University at Columbus, Columbus, IN
Adjunct faculty
Courses Taught:
N100: Contemporary Biology
Q200: Introduction to Scientific Inquiry
- 1985-1993 Seymour Middle School, Seymour, IN
General Science Teacher at the 7th and 8th grade level
Special Assignments:
Mentor Teacher (supervising first year teacher)
Student Teacher Supervisor
Cadet Teacher Supervisor
Department Head

Outreach Science Activities

- 2010-2013 Coordinator and Leader of Teacher Academy, Hanover College
Year Long Professional Development Project for Elementary Teachers
- 2008-2013 Science Day/Nights outreach events with local elementary schools
- 2010-2011 Lead Project WET science and literacy connections training with public libraries in Jeffersonville, IN and Jackson County, IN.
- 2007 STARS: 2-week professional development in science education with elementary teachers from Southwestern, E.O. Muncie, DuPont and Canaan Elementary Schools.
- 2006 Saturday Science instructor, Indiana University, Bloomington.
Literature and Science, K-2nd grade.
- 2005 Saturday Science instructor, Indiana University, Bloomington
Bugs and Slugs, K-2nd grade
- 2004 Saturday Science instructor, Indiana University, Bloomington
Working with preservice and elementary students, *Color My World, 3rd—5th grades.*
- 1993-2000 Involved in Continuing Education Program at IUPU Columbus
Teaching Super Saturdays, Summer Academy and Enrichment Week Youth Programs
Topics Taught:
The World of Color, Science Tie-Dye, The Hidden World, Life in The Ocean, Women in Science: a look at the world of a biologist, Super Sleuth, The Human Body

Service

- 2011-2012 Article Reviewer for *Journal of Science Education and*

	<i>Technology.</i>
2010-current	ISTEM facilitator and coordinator for Southeastern Indiana
2009-2012	Elected to Board of Directors of the Hoosier Association of Science Teachers, Incorporated (HASTI).
2009-current	State Facilitator for Project WET and Hoosier RiverWatch program, Indiana Department of Natural Resources, Division of Fish and Wildlife
2008-current	Reviewer for conference proposals for the annual meeting of the Association of Science Teacher Educators (ASTE).
2008-current	Member of the Professional Development Committee of the Association of Science Teacher Educators (ASTE). Responsible for selecting workshops for the annual meeting.
2007-2008	Reviewer for conference proposals for the annual meeting of National Association of Research in Science Teaching.
2007-current	Member, Co-chair and Chair of the Journal of Research in Science Teaching (JRST) publication award committee. Award distributed at the annual NARST meeting.
2007-current	Coordinated Science Day with preservice math and science students at E.O. Muncie Elementary.
2007	<i>The Pros and Cons of a Science Fair.</i> Invited speaker for the Rockcreek Elementary School Faculty. (Columbus, IN).
2007	<i>From Point A to Point B: Reflections on my first year as a college professor.</i> Invited keynote speaker for Indiana University Science Education Symposium. (Bloomington, IN).
2005 & 2006	Invited panelist for J705 Dissertation Proposal Writing Class. Judith Chafel, instructor.
2006	Invited Participant in Healthy Community Exhibit Planning and School Programs, kidscommons, Columbus, IN
2005-2006	Led inquiry based science lessons for ESL after-school club at Clifty Creek Elementary School, Columbus, IN.
2005	Science Education Department Brown Bag Seminar, <i>Using Science to Teach Language for English Language Learners (ELL).</i>
2005	Family Science Night presenter at McCormick's Elementary in Spencer, IN.
2005	Planned and orchestrated Flying WILD Bird Festival at Southside Elementary School, incorporating and leading preservice elementary education majors.
2004 & 2005	Coordinated efforts for preservice teachers to lead instruction for an all day all school festival, Make A Splash Day, Southside Elementary School, Columbus, IN, and Smith Elementary School, Columbus, IN.
2004	Guest speaker: Inquiry Science Teaching, MAT program, Dr. Carol Hossler, instructor
2004	Trained as Project WILD Facilitator, Indiana Department of Natural Resources, Fish and Wild Life Division

- 2004 Planned and orchestrated science activities for Southside Science Investigations incorporating preservice elementary education students, Southside Elementary School, Columbus, IN
- 2003 Strand II Reviewer, National Association for Research in Science Teaching, NARST, Reviewed proposals for annual meeting concerning contexts and learner characteristics
- 1999 & 2000 Coordinated efforts for preservice teachers to participate in Science Blitz, science festival for upper elementary students, Smith Elementary, Columbus, IN and Clifty Creek Elementary School

Invited Presentations

- Hanson, D.L. (2011). *Science and Literacy: A winning combination*. ISTEM workshop. IUPUC, Columbus, IN.
- Hanson, D.L. (2010). *Connecting to the Preservice Audience*. Project WET National Conference. McCormick's Creek State Park, Spencer, IN.
- Hanson, D.L. (2010). *Changing Science Standards in Indiana High Schools and their Impact in First Year Biology Students*. Annual Meeting of the Indiana College Biology Teachers Association (IACBTB), Hanover College, Hanover, IN.

Conference Presentations

- Hanson, D.L., McGarvey, L., Justice T. (2013). *Science and Literacy-the 5E Way*. Presentation at the annual meeting of Hoosier Association of Science Teachers, Inc. (HASTI). Indianapolis, IN.
- Hanson, D.L., Barrett T., (2012). *Science and Literacy-A Powerful Pair*. Presentation at the annual meeting of National Science Teachers Association (NSTA). Indianapolis, IN.
- Hanson, D.L. (2012). *HASTI Share-a-thon*. Presentation at the annual meeting of National Science Teachers Association (NSTA). Indianapolis, IN.
- Hanson, D.L., Barrett, T., Goode, J., Bennett, D. (2012). *Science and Literacy-A Powerful Pair*. Presentation at the annual meeting of the Reading Recovery Council of North America (RRCNA) conference. Columbus, OH.
- Hanson, D.L. (2012). *Changing the Culture of Science Teaching-One Teacher at a Time*. Presentation at the annual meeting of the Association of Science Teacher Educators (ASTE). (Clearwater Beach, FL).
- Hanson, D.L. (2011). *Transforming Lessons to be More Inquiry Based*. Extended Workshop presented at the annual meeting of the Hoosier Association of

Science Teachers (HASTI). (Indianapolis, IN).

Akerson, V.A., Cullen, T.A. & Hanson, D.L. (2011). *Action Research in Science Teacher Education (themed paper set)*. Presentation at the annual meeting of the Association for Science Teacher Educators (ASTE). (Minneapolis, MN).

Hanson, D.L. (2009). Learning about the River Up Close and Personal. Presentation at the annual meeting of ORBCRE. Hanover College, Hanover, IN.

Hanson, D.L. (2009). Investigating the Influence of an Alternative Field Experience on Preservice Self-Efficacy. Presentation at the annual meeting for the Association for Science Teacher Educators. (ASTE). (Hartford, CN).

Hanson, D.L. and Rubino, D. (2008). Using Cookies to Learn about NOS. Presentation at the regional conference for National Science Teacher Association (NSTA). (Cincinnati, OH).

Hanson, D.L., Rubino, D., Worcester, P., Bohman, D., Datillo, S., Pflaumer, J., Traylor, C. (2008). *Teachers teaching teachers: A model for Professional Development*. Presentation at the annual meeting of the Association for Science Teacher Educators (ASTE), (St. Louis, MO).

Rubino, D., Worcester, P., Hanson, D.L., Bohman, D., Datillo, S., Pflaumer, J., Traylor, C. (2008). *Seeing the forest AND the trees, animals, soil insects....* Presentation at the annual meeting of HASTI (Hoosier Association of Science Teachers, Inc.) (Indianapolis, IN).

Hanson, D.L., Akerson, V.A. & Cullen, T.A. (2007). *Teaching Nature of Science: Tips, Strategies, & Insight to Student Learning*. Presentation at the annual meeting of the National Science Teacher Association. (St. Louis, MO).

Akerson, V.A., Cullen, T.A. & Hanson, D.L. (2007). *Using Action Research to Enable Elementary Teachers to Teach Nature of Science Ideas to Elementary Students*. Presentation at the Annual meeting for the American Education Research Association. (Chicago, IL).

Hanson, D.L. (2007). *Influence of Personal Definitions of Science on Elementary Teacher's Science Teaching Self-Efficacy*. Presentation at the annual meeting of the National Association for Research in Science Teaching. (New Orleans, LA).

Sherwood, B & Hanson, D.L. (2007). *A Review and Analysis of the NSF Portfolio in Regard to Research on Science Teacher Education*. Presentation at the annual meeting of the Association for Science Teacher Education. (Clearwater Beach, FL).

Akerson, V.L., Hanson, D.L., & Cullen, T.A. (2007). *Preparing Elementary Teachers to*

use Action Research to Track the Effectiveness of their Instruction on Elementary Students' Views of Nature of Science. Presentation at the annual meeting of the Association for Science Teacher Education. (Clearwater Beach, FL).

- Hanson, D.L. (2007). *The Impact of Personal Definitions of Science on Elementary Science Practices.* Presentation at the annual meeting of the Association for Science Teacher Education. (Clearwater Beach, FL).
- Hanson, D.L. (2006, August). *Using Science as a Tool to Promote ELL Learning.* Presentation at the TACIT summer institute. East Chicago, IL.
- Hanson, D.L. (2006). *Using Science to Teach Literacy for ELL Learners,* Presentation at TACIT summer institute, Bloomington, IN.
- Hanson, D. L. (2006). *Guided Inquiry and NOS.* Accepted presentation for the National Science Teachers Association, Anaheim, CA.
- Akerson, V.L., Hanson, D.L. & Cullen, T.A. (2006). *Influence of an 18 Month Professional Development Program on Elementary Teachers' Views of Nature of Science and Teaching Practice.* Paper presented at the annual meeting of the National Association for Research in Science Teaching (NARST). San Francisco, CA.
- Akerson, V. L., Cullen, T. A., & Hanson, D. L. (2006, April). *Sustained professional development effects on K-6 teachers' nature of science and inquiry views and practice.* Paper presented at the annual meeting of the American Educational Research Association (AERA), San Francisco, CA.
- Townsend, J.S., Akerson, V.L., White, O., Tira, P., Donnelly. L., Hanson, D.L. (2006). *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 the National Association for Research in Science Teaching (NARST). San Francisco, CA.
- Hanson, D.L. (2006). *Personal Definitions of Science and the Self-Efficacy and Classroom Practice of Elementary School Teachers.* Presentation at Science Education Symposium, Indiana University.
- Hanson, D.L. & Hodapp, C. (2006). *A Successful Science Day Collaboration.* Presentation at the Annual Meeting of Hoosiers Association of Science Teachers Inc. (HASTI). Indianapolis.
- Hanson, D.L., Akerson, V.A., Donnelly, L.A., Townsend, J.S. & White, O. (2006). *Smit'n-A collaborative approach to grant writing and professional development.* Presentation at the annual meeting of the Association for Science Teacher Education. (Portland, OR).

- Akerson, V.L., Hanson, D.L. & Cullen, T.A. (2006). The influence of Guided Inquiry & Explicit Instruction on K-6 Teachers' NOS views. Presentation at the annual meeting of the Association for Science Teacher Education. (Portland, OR).
- Phillipson-Mower, T., White, O., Townsend, J.S., Hanson, D.L., Donnelly, L.A., Desin, H. (2005). *Expanding Science Opportunities to Elementary Students*. Presentation at the regional meeting of the National Science Teachers Association, Chicago, IL.
- Hanson, D.L. (2005, July). *Engaging Science and Language: A Winning Combination for ELL*, Presentation at the TACIT summer institute, Bloomington, IN.
- Phillipson-Mower, T., Akerson, V., Hanson, D., Desin, H., Donnelly, L. (April, 2005). Teaching NOS to Preservice Methods Students-A NARST sponsored presentation, Presentation at the National Science Teachers Association, Dallas, TX.
- Hanson, D.L. & Donnelly, L. (2005, April). *The World of Color*. Presentation at the annual meeting of the National Association of Science Teachers, Dallas, TX
- Hanson, D., Akerson, V., & Cullen, T.A. (2005, April). *The Influence of Guided Inquiry & Explicit Instruction on K-6 Teachers' NOS views*. Presentation at the annual meeting of National Association of Research in Science Teaching, Dallas, TX.
- Hanson, D.L. (2005). Presentation at the Science Education Symposium, Indiana University.
- Hanson, D., Akerson, V., Cullen, T. and Science Educates Team (2005, February). *A New View of Science: The Nature of Science*. Presentation proposal at the Annual meeting of the Hoosier Association of Science Teachers, Inc., Indianapolis, IN.
- Hanson, D. & Akerson, V. (2005, January). *From Modeling to Mentoring, A new view of science*. Presentation at the annual meeting of Association of Education for the Teachers of Science, Colorado Springs, CO.
- Hanson, D. and Steele, B. (2004, February). *The Science of Color*. Session presentation of the annual meeting of the Hoosier Association of Science Teachers, Inc., Indianapolis, IN.
- Hanson, D. (2003, February). *When All Else Fails, Get Moving!*. Session presentation at the annual meeting of the Hoosier Association of Science Teachers, Inc., Indianapolis, IN.
- Hanson, D. (1998, February). *Super Sleuth*. Session presentation at the annual meeting of the Hoosier Association of Science Teachers, Inc., Indianapolis, IN.

Hanson, D. (1994, February). *Skillfully Yours*. Session presentation at the annual meeting of the Hoosier Association of Science Teachers, Inc., Indianapolis, IN.

Grants Funded

Akerson, V.L., & Hanson, D.L. *Science EDUCATESs: Science Educator Development: Understanding Content and Teaching it Effectively to Students*. Received from Indiana Commission for Higher Education: Improving Teacher Quality to present/conduct research on teacher development project (project coordinator) \$120,000. 2004-2006.

Akerson, V.L., Bonner, J., Schick, J., & Q612 Graduate students. *Scientific Modeling for Inquiring Teachers Network (SMIT'N)*. Received from Indiana Commission for Higher Education: Improving Teacher Quality to present/conduct research on professional development project (on the grant writing and implementation team), \$330,000 2005-2008.

Grants Applications

Member of team generating the HHMI grant proposal (Howard Hughes Medical Institute) for Hanover College, summer 2011 and 2007.

Hanson, D.L., Weiss, G. Environmental Protection Agency Grant. December 2009.

Hanson, D.L., Hough, J. and Madison Consolidated School Corporation. Applied for Math and Science Partnership Grant through the State of Indiana. Three year grant for \$900,000+, December 2008.

Publications

Akerson, V.L., Cullen, T.A., and Hanson, D.L. (2010). Using Action Research to Engage K-6 Teachers in Nature of Science as Professional Development. *Journal of Science Teacher Education*, 21(8), 971-992.

Akerson, V.L., Cullen, T.A., and Hanson, D.L. (2010). Experienced teachers' strategies for assessing Nature of Science conceptions in the elementary school. *Journal of Science Teacher Education*, 21(5), 723-745.

Akerson, V.L., Cullen, T.A., and Hanson, D.L. (2009). Fostering a Community of Practice through a Professional Development Program to Improve Elementary Teachers' Views. *Journal of Research in Science Teaching*, 46(10), 1090-1113.

Rubino, D and Hanson, D.L. (2009, October). CSI for Trees: Dendrochronology gets upper elementary students thinking like scientists. *Science and Children*, NSTA publications.

- Akerson, V.L., Townsend, J.S., Donnelly, L.A., Hanson, D.L., and White, O. (2009). scientific modeling for inquiring teachers network (SMIT'N): The influence on elementary teachers' views of science, inquiry and modeling. *Journal of Science Teacher Education*. 20(1), 21-40.
- Sherwood, R.D. and Hanson, D.L. (2008). A review and analysis of the NSF portfolio research on science teacher education. *Electronic Journal of Science Education*, 12(1).
- Akerson, V.L., Hanson, D.L., & Cullen, T.A. (2007). The influence of guided inquiry and explicit instruction on K-6 teacher's views of nature of science. *Journal of Science Teacher Education*, 18, 751-772.
- Beilfuss, M. and Hanson, D.L. (2007). Using science as a tool to promote literacy for ESL students. *INTESOL*, 4(1), 34-42.
- Hanson, D.L. (2007). Personal definitions of science and the self-efficacy and classroom practice of elementary school teachers. Published dissertation.
- Hanson, D. L., & Akerson, V. L. (2006, November). Will an improved understanding of nature of science (NOS) improve elementary teachers' self-efficacy for science teaching?: A call for research. *Alberta Journal of Science Education*.
- Hitt, A., White, O. & Hanson, D. (2005, January). Popping the kernel. *Science Scope*.
- Hanson, D.L. & Akerson, V.L. (in press). Me-A science teacher? A look at the self-efficacy of elementary science teachers. *Journal of Science Teacher Education*.

Vita
Kay L. Williams, PhD

Education

<u>Degree</u>	<u>Date</u>	<u>Major</u>	<u>Institution</u>
B.A.	1970	Mathematics Teacher certification 7-12	University of Northern Colorado
M.A.	1976	Special Education Teacher certification K-12	University of Northern Colorado
Ph.D.	1999	Curriculum Studies	Indiana University, Bloomington
1990 – Current		Indiana Teacher License Mathematics 7-12 and Special Education K-12	

Professional Employment

<u>Date</u>	<u>Placement</u>	<u>Duties</u>
2000 - present	Hanover College Hanover, Indiana	Director of Teacher Education Associate Professor of Education Licensing Advisor (2013-)
1998-2000	Kidscommons The Columbus Community Children's Museum Columbus, Indiana	Executive Director
1994-1998	Bartholomew Consolidated School Corporation, Columbus, Indiana	Intersession Coordinator Title I Remediation Grant Coordinator
1997-1998	IUPU-Columbus, Indiana Undergraduate Study Skills	Adjunct Faculty
1991-1994	Indiana University School of Education, Bloomington Undergraduate education seminars Student teaching supervision Graduate special education	Associate Instructor
1975 -1990	Colorado Springs School District 11 Stratton Day Treatment & Education Hopkins School District, Minnetonka, Minnesota Jefferson County Schools, Golden, Colorado	Special Education Teacher (K-12)

1970-1975

Jefferson County Schools, Colorado

Mathematics and Science (7-12)

Professional Responsibilities and Preparation

Service to Hanover College Community

Committee for Learning and Teaching member and convener (2007-2010)
Committee for First-Year Programs member and convener (2008-10)
Diversity Task Force member (one year)
Teacher Education Committee member (2000-current)
Graduate programs task force (one year)
Volunteer for Learn Engage And Prepare (LEAP) registration sessions for First Year Students
Volunteer instructor for August Experience Common Reading sessions
Volunteer for Global Scholars competition for off-campus study scholarships
Volunteer for Benjamin Templeton Scholarship competition focusing on social justice issues
and recruitment of students from under-represented groups
Volunteer for Parent Day activities

Designer of Curricular Materials and Pedagogical Methods

Hanover College Department of Education

EDU 316 Secondary Curriculum, Instruction, & Assessment and supervision of practice teaching
EDU 335 Secondary Methods: Mathematics and supervision of practice teaching
EDU 455 Student Teaching supervision, secondary mathematics; supervision of K-12 student
teachers in Louisville, Cincinnati, Indianapolis, and Jefferson County, Indiana; seminar
planner
EDU 230 Teaching Diverse Learners (special education, multicultural education, English Language
Learners) and supervision of field experiences in special education settings
EDU 230 Off-Campus Study of Civil Rights Movement (Atlanta and Alabama) and supervision
of field experience in predominantly Black schools
EDU 101 Education Inquiry- Adolescent Identity Development and Adolescent Literacy

Indiana University, Bloomington School of Education

Supervision of field experience and Indianapolis student teaching (second career program)

Mentor and Program Evaluator for Panthers Teach (Clowes Foundation Grant)

Collaboration between Hanover College and Indianapolis High Schools (2003-06)

66 students of color were recruited as high school sophomores, juniors, or seniors to consider
teacher certification and a liberal arts education over four years of programming. I co-led
workshops in the high schools and students made several visits to Hanover College campus
each year. Scholarships were awarded to seniors who met College admissions requirements.
Participants in Panthers Teach were interviewed about their perceptions of teachers and teaching;
demographic data was gathered. Paper and presentation of program was made in April, 2007
at the annual Association Educational Research Association meeting in Chicago

Collaboration between Hanover College Haq Center and Jefferson County Public Schools in Louisville
(2013-)

I-STEM and National Council of Supervisors of Mathematics Trainee and Grant Developer for Mathematics Professional Development

Collaboration with Indiana mathematics teachers, especially in southern Indiana region, with I-STEM and Economic Development 2015 initiative (ECO 15), and with Indiana University School of Education and Indiana University Purdue University mathematics professors

Jefferson County mathematics classrooms participated in technology grant (Jefferson County Community Foundation) and agreed to ISTEM training during two summers. Demonstrations in actual classrooms with students and cooperating teachers and alongside Hanover College mathematics education candidates modeled possible mathematics that required collaboration, problem solving, higher cognitive tasks, algebraic habits of mind, and multiple representations.

Jefferson County Head Start Diversity Training for employees (August, 2012)

Hanover Community Preschool board member (2010-2012)

Board Member of Not-for-Profit School Community Agencies and Collaborations (1994-98)

Served as Board member for the Bartholomew County Big Brothers Big Sisters, the Lincoln Neighborhood Family Center, the Foundation for Youth, and for kidcommons community children's museum where I served two years as Executive Director. All Columbus, Indiana agencies depended upon community network between schools, families, family services in the county, area businesses, and a large volunteer pool.

Professional Development Presentations and Papers

- 2000-Current National and Indiana teacher certification accreditation compliance writer
- April 12, 2007 AERA Annual Meeting, Chicago, "If I Were a Teacher: Recruiting High School Students of Color to be Teachers"
- April 26, 2000 AERA Annual Meeting, New Orleans, "Computer-related Technologies and Curriculum: DisConnections"
- Dissertation: When Computers Teach Reading and Writing: A Matter of Teacher and First Grade Student Perspectives. An eighteen-month interpretive study of first graders who worked at personal computers in their daily classroom routine.
- 1996-1997 Co-presenter: National Year-Round Education Annual Conference, Florida, "Presenting YRE to the School Board"; and International Reading Association Annual Conference, Atlanta, Georgia, "Creating a Successful School Wide Plan".
- 1994 Collaborative Writer: The Institute for the Study of Developmental Disabilities, Bloomington, Adapting Curriculum and Instruction in Inclusive Classrooms: A Teacher's Desk Reference (published)
- 1992-1993 Co-presenter of papers at JCT Bergamo Conference on Curriculum Theory and Classroom Practice, "Fantasies and Seduction: The Current Educational Technology Movement"

(unpublished paper) and "Can We Talk? Coming to Know the Meanings of Curriculum"
(unpublished paper)

Co-presenter: Association for Educational Communication and Technology Convention,
New Orleans, Louisiana, "Formative Evaluation of the Restructuring Process as a
Professional Development Process in an Elementary School" (unpublished paper