**Martha M. Day, Ed.D. Curriculum** Vitae

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Scottsville, KY 42164 Telephone: 615-319-1099

**Education**

Tennessee State University, Doctor of Education Major Area; Education Administration, August 1998

Dissertation: ***A study of the current status of block scheduling programs employed in Tennessee public high schools Major Professor: Dr. Paul Caraher***

Austin Peay State University, Master of Arts in Education, Curriculum and Instruction, December 1993

Austin Peay State University, Bachelor of Science, Chemistry and Agriculture, August 1990

**Certifications and Licensures**

Tennessee Teacher Licensure**:** Chemistry, Biology, Physics, General Science, Earth and Space Science, K-12 Administrator and Career Ladder I

**Professional Experience**

**Associate Professor of Science Education,** School of Teacher Education,Western Kentucky University, Bowling Green, Kentucky, 7/2015-present

**SKyTeach Co-Director,** SKyTeach at Western Kentucky University, Bowling Green, Kentucky, 12/2010-present

**Master of Arts in Teaching Program Representative and Advisor**, Western Kentucky University School of Teacher Education, 5/2015-present

**Master of Arts in Teaching Chinese 2+1 Advisor,** Western Kentucky University School of Teacher Education, 5/2015-5/2016

**Executive Director,** GSKyTeach Partnership between Western Kentucky University and Jefferson County Public Schools 7/2011-3/2016

**Program Director,** GSKyTeach Partnership between Western Kentucky University and Jefferson County Public Schools 12/2010-6/2011

**Assistant Professor of Science Education,** School of Teacher Education,Western Kentucky University, Bowling Green, Kentucky, 8/2009-6/2015

Provides leadership to the GSKyTeach and SKyTeach faculty and staff in its daily operations and guides the agencies’ advisory boards in long term planning within the framework of its strategic plan. Serves as a liaison among the UTeach Institute, Western Kentucky University and other UTeach replication sites. Supervises and schedule workload assignments of professors and master teachers. Possesses management skills with budgets, grants, and contracting of services. Prepares state teacher certification, supervises clinical teacher experiences and advises students in associated programs. Driving influences on not only the organization but the surrounding community through STEM outreach activities.

**Assistant Professor, Chemistry & Science Education,** Utah Valley University, Orem, Utah, 8/2008-7/2009

Taught undergraduate courses in secondary science education to pre-service teachers and chemistry courses to allied health students.

**Adjunct Professor,** Austin Peay State University, Clarksville, Tennessee, 1/2000-5/2008

Taught undergraduate courses in animal science to agricultural science and pre-veterinary medicine students.

**Professional Development Coordinator, Wildfire Prevention Program,** 8/2005-12/2015

Implement teacher training workshops throughout the state of Tennessee for the Tennessee Department of Agriculture, Division of Forestry. Teaching KWL, technology, and inquiry learning aligned with state curriculum standards.

**Director of Designated Qualified Persons & Animal Welfare**, National Walking Horse Association, Lexington, Kentucky, 11/2006-2/2012

Supervise and train Designated Qualified Persons

Work as a liaison among horse industry organizations and the United States Department of Agriculture

**Science Teacher,** Metropolitan Nashville Davidson County Schools, Nashville, Tennessee

* **Whites Creek Comprehensive High School,** 8/1997-5/2008

Science Department Chairperson, Teaching Chemistry, Human Anatomy, Sponsored the school newspaper, coached the girls bowling team and freshman girls volleyball team, 2004 Nashville Section-American Chemical Society Teacher of the Year, WCHS Teacher of the Year 1999-2000

* **Assistant Principal, 12th grade and curriculum,** 8/2004-6/2005

Conducted teacher evaluations, compiled the school improvement plan, organized senior activities, graduation, supervised curriculum issues, special situation drills and student discipline

* **Science Technology Education Partnership Coordinator**, Professional-In-Residence, **Vanderbilt University**, 5/2001-6/2002

Developed curricula appropriate for videoconference lessons presented to 5-12 grade students

Directed science and technology workshops for teachers of grades 5-12

Supervised graduate students and teachers participating in grant projects

Administered and managed the Science Education Partnerships Award grant provisions at VUMC

* **Maplewood Comprehensive High School,** 8/1994-5/1997

Taught Chemistry and Physical Science, 21st Century Technology Classroom Teacher

**Physical Sciences Staff Writer,** Vision Learning, Inc. at City University of New York, 2/2002-12/2002

Designed web-based teaching lessons for freshman college-level, non-science major students Lessons integrate text, simulations, interactive exercises and external links for various physical science topics

**Counselor-Education Specialist,** U.S. Department of Education at Austin Peay State University, Clarksville, Tennessee, 2/1994-8/1994

Provided career, financial aid and educational information to post-secondary students

Coordinated an annual education exposition with over 50 post-secondary institutions attending

**Teacher,** Corrections Corporations of America, Nashville, Tennessee, 8/1993-2/1994

Taught Adult Basic Education and GED classes to prison inmates

**Teacher,** Academy for Academic Excellence, Clarksville, Tennessee, 8/1992-5/1993

Taught Special Needs Middle and High School General and Physical Science on an Adjunct Basis

**Instructor,** Upward Bound, Austin Peay State University, Clarksville, TN, 5/1993-5/1995

Taught and counseled students enrolled in the federally funded upward bound program

**Tutor/Counselor,** Student Support Services at Austin Peay State University, Clarksville, TN, 9/1991-6/1993

Advised students in developing effective study habits vital to college success

**Test Administrator,** Austin Peay State University Institutional Effectiveness, Clarksville, TN 8/1991-8/1993

Administered and proctored ACT-Comp college entrance and exit examinations

**Environmental Education Laboratory Manager,** APSU Farm Clarksville, TN 8/1992-12/1993

Monitored teaching facilities and maintained the farm buildings and equipment

**University Teaching**

**Western Kentucky University**

Graduate Courses:

* SMED 630 Action Research Seminar
* SMED 620 Collaborative Research to Improve Mathematics and Science Teaching
* SMED 560 Professional Learning Communities
* SMED 590 Teaching Internship
* SMED 589 Internship Seminar
* SMED 520 Management for Positive Learning Environments
* SMED 510 Knowing and Learning Mathematics and Science
* SMED 501 Designing Instructional Sequences in Secondary Math and Science
* TCHL 500 Foundations of Teacher Leadership (Online Course)
* EDU 544 Instructional Strategies (On-line course)
* EDU 590 Advanced Teaching Internship
* EDU 521 Implementing an Instructional Plan
* EDU 520 Planning for Instruction
* EDU 589 Teaching Internship
* EDU 522 Fundamentals of Differentiated Instruction
* EDU 570 Educational Assessment of P-12 Learners
* SEC 537/SEC 534 Seminar in Science Education/Seminar in Math Education

Undergraduate Courses

* SMED 470 Project Based Instruction in Math and Science (Interactive Video Services)
* EDU 489 Student Teaching Seminar
* SEC 453 Managing the Learning Environment
* ELED 406 Teaching Science in Elementary School (Interactive Video Services)
* MGE 385 Middle Grades Teaching Strategies (Interactive Video Services)
* SMED 320 Classroom Interactions

**Utah Valley University**

* CHEM, BIOL, GEOL, PHY 4200 Teaching Methods in Secondary Science
* EDSC 4850 Supervision of Secondary Science Student Teachers/Interns
* CHEM 1110 Elementary Chemistry for the Health Sciences
* CHEM 1120 Elementary Organic and Biochemistry

**Austin Peay State University**

* AGRI 4020 Agriculture Seminar
* AGRI 492I Ethics of Animal Use
* AGRI 492O Equine Evaluation and Judging
* AGRI 492C Management of the Companion Animal
* AGRI 3350 Equine Production and Management

**Referred Journal Articles**

Cribbs, J.D., Day, M.M., Duffin, L.C. & Cowley, K. (under review, November 2016). Mathematics and Science Teacher Training Program Improves Inquiry Practices for Teachers. *The* *Journal of Experimental Education.*

Duffin, L. C., Starling, M. P.\*, Day, M. M. & Cribbs, J. D. (2016), The Effects of a Consumer Chemistry Intervention on Urban At-Risk High School Students’ Performance, Utility Value, and Intentions to Pursue STEM. School Science and Mathematics, 116: 356–365. doi:10.1111/ssm.12188

Day, M. M., Duffin, L. C., Starling, M.P.\* & Cribbs, J. D. (2016), Research to practice article:  When will I ever use chemistry in my life?  A classroom intervention establishing the relevance of chemistry to urban high school students. School Science and Mathematics. 116: 1-3. doi: ssm12188-sup-0001-si.pdf

Day, M., Ignash, M.\* & Smith, L.\* (2013). “5E Learning Cycle and the Gas Laws: Constructing

and Experimenting with a Ping Pong Popper.” *Journal of Laboratory Chemical Education, 3(5).* DOI: 10.5923/j.jlce.20130104.02

Day, M*.* & Suzuki, T. (2012/2013).“Developing Critical Thinkers through Inquiry Explorations

and Quality Children’s Literature”. *Kentucky Reading Journal, 28-35*.

Day, M., Stobaugh, R., Tassell, J. & Neiman, N.\* (2012). Creating science assessments that

support inquiry. *Science Scope, 42-47.*

Stobaugh, R., Day, M. & Tassell, J. (2011). Boosting cognitive complexity in social studies assessment questions, *Social Studies and the Young Learner, 23(3).*

Day, M. & Madden, P. (1997). “Gangs and youth violence raise questions for school administrators”, *Tennessee Educational Leadership,* 24(1), 40-43.

Day, M., Ivanov, C. & Binkley, S. (1996) “Tackling block scheduling: How to make the most of longer classes”, *The Science Teacher, 63*(6), 25-27.

**Refereed Conference Proceedings**

Day, M., Cardenas, S. & Westbrook, B. (2013). Expanding UTeach to Community

Colleges and Satellite Campuses, Proceedings of the 2013 UTeach National

Conference, Austin, TX. <http://uteach-insttute.org/annual-conference/>

Cowley, K. & Day, M. (2012). Building Relationships, Sharing Responsibilities, and

Making It Relevant: Implementing and Evaluating an Alternative Teacher Certification

Program for STEM Disciplines in Kentucky’s High-Need High Schools, American

Evaluation Association Annual Meeting, Minneapolis, MN, <http://comm.eval.org/eval/resources/viewdocument?DocumentKey=d7e984f9-855e-4a4a-879d-520170c773af>

McShane, J., Day, M., Case, S., & Bailey, B. (2012). Expanding UTeach to Community Colleges

And Satellite Campuses, Proceedings of the 2012 UTeach Conference, Austin, TX,

<http://uteach-institute.org/annual-conference/>

Day, M., Breach, D., Rudloff, M., Patel, A., Neiman, N., & Barba, S. (2012). SKyTeach: The

5E’s of Replication, Proceedings of the 2012 UTeach Conference, Austin, TX,

<http://uteach-institute.org/annual-conference/>

Day, M., Rudloff, M. & Barba, S.\* (2011).Project-based Learning: Preparing Students to Solve Real World Problems in STEM Disciplines, Proceedings of the 2011 UTeach Conference Austin, TX, <http://uteach-institute.org/conference/detail/annual-conference/>.

**Book Chapters**

Tyler, R., McDaniel, K., Day, M., & Evans, S. (2015). Chapter V: Next Generation Science

Standards (NGSS), General Education, and Teacher Preparation. In Dorie Combs and Gini Fair, Eds., *Meet Me at the Commons: A Field Guide to the Common Core Standards in Higher Education,* ISBN: 1-58107-278-3; 192 (242 pages). Stillwater, OK: New Forums Press, Inc.

Day, M. (2012). Science: Differentiation through Agendas and Centers. In Julia Link Roberts, Ed.D., and Julia Roberts Boggs, *Differentiating Instruction with Centers in the Gifted Classroom*  (pp. 75-96) Waco, TX: Prufrock Press.

Day, M., Ivanov, C. & Binkley, S. (1996). “Tackling Block Scheduling: How to Make the Most of Longer Classes”, In *Block Scheduling: Teaching Strategies for the Restructured School Day.* (pp.7-9), Arlington, VA: National Science Teachers Association.

**Magazine Articles**

Day, M. (Fall 2011). WKU Graduates the first cohorts of SKyTeach & GSKyTeach Science and

Mathematics Teachers, *CEBS Magazine, The College of Education and Behavioral*

*Sciences at WKU*

Day, M. (2004). The Horse Protection Act, *The Horse*, article #5099.

Day, M. (2003). The World of the DQP, *The Gaited Horse*, 6(4), 45-49.

Ivanov, C. & Day, M. (1997). Charmed Particles, *Newsletter of the Eisenhower Math/Science Consortium at AEL*, 5(1), 6-7.

**Other Publications**

Day, M. (2006). Cancer Biology Legacy Cycle Teaching Module, Vanderbilt University Biomedical Engineering Research Experiences For Teachers, 28 pp.

Day, M. & McBroom, S. (2003). Teaching in the “ER” (Emergency Classroom), Emergency Lesson Plan Strategies for Science Teachers of grades 5-12.

Day, M. & McBroom, S. (2001). *Renaissance Teacher Work Sample: Effective Pre-Service Teacher Preparation*, 4-week Pilot Unit Plan Prepared for Middle Tennessee State University.

**Software Development**

Shepherd, V., Day, M., McBroom, S. (2000). *Genetics: Spiraling Into the Future*, An Interactive Genetics CD for Middle and High School Students, Vanderbilt University

Shepherd, V., Metzgar, V., McBroom, S., Day, M.M., et.al. (1999).  *Brainstorm***,** An Interactive Neuroscience CD for Middle and High School Students, Vanderbilt University

**Book Reviews**

Day, M. (2015). [Review of the book *Children’s Ways with Science and Literacy,* by M. Varelas

& C. Pappas] Teachers College Record. [www.tcrecord.org](http://www.tcrecord.org)

**Grants**

KY NSF EPSCoR, “SOLAR SCIENCE: A Workshop for Middle School Science Teachers in

Preparation for the 2017 Solar Eclipse, Pesterfield, L. (Principal Investigator),

Day, M., Tyler, R. & Poteet, C. (Co-Principal Investigators), Western Kentucky University,(Proposal Number 16-0282, Funding Requested, $14,400, June 2016, under review).

National Science Foundation RUI: Physiology of Sleep and Assessment of the Costs of

Experimental Sleep Loss in Arctic-Breeding Songbirds, Ashley, N. (Principal

Investigator), Day, M. (Co-Principal Investigator), Western Kentucky University,

(Proposal Number: 7595581 , Funding Requested, $1,206,310, July 2015, funded)

Kentucky Department of Education Inquiry, Projects, and Makerspaces: Bringing Math and

Science to Life, Cribbs, J.D. (Principal Investigator), Day, M.M. (Principal Investigator 7/1/2016), Tassell, J., & Pesterfield, L.L. (Co-Principal Investigators), Western Kentucky University,(Proposal Number: 15-0257, Funding Requested, $394,754, August 2015, funded).

National Science Foundation IUSE,“Competency-Based Manufacturing Education with Mobile

Manufacturing at Western Kentucky University”, Arbuckle, G. (Principal

Investigator), Doggett, M., Day, M., Daday, J., & Muhammed, J. (Co-Principal

Investigators), Western Kentucky University, (Proposal Number: 7544174, Funding Requested, $2,860,315, January 2015, not funded).

United States Department of Education, Teacher Quality Partnership, “GSKyTeach: An

Innovative Teacher Residency Program to Prepare Math and Science Teachers for service in High-Need, Rural High Schools in Kentucky, , Day, M. (Principal Investigator), Western Kentucky University, Proposal Number: 15-0010, funding requested

$ 5,480,553, July 2014, not funded)

Verizon Innovative Technology Learning in Higher Education, Day, M., Principal Investigator, Pesterfield, L., Co-Principal Investigator, Western Kentucky University, (Proposal Number: 12-0165, Funding Requested, $14,175, March 2014, not funded)

Kentucky Council on Postsecondary Education Improving Educator Quality Year 12, “IEQ Year 12”, Day, M. & Pesterfield, L., Co-Principal Investigators, Western Kentucky University, (Proposal Number: 14-0047, Funding Requested, $150,000, September 2013, not funded)

National Science Foundation MSP Targeted Partnership, “STEM Teach”, Day, M. (Principal

Investigator), Pesterfield, L., McDaniel, K., Cassady, K., Wilson, S. (Co-Principal

Investigators), Western Kentucky University, (Proposal Number: 7329519, Funding Requested, $7,564,004, December 2012, not funded)

Kentucky Council on Postsecondary Education Improving Educator Quality Year 12, “Changing the Equation in Middle School Mathematics: A Problem Based Approach to Instruction”, Day, M. & Pesterfield, L., Co-Principal Investigators, Western Kentucky University, (Proposal Number: 14-0047, Funding Requested, $149,777, September 2012, not funded)

National Science Foundation, MSP Targeted Partnership, “STEM Teach”, Day, M. (Principal

Investigator), McDaniel, K., Kessler, B., Moody, V. (Co-Principal Investigators),

Western Kentucky University, (not funded-Funding Requested, $7,000,000, March 2012)

National Science Foundation, MSP Targeted Partnership, “School Teach”, Moody, V., Day, M., Johnson, H. (Principal Investigators), Western Kentucky University, (not funded-Funding Requested, $10,000,000, October 2010)

United States Department of Education, Teacher Quality Partnership, “Graduate Southern Kentucky Teach”, Pankratz, R. & Day, M. (Principal Investigators), Western Kentucky University, funded for $ 5,400,000, October 2009)

National Science Foundation, Robert Noyce Teacher Scholarship Program, “WKU Science and

Mathematics Alliance for Recruitment and Retention of Teachers (SMARRT) Program”, Marchionda, H., McDaniel, K., Day, M. & Tassell, J. (Co-Principal Investigators), Western Kentucky University, (funded for $898,781, June 2009)

National Mathematics and Science Initiative, “Replicate UTeach at Western Kentucky

University (SKyTeach Program), Bonham, S. (Principal Investigator), Day, M. and

Erbach, D. (Co-Directors), Western Kentucky University (funded for $2,400,000,

November 2007)

National Park Foundation, Parks As Resources for Knowledge Teachers Program Toyota USA Foundation, “Pre-Service Teacher Training at Capitol Reef Field Station”, H. Trong, R. VanBuren & M. Day (Principal Investigators), Utah Valley University, (not funded- Funding Requested $90,000, December 2008)

National Institutes of Health Grant, “Biomedical Research Experiences for Teachers”, S. Klein (Principal Investigator), Teacher Participant in Medical Imaging, Vanderbilt University, June/July 2006

National Institutes of Health Grant, “Pharmacology Education Partnership”, R. Schwartz-Bloom (Principal Investigator), Teacher Participant in Field Testing Curriculum, Duke University, June 2003

National Institutes of Health Grant, “Developing Interactive Technology for Teaching the Life Sciences (Developmental Biology)”, V. Shepherd (Principal Investigator), M. Day & S. McBroom, Vanderbilt University Medical Center (funded for $40,000, December 2000)

Dwight D. Eisenhower Mathematics and Science Education Act, “Developing Interactive Technology for Teaching the Life Sciences (Genetics)”, V. Shepherd (Principal Investigator), M. Day & K. Lee, Vanderbilt University Medical Center (funded for $40,000, December 1999)

Dwight D. Eisenhower Mathematics and Science Education Act, “Developing Interactive Technology for Teaching the Life Sciences (Neuroscience)”, V. Shepherd(Principal Investigator), V. Metzgar, S. McBroom & M. Day, Vanderbilt University Medical Center (funded for $24, 000, December 1998)

Dwight D. Eisenhower Mathematics and Science Education Act, “Training in Operation Chemistry: A Training Initiative for 4th-8th Grade Science Teachers”, C. Ivanov, R. McDow, M. Day & L. Hodge (Principal Investigators), Nashville State Technical Institute (funded for $20,000, November 1997)

**Refereed Presentations**

**International**

Inabnitt, C.\*, Duffin, L.C. & Day, M.M. (January 2016). *“Testing the Effects of Professional Development on Elementary Pre-Service Teacher’s Beliefs about Mathematics Inquiry Instruction”.* Paper presented at 2016 Clute Institute International Education Conference, Orlando, FL*.\*Best Paper in Session Award*

Johnson, C.B.\*, Day, M.M. & Pesterfield, L.L. (December 2015). *From STEM to STEAM: Thermodynamics and the art of Japanese Swordsmithing.* Poster session presented at the 2015 PacifiChem International Chemical Congress of Pacific Basin Societies, Honolulu, HI.

Day, M.M., & Duffin, L.C. (July 2015). *Preparing teachers for the STEM disciplines.* Presented

at the 2015 International Conference on Learning, Madrid, Spain.

Volz, K.\*, Day, M. and Duffin, L. (June 2014). Creating “Fireworks” in Your Mathematics and

Chemistry Classroom through Problem Based Lessons, Hawaii University International Conference on Science Technology Engineering and Mathematics, Honolulu, HI.

Cooper, P.\*, Day, M. and Duffin, L. (June 2014). Inquiry-Based 5E Lesson in a High School

Geometry Classroom: The Rediscovery and Applications of the Golden Ratio, Hawaii University International Conference on Science Technology Engineering and Mathematics, Honolulu, HI.

Johnson, C.B.\*, Duffin, L. and Day, M. (June 2014). Using Tiered Testing in Conjunction with

Thoughtful Reflection to Bolster Students’ Thinking in Chemistry, Hawaii University International Conference on Science Technology Engineering and Mathematics, Honolulu, HI.

Day, M., and Cowley, K. (June 2013). GSKyTeach at Western Kentucky University, Preparing

STEM teachers for service in high-needs high schools, Educational Measurement and Evaluation Strand, Hawaii University International Conference on Mathematics, Engineering and Technology, Honolulu, HI.

Robertson, M.\* and Day, M. (June 2013). 5E Instructional Model Workshop: The Underpinning

of Extraordinary Lessons, Curriculum Research and Development Strand, Hawaii University International Conference on Mathematics, Engineering and Technology, Honolulu, HI.

Froedge, L.\* and Day, M. (June 2013). GradeCam: Making Grading as Easy as Snapping a

Picture, Educational Technology Strand, Hawaii University International Conference on Mathematics, Engineering and Technology, Honolulu, HI.

**National**

Day, M.M., Duffin, L.C. & Cribbs, J. (October 2016). *Inquiry, Projects, and Makerspaces: Bringing Math and Science to Life.* 2016 School Science and Mathematics Association Annual Convention, Phoenix, AZ.

Price, J.\*, Pennington, Z.\*, & Day, M.M. (May 2016). *Catapulting Compassion: A Project-Based Exploration of Quadratic Functions.* Poster presented at the UTeach Institute-NMSI Conference, Austin, TX.

Inabnitt, C.P.\*, Duffin, L.C., Day, M.M., & Gerberry, C.V. (2016, April). *Testing the Effects of Professional Development on Elementary Pre-Service Teacher’s Beliefs about Mathematics Inquiry Instruction*. 2016 Annual Meeting for the American Educational Research Association, Washington, D.C.

Donahue, T., Day, M. M. & Duffin, L.C. (2016, April). *GSKyTeach: Preparing STEM Teachers for Today’s Students.* 2016 Annual Meeting for the American Educational Research Association, Washington, D.C.

Donahue, T., Day, M. M. & Duffin, L.C. (2015, November). *GSKyTeach: Evaluating a Teacher Preparation Program through Teacher Quality and Retention.* 2015 American Evaluation Association National Conference, Pre-K-12 Educational Evaluation, Chicago, IL.

Starling, M.P.\*, Duffin, L.C., & Day, M.M. (April 2015). *Answering the call for STEM recruitment: Connecting classroom chemistry to the real-world*. 2015 Annual Meeting for the American Educational Research Association, Chicago, IL.

Keith, H.B.\*, Duffin, L.C., & Day, M.M. (May 2015). *Whatever you Like: The effects of 5E inquiry versus direct instruction on teacher rapport.* Poster presented at the UTeach Institute-NMSI Conference, Austin, TX. *\*Winner for Outstanding Research Project*

Inabnitt, C.P.\*, Duffin, L.C., & Day, M.M. (May 2015). *I’m picking up good permutations; We’re learning some great combinations.* Poster presented at the UTeach Institute-NMSI Conference, Austin, TX.

Hughes, K., Granger, E., & Day, M.M. (May 2015). *The UTeach STEM Educators Association*

*(USEA): A Professional Association for UTeach.* Presented at the UTeach Institute-NMSI

Conference, Austin, TX.

Day, M.M., Ati, C.\*, Johnson, C.\*(March 2015). *Fixing the Leaky STEM Pipeline Through*

*Innovative Math and Science Teacher Preparation.* Presented at the Annual Conference for

Teaching Academic Survival Skills, Ft. Lauderdale, FL.

Graves, M.\*, Day, M. and Pesterfield, L. (May 2014). Experimental Design 101: Will it Pass the

Test?, poster session at UTeach National Conference, Austin, TX.

Day, M., Nadelson, L., Villarreal, J., Rothrock, K., Turner, C. and Pesterfield, L. (May 2014).

Expanding UTeach to Community Colleges and Satellite Campuses, Roundtable Discussion at the Uteach National Conference, Austin, TX.

Day, M., Nadelson, L., Villarreal, J., Rothrock, K., Turner, C. and Pesterfield, L. (May 2014).

UTeach and Community College Partnerships Roundtable Discussion at the Uteach National Conference, Austin, TX.

O’Donnell, J., Granger, E. and Day, M. (May 2014). The UTeach STEM Educators Association

(USEA): A New Professional Association for UTeach, UTeach National Conference, Austin, TX.

Clements, E.\*, Day, M. and Pesterfield, L. (April 2014). Assessments, Research, and Scavenger Hunts, Oh My! Using QR Codes in the Science Classroom. National Science Teachers Association National Convention, Boston, MA.

Starling, M.\*, Harris, N.\*, Day, M. and Pesterfield, L. (March 2014). Pressure and Volume: A 5E Inquiry Lesson. CHED Division Poster presentation at the American Chemical Society National Conference, Dallas,TX.

Johnson,C.\*, Jernigan,C.\*, Day, M. and Pesterfield, L. (March 2014). Crooked Cook Caper. CHED Division and Sci-Mix Poster presentation at the American Chemical Society

National Conference, Dallas, TX.

Jernigan,C.\*, Johnson, C.\*, Day, M. and Pesterfield, L. (March 2014). Use of examples/non- examples as exploration technique for highly procedural topics. CHED Division Poster presentation at the American Chemical Society National Conference, Dallas, TX.   
Duffin,L., Day, M. and Cook, A.\* (April 2014). Building College Student Motivation for General Chemistry: A Tool for Fixing the Leaky STEM Pipeline. Roundtable discussion, Division C: Learning and Instruction/Section 1d. Science. American Educational Research Association National Conference, Philadelphia, PA.

Lett, K.\*and Day, M. (September 2013). Inquiry Based Science: The 5E Model of Instruction.

CHED Division and Sci-Mix Poster presentation at the American Chemical Society National Conference, Indianapolis, IN.

O’dell, T.\*and Day, M. (September 2013). Use of best pedagogical practices to teach chemical

reaction types to high school students. CHED Division and Sci-Mix Poster presentation at the American Chemical Society National Conference, Indianapolis, IN.

Moore, M.\*and Day, M. (May 2013). Challenging Students to Rise Above the Content: A 5E

Lesson on Cellular Respiration and Fermentation, poster session at UTeach National Conference, Austin, TX.

Fisher, S.\*, Day, M. and Pesterfield, L. (May 2013). Chili Today or Hot Tamale: Engineering a

Solar Oven, poster session at UTeach National Conference, Austin, TX.

Day, M., Cardenas, S. and Westbrook, B. (May 2013). Expanding UTeach to Community

Colleges and Satellite Campuses, Roundtable discussion at the UTeach National

Conference, Austin, TX.

Day, M., Wigglesworth, M., Chaney, K., Addison, S., Marshall, G., and Nolan, D. (May 2013).

University Replication Panel: Lessons Learned, panel discussion at the UTeach National

Conference, Austin, TX.

Day, M., Stobaugh, R. and Tassell, J. (April 2013). Developing Science Assessments that

Support Inquiry, National Science Teachers Association National Convention, San Antonio, TX.

Clements, T.\*, Marsh, J.\*and Day, M. (April 2013). MyPad, YourPad, WhyPad?, Ipad!, National

Science Teachers Association National Convention, San Antonio, TX.

Cowley, K. and Day, M. (October 2012). Building Relationships, Sharing Responsibilities, and

Making It Relevant: Implementing and Evaluating an Alternative Teacher Certification

Program for STEM Disciplines in Kentucky’s High-Need High Schools, American

Evaluation Association Annual Meeting, Minneapolis, MN.

Munoz, M., Day, M., and Cowley, K. (October 2012). GSKyTeach: An Innovative Residency

Program to Prepare Math and Science Teachers for High-Need High Schools in Jefferson

County, Kentucky”. Presentation at the Consortium for Research on Educational

Accountability and Teacher Evaluation National Evaluation Institute Conference,

Washington, DC.

Overstreet, S.\*and Day, M. (August 2012). A 5E inquiry based lesson on limiting reagents for

the general chemistry classroom. Poster presentation at the American Chemical Society

National Conference, Philadelphia, PA.

Cook, A.\*and Day, M. (August 2012). An inquiry based 5E lesson on VSEPR theory. Poster

presentation at the American Chemical Society National Conference, Philadelphia, PA.

Day, M., Pesterfield, L. & Kasznel, D. (June 2012). Recruitment Strategies for the

Teacher Quality Partnership at Western Kentucky University’s GSKyTeach

Program, Poster presentation at the United States Department of Education’s

Teacher Quality Partnership Project Director’s Meeting, Washington, DC.

McShane, J., Day, M., Case, S., and Bailey, B. (May 2012). Expanding UTeach to Community

Colleges and Satellite Campuses, Roundtable discussion at the UTeach National

Conference, Austin, TX.

Day, M., Erbach, D., Rudloff, M., Patel, A., Neiman, N., & Burba, S. (2012). SKyTeach: The

5E’s of Replication, Presentation at the UTeach National Conference, Austin, TX

Burba, S.\*& Day, M. (2012). Perspectives on Royal Genes, Poster presentation at the UTeach

National Conference, Austin, TX.

Day, M., Slonim, D., Jernigan, C.\*, and Ignash, M.**\***(March 2012). Physical Science

Demonstration Models, Short Course presented at the National Science Teachers

Association National Convention, Indianapolis, IN.

Day, M., and Stinson, J.\*(March 2012). Whodunit? A problem based unit in forensic science, Model lesson presented at the National Science Teachers Association National Convention, Indianapolis, IN.

Patel, A.\*, Neiman, N.\*, Pesterfield, L. and Day, M.(March 2012). Semipermeable membranes, diffusion and osmosis inquiry: Effective modeling in a high school classroom, poster session presented at the American Chemical Society National Convention, San Diego, CA.

Judge, S., Goodwin, L., Day, M., Robinson, G., and Rodriguez, G. (February 2012). Lessons

Learned About Teacher Residency Models: Views From Five Teacher Quality Partnership Grantees, American Association of Colleges for Teacher Education National

Conference, Chicago, IL.

Day, M., Rudloff, M. and Burba, S.\*(May 2011).Project-based Learning: Preparing Students to Solve Real World Problems in STEM Disciplines, UTeach Conference, Austin, TX.

Stobaugh, B.., Tassell, J., and Day, M., (March 2011). Boosting Cognitive Complexity in Classroom Assessment. Ticketed Session at the Association for Supervision and Curriculum Development National Convention, San Francisco, CA.

Day, M. and Suzuki, T. (March 2011). Developing Critical Thinkers Through Inquiry Explorations and Quality Children’s Literature, Presentation at the National Science Teachers Association National Convention, San Francisco, CA.

Day, M. and Smith, L.A.\*(March 2011). Project Based Learning: Preparing Students to Solve Real World Problems in the STEM Disciplines, Presentation at the National Science Teachers Association National Convention, San Francisco, CA.

Day, M. and Reedy, V. (March 2010). Research Experiences for Teachers at Vanderbilt University, National Science Teachers Association National Convention, Philadelphia, PA.

Day, M. and McBroom, S. (March 2003). Teaching in the “ER” (Emergency Room**),** Short Course, National Science Teachers Association National Convention, Philadelphia, PA.

Day, M., Ivanov, C. and Little, L. (March 1997). Teaching Science Across the Curriculum: Linking the New with the Known, National Science Teachers Association National Convention, New Orleans, LA.

Day, M. and Ivanov, C. (March 1997) Games and Projects in Chemistry, Physics and Physical Science, Short Course, National Science Teachers Association National Convention, New Orleans, LA.

Day, M. and Ivanov, C. (March 1996). Block Scheduling: Strategies for Success!, National Science Teachers Association National Convention, St. Louis, MO.

**Regional**

Day, M., Pesterfield, L., and Froedge, L.\*(October 2013). SKyTeach at Western Kentucky University: Teacher Preparation for STEM Disciplines, Presentation at the National Council of Mathematics Teachers Regional Convention, Las Vegas, NV.

Day, M., and Tyler, R.(October 2012). Want to see stars? Build your own Telescope!, Short Course presented at the National Science Teachers Association Regional Convention,

Louisville, KY.

Day, M., and Tyler, R.(October 2012). The 5E Learning Cycle, Presentation at the National

Science Teachers Association Regional Convention, Louisville, KY.

Day, M., and Dick, K.**\***(October 2012). What affects the strength of a solenoid? Presentation at

the National Science Teachers Association Regional Convention, Louisville, KY.

Day, M., Slonim, D., and Ignash, M.**\***(December 2010). Physical Science Demonstration Models, Short Course presented at the National Science Teachers Association Regional Convention, Nashville, TN.

Day, M., Stobaugh, B., and Tassell, J. (December 2010). Boosting Cognitive Complexity in Science Assessment. Presentation at the National Science Teachers Association Regional Convention, Nashville, TN.

Day, M. and Metzgar, V.(December 2010). SKyTeach at Western Kentucky University. Presentation at the National Science Teachers Association Regional Convention, Nashville, TN.

Day, M. (November 2001). Genetics: Spiraling Into the Future,National Science Teachers Association Regional Convention, Memphis, TN.

Day, M. and Ivanov, C. (October 1998) Games and Projects in Chemistry, Physics and Physical Science, Short Course, National Science Teachers Association Regional Convention, Birmingham, AL.

Day, M. and Ivanov, C. (November 1997). Using Newton’s Apple in the Science Classroom, National Science Teachers Association Regional Convention, Nashville, TN.

**State**

Day, M. and Suzuki, T. (October 2012). Reading! Set! Science! An Integrated and Hands-on

Approach to Promoting Literacy in the Science Classroom. Kentucky Reading

Association, Lexington, KY.

Day, M. & Rudloff, M. (June 2012). Differentiating Instruction in Science: Making

Differentiation Effective with Real-World Strategies. Kentucky Association

for Gifted Education Summer Workshop, Bowling Green, KY.

Suzuki, T. and Day, M. (October 2010). Using three level comprehension guides to boost literacy in the science classroom. Kentucky Reading Association, Lexington, KY.

Day, M. and Slonim, D. (April 2009). Engaging Learners In Inquiry-Modeling and Teaching the Process of Science, Utah Science Teachers Association Convention, South Jordan, UT.

Day, M. (November 2007). Tennessee Wildfire Prevention, Short Course, Tennessee Science Teachers Association Convention, Nashville, TN.

Day, M. (November 2006). Tennessee Wildfire Prevention, Short Course, Tennessee Science Teachers Association Convention, Nashville, TN.

Day, M. (November 2000). Interactive Technology in the Science Classroom,Tennessee Science Teachers Association Convention, Nashville, TN, Fall 2000

Day, M. (June 1999). Content Area Reading in the Science Classroom,Metropolitan Nashville Schools Science Institute, Nashville, TN.

Day, M. and McBroom, S. (March 1999). Teaching in the “ER” (Emergency Room**),** Short Course, Metropolitan Nashville Schools Science Institute, Nashville, TN.

Day, M. and Ivanov, C. (November 1998). Operation Chemistry Workshop, Tennessee Science Teachers Association Convention, Nashville, TN.

Day, M. and Ivanov, C. (December 1997) Games and Projects in Chemistry, Physics and Physical Science, Short Course, Tennessee Science Teachers Association Convention, Nashville, TN.

Day, M. and Ivanov, C. (June 1997). Operation Chemistry Workshop, Metropolitan Nashville Schools Science Institute, Nashville, TN.

Ivanov, C. and Day, M. (August 1995). Enhancing Science Achievement Through the Use of hands-on Activities, Tennessee Science Teachers Association Convention, Nashville, TN. Ivanov, C. and Day, M. (June 1995). Small Scale Chemistry**,** Metropolitan Nashville Schools Science Institute, Nashville, TN.

**University**

Inabnitt, C.P.\*, Duffin, L.C., & Day, M.M. (March 2015). *How does a professional development effect teachers’ beliefs on inquiry instruction in mathematics?* Presented at the Western Kentucky University Student Research Conference, Bowling Green, KY. *\*Session Winner*

Stinnett, K.\*, Wulff, A. & Day, M. (March 2014). Modeling Le Chatelier’s Principle using a 5E Inquiry-based lesson, Poster Session at Western Kentucky University Student Research Conference, Bowling Green, KY.

**Invited Lectures**

2015 Kentucky 4-H Volunteer Forum, Workshop: Horse Judging and Oral Reasons for

Beginners & Horse Judging and Oral Reasons for Intermediate/Advanced Judges,

University of Kentucky, Lexington, KY, February 12, 2016

Robotics Engineering Design Challenge, Presentation at Girls and Science Day, Western

Kentucky University, Bowling Green, KY, October 17, 2015.

Kentucky Teacher Standards and Professional Growth and Effectiveness Standards, North China

Power and Electric University, Beijing, China, August 1-August 8, 2015

Developing Proficiency with Kentucky Teacher Standards, Beijing Language and Culture

University, Beijing, China, May 23-May 31, 2015

Mechanical Engineering Design Challenge, Presentation at Girls and Science Day, Western

Kentucky University, Bowling Green, KY, September 6, 2014.

Developing Proficiency with Kentucky Teacher Standards, Webinar Presented from Western

Kentucky University to Hanban/Confucius Institute, Beijing, China, May 7-8, 2014, <http://english.hanban.org/article/2014-05/20/content_537121.htm>

Developing Proficiency with Kentucky Teacher Standards, Beijing Language and Culture

University, Beijing, China, April 29-May 3, 2013

Teaching as a Career, Operation Preparation Day, Allen County Middle and High Schools,

Scottsville, KY, March 8, 2013

An Overview of STEM Teacher Preparation Programs at Western Kentucky University, Prichard

Committee Quarterly Meeting, Frankfort, KY, September 11, 2012

An Overview of the GSKyTeach Program at Western Kentucky University, United States

Department of Education Teacher Quality Partnership Webinar, April 19, 2012.

Teaching inquiry and the nature of science with best practice instruction in the 5E model,

Workshop conducted for 75 Logan County Teachers, Russellville, KY, February 6, 2012.

Science Palooza Gas Laws Demonstration Models,Green River Regional Education Cooperative Workshop for Secondary Science Teachers, Bowling Green, KY, July 2011.

UTeach Course Roundtable: Project-Based Instruction,UTeach 2011 Conference, Austin, TX, May 2011.

Science Circle for Middle School Science Teachers Guest Presenter on Electrical Conductivity of Solutions; Demonstrations for the Science Classroom, SKyTeach at Western Kentucky University,February 2010

Science Circle for Middle School Science Teachers Guest Presenter on Gas Laws Demonstrations for the Secondary Science Classroom, SKyTeach at Western Kentucky University,November 2009

Ohio State University College of Veterinary Medicine Sound Horse Conference,Panelist, “Affecting Social and Cultural Change through Organizational Change”, Columbus, Ohio, April 2008

Middle Tennessee State University Health Educator’s Workshop,Invited Speaker, “Researching Health Topics Through Interactive Technology, June 2001

Project Dean,Gateway Biology Institute Phases I & II, Vanderbilt University and Metropolitan Nashville Schools, 2 weeks, June 2001

Vanderbilt University Medical Center Science Teacher Leadership Institute,Invited Lecturer, “The Use of Interactive Technology in the Science Classroom, June 2001

G.A.S. Girls and Science: A Science Camp for Middle School Aged Girls, Career Panelist, Vanderbilt University Medical Center, June 2000, June 2001

Horsemanship Safety, Lecture at Austin Peay State University, Clarksville, TN, November 1999

G.A.S. Girls and Science: A Science Camp for Middle School Aged Girls, Served as a Teacher/Counselor at Vanderbilt University, Nashville, TN, June 1999

Guaranteed Success!,Vanderbilt University/Metropolitan Nashville Schools Collaborative Student Achievement Project, Teacher/Coordinator, 1998-1999 Academic Year

Parenting Education Series: Childhood Nutrition and Childhood Eating Disorders, Austin Peay State University, Office of Continuing and Extended Education, Clarksville, TN October 1996

**Awards**

* 2015: Western Kentucky University Faculty Student Advisement Award, University Award Winner
* 2015: Western Kentucky University College of Education and Behavioral Sciences Faculty Student Advisement Award
* 2013: Western Kentucky University Office of Sponsored Programs, “Junior Investigator FY13” Award Recipient
* 2013: Western Kentucky University College of Education and Behavioral Sciences Faculty Public Service Award
* 2012: Western Kentucky University Office of Sponsored Programs, “Largest Dollar Amount in a Single Award FY12” Award Recipient
* 2012: Western Kentucky University Office of Sponsored Programs, “Junior Investigator FY12” Award Recipient
* 2012: Confucius Institute at Western Kentucky University, Sponsorship Award, “Working with students from Asian cultures, a teacher’s guide to cultural competence.”
* 2011: Western Kentucky University Office of Sponsored Programs “Million Dollar Club” Award Recipient
* 2011: Western Kentucky University Office of Sponsored Programs “First Time Grant” Award Recipient
* 2011: Troxel “Share Your Adventure” Photography Contest, 3rd prize winner
* 2004: FOSH Investigative Journalism Award, 3rd place winner
* 2004: American Chemical Society, Nashville Chapter Teacher of the Year
* 2002: Fulbright Memorial Fund Scholar (Tokyo and Shimabara, Japan), Travel date Nov 15th-Dec 5th, 2003
* 2001: Teacher of the Year Award 2001, Whites Creek Comprehensive High School, Nashville, Tennessee
* 1997, 1996, 1995: Science Action Award, Metropolitan Nashville Public Schools, Nashville, Tennessee

**Professional Organizations**

American Society of Engineering Education, 2015-present

UTeach STEM Education Association, 2014-present

American Educational Research Association, 2013-present

American Association of Colleges for Teacher Education, 2012-present

American Evaluation Association, 2012-present

Consortium for Research, Evaluation and Accountability in Teacher Education, 2012-present

American Chemical Society, 2012-present

Kentucky Reading Association, 2011-present

National Science Teachers Association, 1996-present

Association for Supervision and Curriculum Development, 2010-present

Phi Kappa Phi Honor Society, Tennessee State University Chapter, Inducted 1997

Kappa Delta Pi Honor Society, Austin Peay State University Chapter, Inducted 1993

Delta Tau Alpha Honor Society, Austin Peay State University Chapter, Inducted 1988

**Textbook Editing**

*General, Organic and Biological Chemistry, An Integrated Approach*, Wiley and Sons, Chapters 1,2,3, September-December 2010.

Holt Biology 2008, Holt, Rinehart, Winston, Chapters 8, 9, 19, 23, August 2005- March 2006

9th and 10th Grade Integrated Chemistry and Physics, Holt, Rinehart and Winston, Chapters 1,9,10, January-April 1999

Newton’s Apple Teacher’s Guide, February 1999

**Service Activities**

**Directed Student Learning**

**Doctoral Committees**

Brian Womack, Dissertation Chairperson, Western Kentucky University, (August 2015-present)

Kenny Lee, Dissertation Co-Chairperson, Western Kentucky University, (August 2014-present)

Lee Ann Smith, Ed.D. Pre-Service Teachers: A Study of Self-Theories of Intelligence and Attitudes about Web 2.0,Dissertation Chairperson, Western Kentucky University, (May 2010-December 2014).

Wesley Waddle, Ed.D. An Analysis of Factors Impacting K-12 Technology-Infused

Lesson Design, Dissertation Committee Member, Western Kentucky University, (May

2010-May 2012).

Eugene Patsalides, Dissertation Committee Member, Western Kentucky University, (May 2011-present).

Kelly S. Davis, Ed.D. Program Evaluation of Universal Positive Behavioral Interventions and Supports in Kentucky, Doctoral Dissertation Committee Member, Western Kentucky University, (May 2010-May 2011).

**Paula V Wilkes Pendergrass, Ed.D.** (2004).The short-term effects of Reading Recovery on children's reading development: Process and product,Doctoral Dissertation Editor, Tennessee State University.

**Graduate Student Advisement and Field Supervision**

Kerstin Edberg, MAT Candidate, August 2016-present

Fred Logan Johnson, MAT Candidate, August 2016-present

Ariel Wren, MAT Candidate, August 2016-present

Jessica Newton, MAT Candidate, January 2016-present

Shelley Spalding, MAT Candidate, January 2016-present

Ben Martin, MAT Candidate, June 2015-present

Aaron Howard, MAT Candidate, June 2015-present

Cassandra Pendergrass, MAT Candidate, June 2015-present

Nathan Dick, MAT Candidate, June 2015-present

Robert Rice, MAT Candidate, June 2015-present

Cody Rich, MAT Candidate, August 2014-May 2016

MariBeth Stanley, MAT Candidate, August 2014- May 2016

Jessica Branco-Greer, MAT Candidate, August 2014- May 2016

Monica Bean, MAT Candidate, August 2014-present

Natalie Crimmins, MAT Candidate, August 2014-August 2015

Mitzy Cook, MAT Candidate, August 2014- May 2016

Russell Webb, MAT Candidate, August 2014- May 2016

Wu Xuan, MTCSOL Candidate, June 2014- May 2016

Chuo Yuting, MTCSOL Candidate, June 2014- May 2016

Li Liming, MTCSOL Candidate, June 2014- May 2016

Huanhuan Li, MTCSOL Candidate, June 2014- May 2016

Jing Xu, MTCSOL Candidate, June 2014- May 2016

Di Zhu, MTCSOL Candidate, June 2014- May 2016

Caleb Johnson, GSKyTeach MAT Candidate, June 2013-August 2014

Dustin Ursery, GSKyTeach MAT Candidate, June 2013-August 2014

Nicholas Jones, GSKyTeach MAT Candidate, June 2013-August 2014

Michael Starling, GSKyTeach MAT Candidate, June 2013-August 2014

Philip Cooper, GSKyTeach MAT Candidate, June 2013-August 2014

Kathryn Volz, GSKyTeach Graduate Teaching Assistant, June 2012-July 2012

Amar Patel, GSKyTeach Graduate Teaching Assistant, June 2012-July 2012

Elizabeth Clements, GSKyTeach MAE Candidate, June 2012- August 2013

Lori Froedge, GSKyTeach MAE Candidate, June 2012- August 2013

Neelima Gajavilli, GSKyTeach MAE Candidate, June 2012- December 2012

Tabitha Kinard, GSKyTeach MAE Candidate, June 2012- August 2013

Kacee Lett, GSKyTeach MAE Candidate, June 2012- August 2013

Tyler O’Dell, GSKyTeach MAE Candidate, June 2012- August 2013

Mollie Robertson, GSKyTeach MAE Candidate, June 2012- August 2013

Christian Tate, GSKyTeach MAE Candidate, June 2012- October 2012

Harsh Upadhyay, GSKyTeach MAE Candidate, June 2012- August 2013

Elizabeth Keithly, ARTCMAE Candidate, June 2012-August 2014

Adrian Armendariz, GSKyTeach MAE Candidate, June 2011- August 2012

Brandon Bressman, GSKyTeach MAE Candidate, June 2011- August 2012

John A. Casebolt, GSKyTeach MAE Candidate, June 2011- August 2012

Taylor Clements, GSKyTeach MAE Candidate, June 2011- August 2012

Kevin Dick, GSKyTeach MAE Candidate, June 2011- August 2012

Matthew Heimerdinger, GSKyTeach MAE Candidate, June 2011- August 2012

Kathleen Johnson, GSKyTeach MAE Candidate, June 2011- August 2012

Joshua Marsh, GSKyTeach MAE Candidate, June 2011- August 2012

Kathryn Volz, GSKyTeach MAE Candidate, June 2011-August 2012

Elliott Blanton, ARTCMAE Candidate, June 2011-August 2013

Dan Dillingham, ARTCMAE Candidate, June 2011-May 2013

Amanda Shirley, ARTCMAE Candidate, June 2011-August 2013

Joshua Jones, ARTCMAE Candidate, June 2010-August 2011

Joey Stinson, MAEd., ARTCMAE program, June 2010-August 2011

Chadd Carroll, MAEd., ARTCMAE program, June 2010-August 2012

Kendall Cook, MAEd., ARTCMAE program, June 2010-August 2011

Christina Florence, MAEd., ARTCMAE program, June 2010-December 2012

Michael Brekke, MAEd., GSKyTeach MAE, June 2010-August 2011

Jordan Couzo, MAEd., GSKyTeach MAE, June 2010-August 2011

Michael Hale, MAEd., GSKyTeach MAE, June 2010-August 2011

James Hannon, MAEd., GSKyTeach MAE, June 2010-August 2011

Nathan Harris, MAEd., GSKyTeach MAE, June 2010-August 2011

Thomas Heath, MAEd., GSKyTeach MAE, June 2010-August 2011

Frank Houston, MAEd., GSKyTeach MAE, June 2010-August 2011

Matthew Ignash, MAEd., GSKyTeach MAE, June 2010-August 2011

Courtney Jernigan, MAEd., GSKyTeach MAE, June 2010-August 2011

Josh Raper, MAEd., GSKyTeach MAE, June 2010-August 2011

Josiah Roberts, MAEd., GSKyTeach MAE, June 2010-August 2011

Leah Stanley, MAEd., GSKyTeach MAE, June 2010-August 2011

Ryan Stephenson, MAEd., GSKyTeach MAE, June 2010-August 2011

John Wallen, MAEd., GSKyTeach MAE, June 2010-August 2011

Matthew Ignash, Graduate Teaching Assistant, June 2011-July 2011

**Undergraduate Field Supervision**

Amar Patel, Undergraduate Teaching Assistant, August 2011-December 2011

Nick Neiman, Undergraduate Teaching Assistant, August 2011-December 2011

Tammi Jones, Undergraduate Teaching Assistant, June-July 2011

Nikki Joiner,student teacher at Middle TN State University, 7 weeks, Spring 2001

Scott Christian,student teacher at Peabody College, Vanderbilt University, 10 weeks, Spring 2000

June Collins,student teacher at Peabody College, Vanderbilt University, 10 weeks, Spring 1999

**Kentucky Teacher Internship Program University Supervision**

Cody Rich, KTIP Intern at Franklin-Simpson High School (Biology), Franklin Simpson County Schools, August 2016-May 2017 (Tim Schlosser, Principal)

Jessica Greer, KTIP Intern at Caverna High School (Spanish), Caverna Schools, August 2016-May 2017 (Chase Goff, Principal)

Mitzy Cook, KTIP Intern at Monroe County High School (Business Education), Monroe County Schools, August 2015-May 2016 (Jerri Rowland, Principal)

Shelton Fisher, KTIP Intern at Moss Middle School (Science), Warren County Schools, August 2014-May 2015 (Jerry Nole, Principal)

Josh Treon, KTIP Intern at South Warren High School (Physics), Warren County Schools, August 2014-May 2015 (Jenny Hester, Principal)

Lisa Henning, KTIP Intern at Frederick Fraize High School (Earth Science), Cloverport Independent Schools, August 2013-May 2014 (Roger Haynes, Principal)

Stephen Allen, KTIP Intern at James E. Bazzell Middle School (Mathematics), Allen County Schools, August 2013-May 2014 (Melissa Towery, Principal)

Kathryn Crawford, KTIP Intern at Russellville High School (Biology), August 2012-May 2013 (Kim McDaniel, Principal)

**National Committees and Advisory Boards**

UTeach STEM Educators Association (USEA) **Awards Committee**, *Chairperson,* 2016-2017

UTeach STEM Educators Association (USEA), *Immediate Past President,* 2016-2017

UTeach STEM Educators Association (USEA), *President,* 2015-2016

Kentucky Girls STEM Collaborative, *Member,* August 2015-present

UTeach STEM Educators Association (USEA), *Vice-President/President Elect,* 2014-2015

UTeach STEM Educators Association (USEA) **Leadership Development Committee**, *Chairperson,* 2014-2015

UTeach Professional Association Advisory Board, *Committee Member*, February 2013-December 2013

*Advisory Board Member*, **National Science Teachers Association Urban Science Education Advisory Board**, Committee Appointment,Term Duration 2010-2013, [www.nsta.org](http://www.nsta.org)

*Advisory Board Member*, **Center for Compact and Efficient Fluid Power: A National Science Foundation Engineering Research Center** [**http://www.ccefp.org/index.php**](http://www.ccefp.org/index.php)**, Education Advisory Board**, January 2007-January 2010

*Chairperson-Guides Committee*, National Science Teachers Association, Southern Area

Convention Planning, Nashville, TN, July-December 1998

**University Committees and Advisory Boards**

*Committee Member,* **University Advising Award,** Western Kentucky University, March 2016-April 2016

*Committee Co-Chairperson,* **Faculty Mentoring Award,** Western Kentucky University, November 2015-present

*Committee Member,* **President’s Committee on the Confucius Institute,** Western Kentucky University, May 2015-Present

*Committee Member*, Western Kentucky University, **SKyTeach** **Scholarship Committee**, May 2015

*Committee Member,* **University Budget and Finance Committee,** Western Kentucky University, August 2015-May 2016

*Committee Member,* **Provost’s Committee on Faculty Recognition,** Western Kentucky University, May 2014-May 2016

*Committee Member,* **University Curriculum Committee,** Western Kentucky University, August 2014-August 2015

*University Senator,* **School of Teacher Education Senate Representative**, Western Kentucky University, August 2014-May 2016

*Committee Member*, Western Kentucky University, **SKyTeach** **Scholarship Committee**, May 2014

*Search Chairperson*, Western Kentucky University, **Clinical Track Assistant Professor, Confucius Institute/WKU School of Teacher Education Master of Arts in Teaching Program**, February 2014-August 2015.

*Committee Member*, Western Kentucky University, **Clinical Track Assistant Professor, ELED Generalist, Elizabethtown Campus, WKU School of Teacher Education**, April 2014-July 2014

*Committee Member,* **WKU Glasgow Strategic Planning Committee**, November 2013-May 2014

*Committee Co-Chairperson,* **WKU School of Teacher Education Master of Arts in Teaching Task Force**, November 2013-present

*Search Committee Member*, Western Kentucky University, **Tenure Track Assistant Professor, Elementary Generalist**, October 2013-December 2013

*Search Chairperson*, Western Kentucky University, **SKyTeach Master Teacher** (5 positions), November 2011-February 2013

*Search Chairperson*, Western Kentucky University, **Tenure Track Assistant Professor, Science Education**, August 2011-February 2012

*Search Committee Member*, Western Kentucky University, **Tenure Track Assistant Professor, Mathematics Education**, August 2011-January 2012

*Committee Member* **Robert Noyce Scholarship** at Western Kentucky University, January 2011-present

*Search Chairperson*, Western Kentucky University, **Visiting Assistant Professor #2, Science Education Emphasis**, January 2011-May 2011

*Search Chairperson*, Western Kentucky University, **Visiting Assistant Professor, Science Education Emphasis**, December 2010-May 2010

*Search Committee Member*, Western Kentucky University, **Assistant Professor, Mathematics Education Emphasis**, December 2010-May 2010

*Committee Member*, Western Kentucky University, **SKyTeach Steering Committee**, August 2010-December 2012

*Search Chairperson,* Western Kentucky University, **Assistant Professor, Social Studies Emphasis**, November 2010-February 2011

*Committee Member*, Western Kentucky University, College of Education and Behavioral Sciences **International Committee**, August 2010-present

*Committee Member*, Western Kentucky University, School of Teacher Education **Scholarship Committee**, May 2010

**Consulting**

October 2016: *Grant proposal content reviewer*, **United States Department of Educatio**n, Washington, D.C. 20202-5335. Project manager: Justis Tuia. Office of Innovation and Improvement, **Promise Neighborhoods Program** CFDA #84.215N

September 8, 2016, **Green River Regional Education Cooperative Science Plus** *Content Stretch Trainer (Engineering)*, Bowling Green, KY

August 2016: *Grant proposal content reviewer*, **United States Department of Educatio**n, Washington, D.C. 20202-5335. Project manager: Richard Wilson. Office of Innovation and Improvement, **Teacher Quality Partnership** CFDA #84.336S

July 2016: *Grant proposal content reviewer*, **United States Department of Educatio**n, Washington, D.C. 20202-5335. Project manager: Jennifer Todd. Office of Innovation and Improvement, **Magnet Schools Assistance Program** CFDA #84.165A

June 13-17, 2016, **Green River Regional Education Cooperative Science Plus** *Content Stretch Trainer (Engineering)*, Bowling Green, KY

July 2015: *Grant content reviewer*, **United States Department of Education**, Washington, D.C. 20202-5335. Project manager: Charity Helton. **Grant Assistance in Areas of National Need (GAANN Program-Chemistry)** Panel 7, Office of Postsecondary Education

June 8-12, 2015, **Green River Regional Education Cooperative Science Plus** *Content Stretch Trainer (Engineering)*, Bowling Green, KY

September 11, 2014, **Green River Regional Education Cooperative Science Plus** *Content Stretch Trainer (NGSS and 5E Pedagogy)*, Bowling Green, KY

September 2014-present, **Green River Regional Education Cooperative Science Plus** *Project Assessment Developer (4th grade science)*, Bowling Green, KY

July 2014: *Grant proposal reviewer*, **UTeach Institute**, Austin, TX 78712. Project Manager: Celeste Padilla. UTeach Replication Program Proposals

June 9-13, 2014, **Green River Regional Education Cooperative Science Plus** *Content Stretch Trainer (Engineering)*, Bowling Green, KY

May 2014: *Grant pre-proposal content reviewer*, **United States Department of Education**, Washington, D.C. 20202-5335. Project manager: Yianni Alepohoritis. **Investing in Innovation (i3) Development Grants** CFDA #84.411C, STEM Pathways Applications

March 24, 2014: *Course Evaluator*, Apprentice Teaching, **UTeach Institute**, Austin, TX 78712. Project Manager: Aaron Smith. Middle Tennessee State University Site Visit for Course Evaluation.

November 5-6, 2013: *Program Reviewer*, **UTeach Institute**, Austin, TX 78712. Project Manager: Aaron Smith. Middle Tennessee State University Site Visit.

October 2013: *Grant proposal reviewer*, **UTeach Institute**, Austin, TX 78712. Project Manager: Celeste Padilla. UTeach Replication Program Proposals

September 2013: *Grant proposal content reviewer*, **United States Department of Education**, Washington, D.C. 20202-5335. Project manager: Yianni Alepohoritis. **Investing in Innovation (i3) Development Grants** CFDA #84.411C, STEM Pathways Applications

June 2-5, 2013, **Green River Regional Education Cooperative Science Plus** *Content Stretch Trainer (Engineering)*, Bowling Green, KY

April-May 2013: *Grant proposal content reviewer*, **United States Department of Educatio**n, Washington, D.C. 20202-5335. Project manager: Bonnie Carter. Office of Innovation and Improvement, **Magnet Schools Assistance Program** CFDA #84.165A

March 2013: Book Review, Estes, T., Mintz, S., and Gunter, M. (2011). Instruction: A Models Approach, 6th Ed., Pearson, Boston, MA, 356 pp.

September 2012: *Grant proposal content reviewer*, **United States Department of Education**, Washington, D.C. 20202-5335. Project manager: Folake Reed. **Investing in Innovation (i3) Development Grants** CFDA #84.411C, STEM Pathways Applications

August 2011-Present: **Preparing All Students for Success (PASS)/Council on Post-secondary education, Partnership Institute for Mathematics and Science Education Reform (PIMSER)**, served as a *consultant, project partner, workshop planner and facilitator*

August 2009-July 2016: **Green River Regional Education Cooperative Science Partnership Grant** *consultant and workshop planner*

November 2006-February 2012: **National Walking Horse Association** *Federal Compliance Liaison* to the United States Department of Agriculture Animal Care Division

August 2005-April 2016: **Tennessee Department of Agriculture Wildfire Prevention Program for Teachers of K-8**, *State Coordinator*

**Other Service Activities**

Proposal Reviewer, Hawaii University International Conference on Education and STEAM, January 2015-April 2015

FIRST Lego League Kentucky Regional Robotics Championship *Project Judge*, Western

Kentucky University,November 2014

WKU Ogden College Girls and Science Day *Presenter,* Western Kentucky University,

September 6, 2014

WKU College of Education and Behavioral Sciences Fall Fest Presenter, September 17, 2014

*Proficiency Evaluator*, Kentucky Teacher Professional Certification for Hanban Volunteer

Chinese Teachers, June 2014.

Proposal Reviewer, Hawaii University International Conference on Education and STEM, January 2014-April 2014

FIRST Lego League Kentucky State Robotics Championship *Project Judge*, Western Kentucky

University,January 2014

Day, M., Pesterfield, L., and McDaniel, A. (November 12, 2013). Preparing Research Posters for

Scholarly Presentations in the STEM Disciplines. Western Kentucky University Noyce Scholar Seminar Series *Presentation*.

*Proficiency Evaluator*, Kentucky Teacher Professional Certification for Hanban Volunteer Chinese Teachers, June 2013.

WKU Glasgow School Lunch Expo *Recruitment* Event, October 15, 2013

FIRST Lego League Kentucky State Robotics Championship *Project Judge*, Western Kentucky

University,February 2013

Day, M., Pesterfield, L., and McDaniel, A. (September 11, 2012). Preparing Research Posters for

Scholarly Presentations in the STEM Disciplines. Western Kentucky University Noyce Scholar Seminar Series *Presentation*.

*Proficiency Evaluator*, Kentucky Teacher Professional Certification for Hanban Volunteer Chinese Teachers, June 2012.

*Organizer*, Jefferson County Public Schools Mathematics and Science Teacher’s “Night at the Louisville Science Center”, Louisville Science Center, Louisville, KY, April 19, 2012

Day, M., Suzuki, T. & Zhang, J. (April 16, 2012). Working with Students from Asian Cultures,

A Teacher’s Guide to Cultural Competence. Western Kentucky University Confucius

Institute *Presentation*.

*Presenter*, Career Networking/Graduate Recruitment Event, Austin Peay State University, February 29, 2012

FIRST Lego League Kentucky State Robotics Championship *Project Judge*, Western Kentucky

University,January 2012

Stobaugh, B., Tassell, J., and Day, M., (October 11, 2011). Boosting Cognitive Complexity in Classroom Assessment for Math and Science Teachers. Western Kentucky University Noyce Scholar Seminar Series *Presentation*.

Day, M. Marchionda, H. and McDaniel, K., (September 13, 2011). Professional Organization Membership and Involvement for Pre-Service Teachers in Mathematics and Science. Western Kentucky University Noyce Scholar Seminar Series *Presentation*.

Allen County Schools Special Riders Program, SKyTeach *Volunteer Coordinator*, Scottsville,

Kentucky, August 2011-present

*Faculty Advisor*: SKySO, SKyTeach Student Organization at Western Kentucky University,

January 2011-present

*4-H Judging Team and Hippology Coach*, Allen County Agricultural Extension Service,

Scottsville, KY, January 2011-present

*Faculty Advisor*: Kappa Delta Pi, Student Chapter at Western Kentucky University, August

2009-October 2011

FIRST Lego League Kentucky State Robotics Championship *Project Judge*, Western Kentucky University,January 2011

Day, M. (February 18, 2010). Ping Pong Cannons and Gas Laws, 5E inquiry lesson design. Barren River Imaginative Science Museum/Western Kentucky University Science Circle for Middle School Science Teachers *Workshop Presenter*.

Follow the Reader Program at Western Kentucky University, *Student Mentee*, Jordan Sciano,

August-December 2010.

FIRST Lego League Kentucky State Robotics Championship *Project Judge*, Western Kentucky

University,January 2010

Day, M. (October 15, 2009). Building Conductivity Meters. Barren River Imaginative Science Museum/Western Kentucky University Science Circle for Middle School Science Teachers *Workshop Presenter*.

Central Utah Science and Engineering Fair,*Secondary Competition Judge*, March 2009.

Robertson/Davidson/Montgomery County Tennessee, *4-H Horse Program Volunteer Leader*,

2002-2008

*Special Olympics Equestrian Program Volunteer*,Franklin, TN, Summer 2001

**Faculty Development**

**Professional Development**

October 6-8, 2016: K-12 Cybersecurity Conference, National Initiative for Cybersecurity Education, Washington, D.C.

January 29, 2016: University of Kentucky Ag Equine Programs, 7th Annual Kentucky Breeder’s Short Course, Fayette County Extension, Lexington, KY.

December 15, 2016: PacifiChem Lecture, Sam Kean, “The Disappearing Spoon”, PacifiChem International Chemical Conference of Pacific Basin Societies, Honolulu, HI.

June 13, 2015: “12th Annual ASEE Workshop on K-12 Engineering Education”, ASEE National

Conference, Seattle, WA.

November 4-5, 2014: “3D Spatial Skills Workshop”, Sheryl Sorby, Harpeth Hall School for Girls STEM Center, Nashville, TN.

March 19, 2015: “Now and Not Yet: Forensic Drug Chemistry and the Future of Forensic Science”, Jeremy Triplett, Drug Chemistry Supervisor, Kentucky State Police Central Forensic Laboratory, Frankfort, KY, Presentation at Western Kentucky University, Bowling Green, KY.

March 17, 2014: The Fred Kavli Innovations in Chemistry Lecture, “Biodegradable Electronics”, John A. Rogers, ACS National Conference, Dallas, TX.

December 4, 2013: Jonathan Plucker, “Talent on the Sidelines, Excellence Gaps and America’s Persistent Talent Underclass” Seminar, Knicely Center, Bowling Green, KY

October 3, 2012: University of Kentucky Master Cattleman’s Field Day, UK Animal Research Center, Versailles, KY

June 18-2012 through September 17, 2012: University of Kentucky Agricultural Extension Service Master Cattleman’s Certification Course, South Central Kentucky

May 31, 2012: What’s it take to be a UTeach Co-Director?, UTeach National Conference, Austin, TX

May 30, 2012: Project 2061 Seminar: Using the NDSL Science Literacy Maps, UTeach National Conference, Austin, TX

March 26, 2012: The Kavli Foundation Innovations in Chemistry Lecture, Bioorthagonal Chemistry for life…literally, Carolyn Bertozzi, ACS National Conference, San Diego, CA

February 18, 2012: Avatars, Blabberize, and Cell Phones: ABCs of the Digital Age, Rebecca Stobaugh and Kay Gandy, AACTE National Conference, Chicago, IL

November 28, 2011: Discovery School Technology Training, Green River Regional Education Cooperative, Bowling Green, KY

March 11, 2011: The Physics and Mathematics of the Bicycle, NSTA National Conference, San Francisco, CA

March 26, 2011: How Poverty Affects Learning, Erin Jensen, ASCD National Conference, San Francisco, CA

November 11, 2010: Dissertation Chair Workshop, WKU, Bowling Green, KY

May 3-5, 2010: Crucial Conversations Training, Vital Smarts, Tampa, FL

March 26-27, 2010: Project Based Instruction Training, UTeach Institute, Austin, TX

October 15, 2010: Apprentice Teaching Training, UTeach Institute, Austin, TX

October 27, 2009: Ruby Payne Lecture, “A Framework for Understanding Poverty”, Western Kentucky University Western Kentucky University College of Education and Behavioral Sciences Lecture Series, Bowling Green, KY

October 26, 2009: Neil DeGrasse Tyson Astrophysics Lecture, Western Kentucky University Cultural Enhancement Series, Bowling Green, KY

October 8-9, 2009: Kentucky Grazing School, University of Kentucky Agricultural Extension Service, Lexington, KY

**Conference Attendance**

October 2016: School Science and Mathematics Annual Convention, Phoenix, AZ

October 2016: K-12 Cybersecurity Conference, Washington, D.C.

April 2016: American Educational Research Association Conference, Washington, D.C.

February 2016: Kentucky 4-H Volunteer Forum, Lexington, KY

January 2016: Clute Institute Conference, Orlando, FL

December 2015: PacifiChem Conference, Honolulu, HI

November 2015: American Evaluation Association Conference, Chicago, IL

September 2015: UTeach Co-Directors Conference, Dallas, TX

July 2015: International Conference on Learning, Madrid, Spain

June 2015: American Society of Engineering Education National Conference, Seattle, WA

May 2015: UTeach National Conference, Austin, TX

April 2015: American Educational Research Association National Conference, Chicago, IL

March 2015: Teaching Academic Survival Skills Conference, Ft. Lauderdale, FL

June 2014: Hawaii University International Conference on Science, Technology & Engineering, Honolulu, HI

May 2014: UTeach National Conference, Austin, TX

April 2014: American Educational Research Association National Conference, Philadelphia, PA

April 2014: National Science Teachers Association National Conference, Boston, MA

March 2014: American Chemical Society National Conference, Dallas, TX

October 2013: National Council of Teachers of Mathematics Regional Conference, Las Vegas, NV

September 2013: American Chemical Society National Conference, Indianapolis, IN

June 2013: Hawaii University International Conference on Science, Technology & Engineering, Honolulu, HI

May 2013: UTeach National Conference, Austin, TX

April 2013: National Science Teachers Association National Conference, San Antonio, TX

October 2012: American Evaluation Conference, Minneapolis, MN

October 2012: Consortium for Research on Educational Accountability and Teacher Evaluation National Evaluation Institute Conference, Washington, DC

October 2012: Kentucky Reading Association State Conference, Lexington, KY

October 2012: National Science Teachers Association Regional Conference, Louisville, KY

August 2012: American Chemical Society National Conference, Philadelphia, PA

June 2012: Kentucky Association of Gifted Education State Conference, Bowling Green, KY

May 2012: UTeach National Conference, Austin, TX

March 2012: National Science Teachers Association National Conference, Indianapolis, IN

March 2012: American Chemical Society National Conference, San Diego, CA

February 2012: American Association of Colleges of Teacher Education National Conference, Chicago, IL

May 2011: UTeach National Conference, Austin, TX

March 2011: National Science Teachers Association National Conference, San Francisco, CA

March 2011: Association for Supervision and Curriculum Development National Conference, San Francisco, CA

December 2010: National Science Teachers Association Regional Conference, Nashville, TN

October 2010: Kentucky Reading Association State Conference, Lexington, KY

May 2010: UTeach National Conference, Austin, TX

March 2010: National Science Teachers Association National Conference, Philadelphia, PA

April 2009: Utah Science Teachers Association State Conference, South Jordan, UT