

Suzanne Rushton Harper

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ACADEMIC BACKGROUND

<u>University of Virginia</u> <i>Ph.D., Mathematics Education, advisor, Dr. Joe Garofalo</i> <i>Dissertation: Elementary Pre-service Teachers' Knowledge of Geometric Transformations</i>	Charlottesville, Virginia <i>January 2002</i>
<u>Florida State University</u> <i>M.S., Mathematics Education</i>	Tallahassee, Florida <i>August 1995</i>
<u>Hollins College</u> <i>B.A. with honor, Mathematics, Computer Science</i>	Roanoke, Virginia <i>May 1993</i>

ACADEMIC EXPERIENCE

Higher Education

<u>Miami University</u> <i>Professor, Department of Mathematics</i> <i>Associate Professor, Department of Mathematics</i> <i>Assistant Professor, Department of Mathematics & Statistics</i>	Oxford, Ohio <i>2014 - present</i> <i>2008 - 2014</i> <i>2002 - 2008</i>
<u>University of Virginia</u> Charlottesville, Virginia <i>Lecturer, Department of Curriculum, Instruction & Special Education</i> <i>2001-2002</i>	
<u>University of Virginia</u> <i>Graduate Fellow, Center for Technology and Teacher Education</i> <i>Developed materials to prepare pre-service teachers to effectively integrate technology in middle and secondary mathematics</i> <i>Graduate Assistant, Curry School of Education</i> <i>Co-taught Secondary Mathematics Methods course, Secondary Mathematics Teaching</i>	Charlottesville, Virginia <i>1997- 2001</i>

Associateship seminar, and Secondary Mathematics Field Projects course; Supervised secondary mathematics student teachers; Co-taught Elementary Mathematics Methods
Hollins College Roanoke, Virginia
Lecturer, Department of Mathematics & Statistics 1997-1998
Taught Pre-Calculus and Mathematical Ideas

Florida State University Tallahassee, Florida
Graduate Teaching Assistant, Department of Mathematics 1993- 1995
Taught College Algebra, Trigonometry, Pre-Calculus and Business Calculus

HONORS, AWARDS & RECOGNITION

Miami University Associated Student Government 2019 Outstanding Professor Award Nominee

Miami University Excellence in Academic Advising 2019 Nominee

Miami University Center for Teaching Excellence Faculty Commendation for Positive Influence on Students, 2010, 2012 (Top 100 Faculty), 2013, 2014, 2015, 2016, 2017 (Top 100 Faculty), and 2018.

Miami University M. Pauline Priest Barney Mathematics Fellowship awarded to a member of the Department of Mathematics to support a major teaching project, 2018.

National Technology Leadership Initiative Award awarded to the best manuscript submitted to the Technology Committee of the Association of Mathematics Teacher Educators. Lee, H.S., Kersaint, G., Harper, S.R., Driskell, S., & Leatham, K. Teachers' statistical problem solving with dynamic technology: Research results across multiple institutions, 2012.

National Society of Leadership and Success Excellence in Teaching Award, 2012.

Miami University Alumni Association 2010-11 Effective Educator Award Nominee.

Miami University Alumni Association 2008-09 Effective Educator Award Nominee.

Miami University M. Pauline Priest Barney Mathematics Fellowship awarded to a member of the Department of Mathematics to support a major teaching project, June 2011.

National Technology Leadership Initiative Fellowship for Mathematics Education is co-sponsored by the Society for Technology and Teacher Education and Association of Mathematics Teacher Education, January 2004.

Phi Beta Kappa, Honor Society, 1993.

Sigma Xi, Scientific Research Society, 1993.

Elise Deyerle Lewis Award for Excellence in Mathematics, 1992.

Omicron Delta Kappa, Leadership Honor Society, 1992.

PUBLICATIONS

Peer Reviewed Journal Articles or Book Chapters (25)

Cox, D.C., **Harper, S.R.** & Edwards, M.T. (2018). Screencasting as a tool to capture moments of authentic creativity. In V. Freiman & J. Tassell, (Eds.), *Creativity and Technology in Mathematics Education* (Vol. 9 in *Mathematics Education in the Digital Era* Series) (pp. 33-57). New York: Springer.

Harper, S.R. & Cox, D.C. (2017). Quickfire challenges to inspire problem solving. *Mathematics Teacher*, 110(9), 686-692. [cover article]

Cox, D.C. & **Harper, S.R.** (2016). Documenting a developing vision of teaching mathematics with technology. In M.L. Niess, S. Driskell & K. Hollebrands, (Eds.), *Handbook of Research on Transforming Mathematics Teacher Education in the Digital Age* (pp. 166-189). Hershey, PA: IGI Global.

Nares, N., **Harper, S.R.**, Keiser, J.M. & Krumpe, N. (2014). Probability explorations in a cultural context. *Mathematics Teacher*, 108(3), 184-192.

Lee, H.S., Kersaint, G., **Harper, S.R.**, Driskell, S.O., Jones, D., Leatham, K., Angotti, R., & Adu-Gamfi, K. (2014). Teachers' use of transnumeration in solving statistical tasks with dynamic statistical software. *Statistics Education Research Journal*, 13(1), 25-52.

Edwards, M.T., **Harper, S.R.**, Quinlan, J., Phelps, S., & Cox, D. (2014). Cultivating deductive thinking with angle chasing. *Mathematics Teacher*, 107(6), 426-431.

Edwards, M.T., **Harper, S.R.**, & Cox, D. (2013). Authentic tasks in a standards-based world. *Mathematics Teacher*, 106(5), 346-353.

Edwards, M. T., **Harper, S.R.**, & Klein, R. M. (2013). And now this . . . problem: Neil Postman, technology, and the secondary school mathematics curriculum. In M. Clough, J. Olson & D. Niederhauser, (Eds.), *The Nature of Technology: Implications for Teaching and Learning* (pp. 163-188). Boston, MA: Sense Publishers.

Edwards, M.T., **Harper, S.R.**, Shay, N., & Edwards, J.F. (2012). Sample course 4: Adolescent mathematics II. In J.W. Nutta, K. Mokhtari, & C. Strebel (Eds.), *Preparing every teacher to reach English learners: A practical guide for teacher educators* (pp. 163-166).

Cambridge, MA: Harvard Education Press. Awarded the American Association of Colleges for Teacher Education 2013 Outstanding Book Award.

Lee, H. S., Kersaint, G., **Harper, S.**, Driskell, S. O., & Leatham, K. R. (2012). Teachers' statistical problem solving with dynamic technology: Research results across multiple institutions. *Contemporary Issues in Technology and Teacher Education*, 12(3). Retrieved from <http://www.citejournal.org/vol11/iss3/mathematics/article1.cfm>
Manuscript awarded the National Technology Leadership Initiative Award.

Harper, S.R. & Edwards, M.T. (2011). A new recipe: No more cookbook lessons. *Mathematics Teacher* 105(3), 180-188. [cover article]

Harper, S.R., Klein, R. & Edwards, M.T. (2010). On using technology to confront information overload in a mathematics classroom. *Journal of the Research Center for Educational Technology*, 6(2), pp. 48-62. Available: <http://www.rcetj.org/index.php/rcetj/article/view/124/221>

Edwards, M.T. & **Harper, S.R.** (2010). Paint bucket polygons: Explorations of meaningful mathematical definitions. *Teaching Children Mathematics*, 16(7), 220-228.

Niess, M. L., Ronau, R. N., Shafer, K. G., Driskell, S. O., **Harper S. R.**, Johnston, C., Browning, C., Özgün-Koca, S. A., & Kersaint, G. (2009). Mathematics teacher TPACK standards and development model. *Contemporary Issues in Technology and Teacher Education*, 9(1), 4-24. Available: <http://www.citejournal.org/vol9/iss1/mathematics/article1.cfm>

Harper, S.R. & Driskell, S. (2006, July 10). An investigation of historical geometric constructions. *Convergence: Where mathematics, history and teaching interact*, Article 1207. Retrieved July 13, 2006, from <http://mathdl.maa.org/mathDL/46/?pa=content&sa=viewDocument&nodeId=2361>

Rodrigues, M., **Harper, S.R.**, & Driskell, S.O. (2006). Sliders and parameters extend interactive software. *Mathematics Teacher*, 99(9), 627-631.

Harper, S.R. & Driskell, S.O. (2006). Constructing recursive geometric sketches. *Mathematics Teacher*, 99(6), 442-445.

Harper, S.R. & Driskell, S.O. (2005). Capturing video of dynamic computer activity. *Mathematics Teacher*, 99(2), 126-130.

Stohl, H. & **Harper, S.R.** (2004). Technology tips: Capturing and using computer images. *Mathematics Teacher*, 98(3), 200-204.

Stohl, H. & **Harper, S.R.** (2004). Technology tips: Graphing functions, tangents, and derivatives in Geometer's Sketchpad. *Mathematics Teacher*, 98(2), 136-140.

Harper, S.R. (2004). Students' interpretations of misleading graphs. *Mathematics Teaching in the Middle School*, 9(6), 340-343.

Harper, S.R., Schirack, S.O., Stohl, H.D., & Garofalo, J. (2001). Learning mathematics and developing pedagogy with technology: A reply to Browning and Klespis. *Contemporary Issues in Technology and Teacher Education*, 1(3), 346-354. Available: <http://www.citejournal.org/vol1/iss3/currentissues/mathematics/article1.htm>

Harper, S.R. (2001). Exploring infinite series using Baravelle spirals. *Virginia Mathematics Teacher*, 27(2), 46-54.

Garofalo, J., Drier, H.S., **Harper, S.R.**, Timmerman, M.A., & Shockey, T.L. (2000). Promoting appropriate uses of technology in mathematics teacher preparation. *Contemporary Issues in Technology and Teacher Education*, 1(1), 66-88. Available: <http://www.citejournal.org/vol1/iss1/currentissues/mathematics/article1.htm>

Garofalo, J., Shockey, T.L., **Harper, S.R.**, & Drier, H.S. (1999). Impact Project at Virginia: Promoting appropriate uses of technology in mathematics. *Virginia Mathematics Teacher*, 25(2), 14-15.

Refereed Conference Proceedings (9)

Harper, S.R. & Cox, D.C. (2019). A longitudinal study of inservice teachers' vision for teaching with technology. In (Eds.), *Proceedings of the 41st annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (pp. xxx). St. Louis, MO: University of Missouri.

Cox, D., **Harper, S.R.**, & Keiser, J.M. (2018). Reflecting on the act of defining. In T.E. Hodges, G. J. Roy, & A. M. Tyminski, (Eds.), *Proceedings of the 40th annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (pp. 735-738). Greenville, SC: University of South Carolina & Clemson University. Available: <http://www.pmena.org/pmenaproceedings/PMENA%2040%202018%20Proceedings.pdf>

Harper, S.R. & Cox, D.C. (2018). Screencasting to study creative insight and create records of authentic problem solving practice. In J. Foster (Ed.) *Proceedings of the Twenty-ninth Annual International Conference on Technology in Collegiate Mathematics [ICTCM]*. Available: <http://archives.math.utk.edu/ICTCM/>

Cox, D.C. & **Harper, S.R.** (2017). Using narratives to articulate mathematical problem solving and posing in a technological environment. In *Proceedings of the 39th annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education*. Indianapolis, IN. Available: <http://www.pmena.org/2017/>

Harper, S.R. & Cox, D.C. (2012). Developing TPACK alongside professional vision of teaching mathematics with technology. In L.R. Van Zoest, J.-J. Lo, & J.L. Kratky (Eds.) *Proceedings of the 34th annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (pp. 1073-1080). Kalamazoo, MI: Western Michigan University. Available: <http://www.pmena.org/2012/>

Lee, H.S., Driskell, S.O., **Harper, S.R.**, Leatham, K., Kersaint, G., & Agnotti, R. (2011). Prospective teachers' use of representations in solving statistical tasks with dynamic statistical software. In L. Wiest & Lamberg, T. (Eds.) *Proceedings of the 33rd annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (pp. 268-275). Reno, NV: University of Nevada, Reno. Available: <http://www.pmena.org/2011/>

Wanko, J.J., **Harper, S.R.**, Edwards, M.T., Johnson, I.D., & DeSaint-Rat, M. (2010). Listening to learn, learning to listen: Fostering practitioner pedagogical content knowledge with Thinker-Doer tasks. In P. Brosnan, Erchick, D.B., & Flevares, L. (Eds.) *Proceedings of the 32nd annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (pp. 1298-1307). Columbus, OH: The Ohio State University. Available: <http://www.pmena.org/2010/>

Harper, S.R. & Edwards, M.T. (2009). Purposeful dragging: Motivating deeper mathematical understanding through dynamic geometry exploration. In J. Foster (Ed.) *Proceedings of the Twenty-first Annual International Conference on Technology in Collegiate Mathematics [ICTCM]*, (pp. 123-127). Available: <http://archives.math.utk.edu/ICTCM/VOL21/S075/paper.pdf>

Harper, S.R. (2003). Enhancing elementary pre-service teachers' knowledge of geometric transformations through the use of dynamic geometry computer software. In C. Crawford, N. Davis, J. Price, R. Weber, & D.A. Willis (Eds.) *Proceedings of Society for Information Technology & Teacher Education International Conference 2003* (pp. 2909-2916). Chesapeake, VA: Association for the Advancement of Computing in Education. Available: <http://www.editlib.org/p/18593>

Invited Journal Articles and Publications (2)

Harper, S.R. (2004). Mathematics, technology in K-12 content areas. In A. Kovalchick & K. Dawson (Eds.), *Education and Technology: An Encyclopedia* (Vol. 2) (pp. 427-430). Santa Barbara, CA: ABC-CLIO.

Edwards, M.T. & **Harper, S.R.** (March 2008). Nspiring Times, Inquiring Minds: Fostering Critical Examinations of Curriculum with Handheld Graphing Technology. *Texas Instruments Mathematics Teacher Education eNewsletter*. Available online: <http://education.ti.com/educationportal/sites/US/nonProductSingle/technologyandinstruction.html>

PRESENTATIONS

Invited Presentations (2)

Harper, S.R., & Driskell, S.O. (March 2004). *Implementing performance-based technology standards in mathematics education courses*. Invited paper presented at the annual international meeting of the Society for Information Technology and Teacher Education, Atlanta, GA. Paper awarded the National Technology Leadership Initiative Fellowship.

Garofalo, J., **Harper, S.R.**, & Drier, H.S. (January 2001). *A beginner's guide to incorporating technology into secondary methods courses*. Invited workshop presented at the annual meeting of the Association of Mathematics Teacher Educators, Costa Mesa, CA.

International Conferences (5)

Harper, S.R., & Cox, D.C. (March 2017). *Screencasting to study creative insight and the problem solving process*. Session presented at the International Conference on Technology in Collegiate Mathematics, Chicago, IL.

Edwards, M.T., & **Harper, S.R.** (March 2009). *Purposeful dragging: Motivating deeper understanding of functions, domain, and continuity through dynamic geometry explorations*. Session presented at the International Conference on Technology in Collegiate Mathematics, New Orleans, LA.

Edwards, M.T., & **Harper, S.R.** (March 2009). *First steps in Sketchpad: A versatile software for all classes*. Session presented at the International Conference on Technology in Collegiate Mathematics, New Orleans, LA.

Harper, S.R. (March 2003). *Enhancing elementary pre-service teachers' knowledge of geometric transformations through the use of dynamic geometry computer software*. Paper presented at the annual meeting of the Society for Information Technology and Teacher Education, Albuquerque, NM.

Garofalo, J., Shockey, T.L., Drier, H.S., & **Rushton, S.** (March 1998). *Guidelines for incorporating technology into mathematics*. Paper presented at the annual meeting of the Society for Information Technology and Teacher Education, Washington, D.C.

National Conferences (40)

Harper, S.R. & Cox, D.C. (November 2019). A longitudinal study of inservice teachers' vision for teaching with technology. Session to be presented at the Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education, St. Louis, MO.

Harper, S.R., Keiser, J.M., & Cox, D.C. (February 2019). *Incorporating mathematical empathy and fluidity in the teaching of definition*. Session presented at the Association of Mathematics Teacher Educators, Orlando, FL.

Cox, D., **Harper, S.R., & Keiser, J.M.** (November 2018). *Reflecting on the act of defining*. Session presented at the Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education, Greenville, SC.

Cox, D.C., **Harper, S.R., & Keiser, J.M.** (February 2018). *Reflecting on the act of defining*. Poster Session presented at the Association of Mathematics Teacher Educators, Houston, TX.

Keiser, J.M., & **Harper, S.R.** (February 2018). *Infusing mathematics with history: A capstone course for prospective secondary mathematics teachers*. Session presented at the Association of Mathematics Teacher Educators, Houston, TX.

Cox, D.C., & **Harper, S.R.** (October 2017). *Using narratives to articulate mathematical problem solving and posing in a technological environment*. Paper presented at the Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education, Indianapolis, IN.

Cox, D.C., & **Harper, S.R.** (February 2017). *Screencasting as a tool to create records of authentic problem solving practice*. Session presented at the annual meeting of the Association of Mathematics Teachers Educators, Orlando, FL.

Harper, S.R., & Cox, D.C. (April 2016). *Get on board with GeoGebra*. Session presented at the annual conference of the National Council of Teachers of Mathematics, San Francisco, CA.

Edwards, M.T., **Harper, S.R.**, Özgün-Koca, A.S., Lapp, D., & Mohr-Schroeder, M. (January 2016). *Transforming an idea into an AMTE Publication Manuscript: Contemporary Issues in Technology and Teacher Education Journal*. Workshop session presented at the annual meeting of the Association of Mathematics Teacher Educators, Irvine, CA.

Keiser, J.M., Naresh, N., Edwards, T., **Harper, S.R.**, Cox, D.C., D'Ambrosio, B.S., & Suiter, D.C. (February 2015). *Straddling Two Worlds: Co-Creating Teaching Centered Professional Development*. Session presented at the annual meeting of the Association of Mathematics Teachers Educators, Orlando, FL.

Cox, D.C., & **Harper, S.R.** (February 2014). *Developing a course in mathematical problem solving with technology for preservice secondary teachers*. Session presented at the annual meeting of the Association of Mathematics Teachers Educators, Irvine, CA.

Walsh, K., & **Harper, S.R.** (August 2013). *Optimization with Geogebra*. Session presented at the Geogebra Dynamic Mathematics North American Conference, Oxford, OH.

Naresh, N., & **Harper, S.R.** (January 2013). *Secondary teacher candidates' perceptions of teaching and learning mathematics using multicultural activities*. Session presented at the annual meeting of the Association of Mathematics Teacher Educators, Orlando, FL.

Harper, S.R., & Cox, D. (November 2012). *Developing TPACK alongside professional vision of teaching mathematics with technology*. Session presented at the annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education, Kalamazoo, MI.

Harper, S.R., & Driskell, S.O. (April 2012). *Exploring middle grades geometry using Google SketchUp*. Session presented at the annual meeting of the National Council of Teachers of Mathematics, Philadelphia, PA.

Cox, D., & **Harper, S.R.** (January 2012). *Creating Opportunities for TPACK Development in Preservice Secondary Mathematics Teachers*. Session presented at the annual meeting of the Association of Mathematics Teacher Educators, Fort Worth, TX.

Lee, H.S., Adu-Gyamfi, K., Driskell, S.O., **Harper, S.R.**, Kersaint, G., & Leatham, K.R. (January 2012). *Teachers' statistical problem solving with dynamic technology: Research results across multiple institutions*. Session presented at the annual meeting of the Association of Mathematics Teacher Educators, Fort Worth, TX.

Lee, H.S., Driskell, S.O., **Harper, S.R.**, Leatham, K.R., Kersaint, G., & Angotti, R.L. (October 2011). *Prospective teachers' use of representations in solving statistical tasks with dynamic statistical software*. Session presented at the annual meeting of the North

American Chapter of the International Group for the Psychology of Mathematics Education, Reno, NV.

Wanko, J.J., **Harper, S.R.**, Edwards, M.T., Johnson, I.D., & deSaint-Rat, M. (October 2010). *Listening to learn: fostering practitioner pedagogical content knowledge with thinker-doer tasks*. Session presented at the Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education, Columbus, OH.

Harper, S.R., & Edwards, M.T. (April 2010). *Paint bucket polygons: Geometry concepts in high definition*. Session presented at the annual meeting of the National Council of Teachers of Mathematics, San Diego, CA.

Johnston, C., Browning, C., Driskell, S., Özgün-Koca, S.A., **Harper, S.**, & Mathews, S. (January 2010). *Developing teachers' mathematics TPACK: Showcasing exemplary technology tools and their uses in mathematics education*. Workshop presented at the annual meeting of the Association of Mathematics Teacher Educators, Irvine, CA.

Niess, M., Driskell, S.O., Pugalee, D., Ronau, R., **Harper, S.R.**, Shafer, K., Johnston, C., & Weinhold, M. (January 2009). *Using technology standards for mathematics teachers to design learning environments and experiences for methods courses*. Workshop presented at the annual meeting of the Association of Mathematics Teacher Educators, Orlando, FL.

Harper, S.R., Driskell, S.O., & Nickell, J. (April 2008). *Exploring probabilities by simulating card games using Fathom*. Session presented at the annual meeting of the National Council of Teachers of Mathematics, Salt Lake City, UT.

Nickell, J., **Harper, S.R.**, & Driskell, S.O. (April 2008). *Using technology-based projects to foster geometric thinking in the middle grades*. Session presented at the annual meeting of the National Council of Teachers of Mathematics, Salt Lake City, UT.

Niess, M., **Harper, S.R.**, Browning, C., Ronau, R., Shafer, K., Pugalee, D., & Driskell, S.O. (January 2008). *Preparing teachers with mathematics TPACK (Technological Pedagogical Content Knowledge)*. Workshop session presented at the annual meeting of the Association of Mathematics Teacher Educators, Tulsa, OK.

Driskell, S.O., **Harper, S.R.**, & Edwards, M.T. (January 2008). *Using Fathom with prospective teachers*. Session presented at the annual meeting of the Association of Mathematics Teacher Educators, Tulsa, OK.

Driskell, S.O., **Harper, S.R.**, & Rider, R. (March 2007). *Exploring some "Technology Tips" from The Mathematics Teacher*. Session presented at the annual meeting of the National Council of Teachers of Mathematics, Atlanta, GA.

Harper, S.R., Driskell, S. O., & Rider, R. (April 2006). *Exploring some "Technology Tips" from The Mathematics Teacher*. Session presented at the annual meeting of the National Council of Teachers of Mathematics, St. Louis, MO.

Keiser-Krumpe, J.M., & **Harper, S.R.** (January 2006). *"I understand it, I just don't know how to say it": Developing students' communication skills in mathematics content courses*. Session presented at the annual meeting of the Association of Mathematics Teacher Educators, Tampa, FL.

Driskell, S. O., & **Harper, S.R.** (January 2005). *Integrating The Geometer's Sketchpad in secondary preservice teacher content courses*. Session presented at the annual meeting of the Association of Mathematics Teacher Educators, Dallas, TX.

Harper, S.R., & Driskell, S.O. (April 2004). *Using dynamic geometry software to explore topics in mathematics history*. Session presented at the annual meeting of the National Council of Teachers of Mathematics, Philadelphia, PA.

Harper, S.R., & Driskell, S.O. (January 2004). *Implementing performance-based technology standards in mathematics education courses*. Session presented at the annual meeting of the Association of Mathematics Teacher Educators, San Diego, CA.

Wanko, J.J., **Harper, S.R.**, & Johnson, I. (January 2004). *Designing and assessing mathematical projects: Addressing the NCATE performance standards*. Session presented at the annual meeting of the Association of Mathematics Teacher Educators, San Diego, CA.

Driskell, S.O., **Harper, S.R.**, & Timmerman, M.A. (April 2003). *Uncovering children's misconceptions of shapes using Shape Makers*. Session presented at the annual meeting of the National Council of Teachers of Mathematics, San Antonio, TX.

Driskell, S.O., **Harper, S.R.**, & Timmerman, M.A. (January 2003). *Elementary preservice teachers' and students' conceptual understanding of geometric topics*. Session presented at the annual meeting of the Association of Mathematics Teacher Educators, Atlanta, GA.

Harper, S.R., Stohl, H.S., & Enderson, M. (January 2002). *Prospective teachers' development of mathematical, pedagogical, and technological knowledge*. Session presented at the annual meeting of the Association of Mathematics Teacher Educators, San Antonio, TX.

Harper, S.R., Garofalo, J., & Drier, H.S. (April 2000). *Preparing preservice secondary school teachers to use technology appropriately*. Session presented at the annual meeting of the National Council of Teachers of Mathematics, Chicago, IL.

Garofalo, J., Drier, H., **Harper, S.**, Horton, B., & Pullano, F. (February 2000). *Integrating technology in pre-service secondary methods courses: Evaluation and dissemination of Impact project materials*. Session presented at the annual meeting of the Association of Mathematics Teacher Educators, Charlotte, NC.

Harper, S.R., & Shockey, T.L. (April 1999). *Exploring recursion through various technologies*. Session presented at the annual meeting of the National Council of Teachers of Mathematics, San Francisco, CA.

Drier, H.S., **Rushton, S.**, & Shockey, T.L. (April 1998). *Algebra in the middle school? You bet!* Workshop presented at the annual meeting of the National Council of Teachers of Mathematics, Washington, D.C.

Regional Conferences (10)

Cox, D.C., & **Harper, S.R.** (June 2015). *Getting our feet wet: Exploring GeoGebra tube*. Session presented at the annual meeting of the Geogebra Midwest Regional Conference, Oxford, OH.

Harper, S.R., & Cox, D.C. (June 2015). *From the ground up: Constructing your own GeoGebra files*. Session presented at the annual meeting of the Geogebra Midwest Regional Conference, Oxford, OH.

Driskell, S.O., & **Harper, S.R.** (November 2013). *Using dynamic shapes to explore properties of shapes*. Session presented at the regional meeting of the National Council of Teachers of Mathematics, Louisville, KY.

Harper, S.R., & Driskell, S.O. (June 2012). *Using Geogebra to enhance prospective middle school teachers' classification of two-dimensional shapes*. Session presented at the annual meeting of the Geogebra Midwest Regional Conference, Oxford, OH.

Harper, S.R., & Driskell, S.O. (October 2008). *Helping middle school students develop spatial visualization skills*. Workshop presented at the regional meeting of the National Council of Teachers of Mathematics, Cleveland, OH.

Harper, S.R., & Driskell, S.O. (November 2005). *Developing geometric content knowledge in the middle grades*. Session presented at the Western regional conference of the National Council of Teachers of Mathematics, Denver, CO.

Driskell, S.O., & **Harper, S.R.** (November 2005). *Constructing student's understanding about division with fractions*. Session presented at the Western regional conference of the National Council of Teachers of Mathematics, Denver, CO.

Harper, S.R. (November 2003). *Learning to teach mathematics with technology*. Session presented at the Southern regional conference of the National Council of Teachers of Mathematics, Charleston, SC.

Harper, S.R., Shockey, T.L., Drier, H.S., & Garofalo, J. (February 1999). *Exploring recursion through various technologies*. Session presented at the Southeast regional conference of the National Council of Teachers of Mathematics, Charlotte, NC.

Drier, H.S., & **Harper, S.R.** (February 1999). *Middle school mathematics for the 21st century*. Workshop presented at the Southeast regional conference of the National Council of Teachers of Mathematics, Charlotte, NC.

State Conferences (16)

Harper, S.R., & Cox, D. (October 2017). *Using mathematical quickfire challenges as opportunities for modeling, problem solving, and formative assessment*. Session to be presented at the annual meeting of the Ohio Council of Teachers of Mathematics, Columbus, OH.

Cox, D., & **Harper, S.** (October 2017). *Connecting via Twitter: Which one doesn't belong?* Session to be presented at the annual meeting of the Ohio Council of Teachers of Mathematics, Columbus, OH.

Harper, S.R., & Cox, D.C. (October 2015). *Function and PreCalculus Investigations*

using *GeoGebra*. Session presented at the annual meeting of the Ohio Council of Teachers of Mathematics, Cincinnati, OH.

Harper, S.R., Cox, D.C., & Edwards, M.T. (October 2013). *Developing deductive reasoning with angle chasing*. Session presented at the annual meeting of the Ohio Council of Teachers of Mathematics, Dayton, OH.

Driskell, S.O., & **Harper, S.R.** (October 2011). *Geometry and Pre-Calculus Investigations using GeoGebra*. Session presented at the annual meeting of the Ohio Council of Teachers of Mathematics, Toledo, OH.

Harper, S.R., Cox, D.C., & Edwards, M.T. (October 2011). *Kick it up a Notch - Transform Procedural Problems into Opportunities*. Session presented at the annual meeting of the Ohio Council of Teachers of Mathematics, Toledo, OH.

Driskell, S.O., & **Harper, S.R.** (November 2009). *Fostering Spatial Visualization Ability through Hands-On and Technology-Based Activities*. Session presented at the annual meeting of the Ohio Council of Teachers of Mathematics, Cincinnati, OH.

Harper, S.R., & Driskell, S.O. (October 2006). *Using dynamic geometry software for more than just high school geometry*. Session presented at the annual meeting of the Ohio Council of Teachers of Mathematics, Toledo, OH.

Driskell, S.O., & **Harper, S.R.** (October 2006). *Using technology to explore properties of two-dimensional shapes*. Session presented at the annual meeting of the Ohio Council of Teachers of Mathematics, Toledo, OH.

Harper, S.R., & Driskell, S.O. (October 2005). *Illustrating Some History of Greek Mathematics with Dynamic Geometry Software*. Session presented at the annual meeting of the Ohio Council of Teachers of Mathematics, Dayton, OH.

Driskell, S.O., & **Harper, S.R.** (October 2005). *Hands-on Learning about Division with Fractions*. Session presented at the annual meeting of the Ohio Council of Teachers of Mathematics, Dayton, OH.

Harper, S.R., & Driskell, S.O. (October 2003). *Making geometric connections to pre-calculus and calculus topics using The Geometer's Sketchpad*. Session presented at the annual meeting of the Ohio Council of Teachers of Mathematics, Cleveland, OH.

Harper, S.R. (March 2001). *Problem solving and reasoning with The Geometer's Sketchpad*. Session presented at the annual meeting of the Virginia Council of Teachers of Mathematics, Harrisonburg, VA.

Harper, S.R., & Schirack, S.O. (March 2000). *Exploring algebra and pre-calculus topics using The Geometer's Sketchpad*. Session presented at the annual meeting of the Virginia Society of Technology in Education, Roanoke, VA.

Garofalo, J., Drier, H.S., Shockey, T.L., & **Harper, S.R.** (May 1998). *An introduction to graphing calculators*. Workshop at the annual meeting of the Virginia Society of Technology in Education, Roanoke, VA.

Shockey, T.L., **Harper, S.R.,** & Drier, H.S. (May 1998). *Exploring mathematics with technology: Data analysis activities*. Session presented at the annual meeting of the Virginia Society of Technology in Education, Roanoke, VA.

Local Conferences (9)

Cox, D.C. & **Harper, S.R.** (January 2019). *The geometry of gerrymandering*. Session presented at the Careers Involving Quantitative Skills (CIQS) Conference, Miami University, Oxford, OH.

Harper, S.R. (September 2018). *Visualizing proof ... without words*. Session presented at the Miami University Department of Mathematics Conference, Oxford, OH.

Cox, D.C., & **Harper S.R.** (September 2017). *Using Geogebra to Explore the Geometry of Integration*. Session presented at the Miami University Department of Mathematics Conference, Oxford, OH.

Harper, S.R. (September 2017). *Mathematics Education at Miami University*. Session presented to the Miami University Council of Teachers of Mathematics, Miami University, Oxford, OH.

Brezhneva, O., Tai, H., Walsh, K., & **Harper, S.R.** (March 2017). *Understanding culturally-based mathematics algorithms*. Session presented to the Miami University Council of Teachers of Mathematics, Miami University, Oxford, OH.

Cox, D., Edwards, M.T., & **Harper, S.R.** (May 2010). *Project EFFECT: Strengthening pre-service teacher mathematical content knowledge*. Colloquium presented to the Department of Mathematics at Wright State University, Dayton, OH.

Farmer, T., Pritikin, D., & **Harper, S.R.** (September 2009). *Redesigning Calculus I*. Session presented at the Miami University Department of Mathematics Conference, Oxford, OH.

Harper, S.R. (April 2003). *Using technology to explore iterative processes*. Invited talk presented to the Miami University Chapter of Pi Mu Epsilon, Oxford, OH.

Harper, S.R. (April 2003). *Using technology-based interactive mathematics projects in the K-12 classroom*. Invited talk presented to the Miami University Council of Teachers of Mathematics, Oxford, OH.

GRANT ACTIVITY

External Grants

Miami University Council of Teachers of Mathematics Family Math Night. (February 2019). An Emalou Brumfield Affiliate Grant funded by the Ohio Council of Teachers of Mathematics was written by Lindsey States and **Suzanne Harper** in collaboration with the MUCTM executive board. The funding will supplement the costs associated with conducting a Family Math Night with parents and students at Kramer Elementary School on March 14, 2019. This conference provides first and third-grade students with the opportunity to engage with mathematics outside of their classroom. PIs: Jenna Odom, Maria Kruger and **Suzanne Harper**, (\$500)

Miami University Council of Teachers of Mathematics Kid's Conference. (March 2018). An Emalou Brumfield Affiliate Grant funded by the Ohio Council of Teachers of Mathematics was written by Lindsey States and **Suzanne Harper** in collaboration with the MUCTM executive board. The funding will supplement the costs associated with conducting a conference with students at E.H. Greene Intermediate School on April 21, 2018. This conference provides fifth and sixth-grade students with the opportunity to engage with mathematics and science outside of their classes. PIs: Lindsey States and **Suzanne Harper**, (\$500)

Miami University Council of Teachers of Mathematics Kid's Conference. (March 2017). An Emalou Brumfield Affiliate Grant funded by the Ohio Council of Teachers of Mathematics was written by Allyson Klovekorn and **Suzanne Harper** in collaboration with the MUCTM executive board. The funding will supplement the costs associated with conducting a conference with students at E.H. Greene Intermediate School on April 22, 2017. This conference provides fifth and sixth-grade students with the opportunity to engage with mathematics and science outside of their classes. PIs: Allyson Klovekorn and **Suzanne Harper**, (\$500)

Project DOVETAIL: Developing Ownership & Vision: Empowering Teachers As Instructional Leaders. (2013-2015). Project DOVETAIL is a two-year professional development project that capitalizes upon the collective efforts of three instructional partners, namely Miami University, Talawanda School District, and the McGuffey Montessori School. The key goals of this project are a) to provide classroom teachers and their students with enhanced content knowledge in the domains of Measurement and Data and b) to provide participants an opportunity to experience and explore connections between academic mathematics and the mathematics of the real world. Co-PI of the grant to the Ohio Mathematics and Science Partnership [Program Solicitation ODE], Submitted August 20, 2013. PI: Dana C. Cox & Nirmala Naresh; Co-PI: Jane Keiser, **Suzanne Harper**, Beatriz D'Ambrosio & M. Todd Edwards, Miami University. (\$696,568)

Miami University Partnership for Enhancing the Teaching of Mathematics. (2007-2010). A three-year grant funded by the Ohio Department of Education to provide professional development experiences to increase teachers' knowledge of mathematics content found in the *Ohio Mathematics Academic Content Standards* as measured on pre- and post-tests of mathematical content knowledge; increase teachers' ability to support and develop resources for meeting the needs of all learners, as evidenced by observation of classroom practice, task design, and self-report; and identify the difficulties of their students in learning particular concepts. PIs: Beatriz D'Ambrosio, Michael Todd Edwards, **Suzanne Harper**, and Iris Deloach Johnson, Miami University. (\$717,188)

Hands On Geometry Project. (January 2004). A grant written by Shannon Driskell, Scott Sportsman, and **Suzanne Harper** in collaboration with Hamilton City Schools and the Ohio Board of Regents was funded to conduct workshops with middle school mathematics teachers between March 2004 and May 2005. A major goal of the grant was centered on increasing the teachers' content knowledge of the Benchmarks for Geometry and Measurement in the Ohio Academic Content Standards. My duties included designing and co-teaching over 40 hours of instruction to fifth- and sixth- grade teachers. PIs: Shannon Driskell, University of Dayton and Scott Sportsman, College of Mount St. Joseph. **(\$121,060)**

Internal Grants

Elevating the Mathematical Profile of STEM Instruction at Miami University. Grant submitted to the Miami University Student Technology Fee Competitive Proposal Process, Miami University, February 2017. PIs: Dana Cox & **Suzanne Harper**, Miami University. **(\$2020)**

Miami University Council of Teachers of Mathematics National Conference Attendance (February 2011). The Miami Council of Teachers of Mathematics, an affiliate organization of NCTM, is a student-run organization that is dedicated to the improvement of professional preparation for teachers of school mathematics. We have approximately 60 members, and our attendance at monthly meetings is over 50 students. The goal of our project was to send 8 pre-service mathematics teachers to the national NCTM conference in Indianapolis, Indiana in April 2011. The pre-service teachers who attend the conference will greatly benefit by learning concepts, strategies, and techniques from some of the most knowledgeable people in mathematics education. The presentations – more than 1000 in all – cover all the grade levels and major mathematics content strands as well as research and policy issues and important topics like assessment. Students will meet teacher leaders and other educators to begin building their own professional network and learn about new career, grant and professional development opportunities. PI: **Suzanne Harper**, Miami University. **(\$1400)**

Miami University Council of Teachers of Mathematics National Conference Attendance (February 2008). A grant funded by the Miami University Parent's Council Fund. The goal of the project is to send six pre-service mathematics teachers to the national NCTM conference in Salt Lake City, Utah in April 2008. The pre-service teachers who attend the conference will greatly benefit by learning concepts, strategies, and techniques from some of the most knowledgeable people in mathematics education. The presentations – more than 1000 in all – cover all the grade levels and major mathematics content strands as well as research and policy issues and important topics like assessment. Students will meet teacher leaders and other educators to begin building their own professional network

and learn about new career, grant and professional development opportunities. PI: **Suzanne Harper**, Miami University. (\$750)

Mathematics and Statistics Interactive Learning Classroom (July 2008). A grant funded by the Miami University New Technology Innovation Fund. The Department of Mathematics and Statistics would like to create a classroom equipped with a Smart Board and document camera to be utilized by the students of mathematics, statistics and mathematics education. This classroom will not only allow student to experience mathematics and statistics classes in a more interactive learning environment, but also allow professors to model appropriate pedagogical strategies using technology for those students of mathematics education. PI: **Suzanne Harper**, Miami University. (\$5908)

Facilitating Middle School Mathematics Pre-Service Teachers to Analyze Data and Understand Statistical Inference through the use of Technology. Grant received from the Center for the Enhancement of Learning and Teaching, Miami University, August 2005. PI: **Suzanne Harper**, Miami University. (\$300)

Analyzing Data and Understanding Statistical Inference Through the Use of Technology. Grant received from the College of Arts and Sciences Faculty Development Program, September 2003. PI: **Suzanne Harper**, Miami University. (\$700)

Investigation of Prospective Teachers' Knowledge of Geometric Transformations using Dynamic Geometry Software. Grant received from the College of Arts and Sciences New Tenure-Track Faculty Summer Research Grant Program, October 2003. PI: **Suzanne Harper**, Miami University. (\$6000)

TEACHING & CURRICULUM DEVELOPMENT

Courses Taught

Miami University (2002-present)

Undergraduate

MTH 115: *Mathematics for Elementary School Teachers I*

MTH 116: *Mathematics for Elementary School Teachers II*

MTH 151: *Calculus I*

MTH 218: *Geometry for Middle Childhood Teachers*

MTH 330: *Ohio Assessment for Educators Problem Seminar*

MTH 407: *Mathematical Patterns and Structures through Inquiry*

MTH 408: *Mathematical Problem Solving with Technology*

MTH 409: *Secondary Mathematics from an Advanced Perspective*

EDT 465: *Computing Technology Applied to Mathematics*

Masters

MTH 507: *Mathematical Patterns and Structures through Inquiry*

MTH 508: *Mathematical Problem Solving with Technology*

MTH 509: *Secondary Mathematics from an Advanced Perspective*

MTH 604: *Discrete Mathematics for Secondary Teachers*

MTH 605: *Calculus for Secondary Teachers*

EDT 565: *Computing Technology Applied to Mathematics*

EDT 566: *Diagnostic, Prescriptive, and General Mathematics*

EDT 660: *Current Issues and Research in Mathematics Education*

University of Virginia (1998-2002)**Masters**

EDIS 532: *Teaching Mathematics in the Elementary School*

EDIS 545: *Secondary Mathematics Methods*

EDIS 587: *Mathematics Education Teaching Associateship Seminar*

EDIS 588: *Mathematics Teaching Associateship*

EDIS 788: *Secondary Mathematics Field Project*

Hollins College (1997-1998)**Undergraduate**

MATH 110: *Mathematical Ideas*

MATH 140: *Precalculus*

Florida State University (1993-1995)**Undergraduate**

MAC 1105: *College Algebra*

MAC 1114: *Analytic Trigonometry*

MAC 1140: *Precalculus Algebra*

MAC 2233: *Calculus for Business*

Curriculum Development

As part of the mathematics team at the Center for Technology and Teacher Education, we developed materials to help pre-service and in-service teachers effectively integrate technology into the middle and secondary mathematics curriculum. The materials utilize technology tools such as *The Geometer's Sketchpad*, *Microsoft Excel*, *MicroWorlds (Logo)*, interactive websites, and graphing calculators. Materials have been disseminated for use in mathematics methods courses at other colleges and universities.

IN-SERVICE WORKSHOPS & PROJECTS

Harper, S. R. (April, 2008). *Introduction to Dynamic Geometry Software: Ohio Mathematics Program Model*. Three-hour workshop for High School Mathematics Teachers at Meadowdale and Thurgood Marshall High Schools, Dayton, OH.

Harper, S. R. & Edwards, M.T. (March, 2008). *Dynamic Geometry Software not just for Geometry*. Two-hour workshop for Talawanda High School Mathematics Teachers, Oxford, OH.

Harper, S. R. & Edwards, M.T. (March, 2008). *Effectively Using Dynamic Geometry Software*. Two-hour workshop for Talawanda High School Mathematics Teachers, Oxford, OH.

Reaching Academic Mathematics Proficiency II Workshops. (November 2004). A grant written by Jeffery Wanko in collaboration with Hamilton City Schools and the Discovery Center at Miami University was funded to conduct workshops with middle school mathematics teachers between March 2005 and April 2006. A major goal of the grant was centered on increasing the teachers' content knowledge of the Benchmarks for Geometry and Measurement in the Ohio Academic Content Standards. My duties included designing and co-teaching over 40 hours of instruction to fifth- and sixth- grade teachers. PI: Jeffery Wanko, Miami University. (\$168,349)

Encouraging Proficiency in Content: Mathematics for Middle Grade Teachers. (September 2004). A grant written by Iris DeLoach Johnson and Jane Keiser was funded by the Ohio Department of Education to conduct workshops with middle school mathematics teachers between January and December 2005. A major goal of the grant was to provide graduate level credits of mathematics content in alignment with the Ohio Mathematics Academic Content Standards, with an instructional delivery system in close alignment with the Ohio Mathematical Processes Standard, and standards-based pedagogy. My duties included co-teaching over 36 hours of instruction to middle school teachers. PIs: Iris DeLoach Johnson and Jane Keiser, Miami University. (\$294,751)

Harper, S.R., Drier, H.S., & Garofalo, J. (1999-2002). *Integrating technology in middle and secondary school mathematics*. A three-year professional development project with teachers as part of the XL Education Initiative, Hamilton, Bermuda.

Harper, S.R. (March, 2000). *Teaching multiplication and division of fractions for understanding*. A staff development workshop Charlottesville City middle school teachers, Charlottesville, VA.

Harper, S.R. (January, 2000). *Teaching geometry through problem solving activities*. A staff development workshop Charlottesville City middle school teachers, Charlottesville, VA.

Harper, S.R. (October, 1999). *Geometry for elementary school teachers*. A staff development workshop Charlottesville City middle school teachers, Charlottesville, VA.

Harper, S.R. (October, 1999). *Exploring mathematics with The Geometer's Sketchpad*. A professional development workshop with teachers at Nelson County High School, Lovingston, VA.

Drier, H.S., **Harper, S.R.**, Shockey, T.L., Garofalo, J., & Timmerman, M.A. (1998-99). *Using technology to explore middle and secondary school mathematics*. A three-day in-service project with teachers in Albemarle County Public Schools, Charlottesville, VA.

Harper, S.R., Shockey, T.L., & Drier, H. S. (July, 1998). *Integrating the Virginia Technology Standards of Learning into the eighth grade mathematics curriculum*. A four day in-service project with mathematics and technology teachers in Pittsylvania County Schools, Chatham, VA.

NATIONAL & STATE PROFESSIONAL SERVICE

Association of Mathematics Teacher Educators 2019-2022

Member of the AMTE Conferences Committee

This appointment is to provide support to all involved in the planning of the 2020, 2021, and 2022 AMTE national conferences.

Southwest Ohio Council of Teacher of Mathematics 2017-2019

Elected Vice President – Post Secondary

As an elected member of the Executive Board, the Southwest Ohio Council of Teachers of Mathematics Executive is a group of local educators that have an interest in supporting math education in the region. Our goal is to connect educators with people, resources and learning opportunities to stretch their thinking and grow their mathematical instruction.

Association of Mathematics Teacher Educators 2019

Member of the AMTE Ad-Hoc Program Committee

This appointment is to provide a report of guidance and recommendations on the conference program strands that reflect the AMTE Standards and the needs of our membership; and evaluate the current proposal evaluation rubric.

Association of Mathematics Teacher Educators 2017-2019

Vice President for Communications and Outreach

Appointed by the President of AMTE, the Vice-President for Communications and Outreach facilitates the organization's ability to carry out its programs and activities by organizing and supporting AMTE's efforts to communicate information and resources to its members, sponsors, and donors. The Vice-President for Communications and

Outreach is charged with the coordination of all marketing, media and sponsorship-related activities of the organization, including AMTE's online presence, sponsorship campaigns and opportunities, and marketing the brand of AMTE in the public arena.

Association of Mathematics Teacher Educators 2017-2018

Member of the AMTE Conference Director Task Force

This appointment is to provide guidance and recommendations to identify a new AMTE Conference Associate Vice President, and reconceptualize the current role.

Association of Mathematics Teacher Educators 2016-2017

Member of Membership Committee

The Membership Committee is charged to promote the mission and goals of AMTE by reviewing current member benefits and making recommendations to the Board for changes/additions to strengthen services provided to members; seeking information from current members regarding information and services they seek from AMTE; developing and overseeing membership recruitment initiatives, reviewing and recommending revisions to the AMTE membership recruitment materials (print and online).

Association of Mathematics Teacher Educators 2015-2017

Member of the Celebrations Task Force

This appointment is to provide inspiration, plan and implement celebrations involving the 25th anniversary of AMTE and for the 20th AMTE conference in 2016.

Association of Mathematics Teacher Educators 2013-2016

Elected Treasurer and Voting Member on the Board of Directors

The treasurer transacts the financial affairs of the Association upon recommendation of the Board of Directors; maintains a current and accurate membership list; maintains the Association's non-profit status; prepares financial reports to be presented at the meetings of the Board of Directors; and prepares an annual report to be presented at AMTE's annual business meeting.

Ohio Journal of School Mathematics 2012-present

Manuscript Referee

The *Ohio Journal of School Mathematics* is the journal of the Ohio Council of Teachers of Mathematics. It is intended to be a medium for teachers from elementary to college level to present their ideas and beliefs about the teaching and learning of mathematics.

Midwest Geogebra Journal 2012-present

Manuscript Referee

Midwest GeoGebra Journal is the official publication of the GeoGebra Institute of Ohio. It publishes articles about the use of GeoGebra Dynamic Mathematics Software in teaching

and learning of mathematics at all levels. The journal provides a medium by which a wide range of experiences in mathematics education can be presented, discussed, criticized and best practice assimilated into the new curricula of schools, colleges and universities.

The Mathematics Teacher

2012-present

Manuscript Referee

The *Mathematics Teacher*, an official journal of the National Council of Teachers of Mathematics, is devoted to improving mathematics instruction from grade 8-14 and supporting teacher education programs. It provides a forum for sharing activities and pedagogical strategies, deepening understanding of mathematical ideas, and linking mathematics education research to practice. *Mathematics Teacher* solicits submissions from high school mathematics teachers, university mathematicians, and mathematics educators and strongly encourages manuscripts in which ideas relate to classroom practice.

Association of Mathematics Teacher Educators

2011-2014

Member of the AMTE Conference Leadership Committee

This appointment is to provide support to all involved in the planning of the 2012, 2013, and 2014 AMTE national conferences.

Association of Mathematics Teacher Educators

2009-2014

Chair of the 2013 National Conference Program Committee

Assistant Chair of the 2012 National Conference Program Committee

Member of the 2011 National Conference Program Committee

The role of the AMTE Program Committee is to identify potential key note speakers, review proposals and ensure the success of the national conference. I personally reviewed 64 two-page proposals submitted to the Mathematics Content Knowledge strand for the 2012 conference. I also helped to identify potential key note speakers, review proposals and ensure the success of the 2011 conference.

Miami University Council of Teacher of Mathematics

2005-present

Faculty Advisor

Miami University Council of Teachers of Mathematics (MUCTM) is an organization that exists solely for the purpose of bettering mathematics education. Its members are dedicated education students and teachers who meet and discuss the current trends and future of their field. MUCTM hosts four meetings each semester where a guest speaker gives a presentation on an aspect of teaching mathematics. MUCTM is an affiliate of the Ohio Council of Teachers of Mathematics and the National Council of Teachers of Mathematics.

Contemporary Issues in Technology and Teacher Education

2005-present

Member of the Review Board

An electronic publication of the Society for Information Technology and Teacher Education (SITE), established as a multimedia, interactive counterpart of the *Journal of Technology and Teacher Education*. Funded by the U.S. Department of Education Preparing Tomorrow's Teacher to Use Technology (PT3) catalyst grant, CITE makes possible the inclusion of sound, animated images, and simulation, as well as allowing for ongoing, immediate dialog about theoretical issues.

Association of Mathematics Teacher Educators

2008-2009

Member of the Monograph Editorial Panel

Reviewed and solicited submissions for the 2009 AMTE Monograph: *Scholarly Practices and Inquiry in the Preparation of Mathematics Teachers*, Volume 6. Edited by Denise Mewborn and Hollylynne Lee.

National Council of Teachers of Mathematics

2007-2008

Member for the 2008 Regional Conference Program Committee

I identified and solicited key note speakers, reviewed proposals and ensured the success of the 2008 regional NCTM conference in Oklahoma City, OK.

Association of Mathematics Teacher Educators

2006-2008

Member of Technology Committee

The role of the AMTE Technology Committee is to promote the investigation, engagement, and evaluation of uses of technology in mathematics teacher education. The Committee also recommends policy related to the AMTE website, National Technology Leadership Initiative (NTLI), and other technology issues related to enhancing mathematics teacher education. Specifically, I have been in charge of rewriting and implementing the selection process of the NTLI Fellowship Award winner.

The Mathematics Teacher

2005-2006

Co-editor of Technology Tips Department

"Technology Tips" monthly column, *Mathematics Teacher*, National Council of Teachers of Mathematics Publication. Co-editor, with Shannon Driskell, Assistant Professor of Mathematics Education at University of Dayton.

Association of Mathematics Teacher Educators

2005-2006

Member of the 2006 National Conference Program Committee

I helped to identify potential keynote speakers, review proposals and ensure the success of the 2006 conference in Tampa, FL.

Mathematics Teacher

2004-2005

Co-editor of Technology Tips Department

"Technology Tips" monthly column, *Mathematics Teacher*, National Council of Teachers of Mathematics Publication. Co-editor, with Hollylynne Stohl, Assistant Professor of Mathematics Education at North Carolina State University.

PROFESSIONAL ORGANIZATION MEMBERSHIPS

American Association of University Professors

Association for Mathematics Teacher Educators

National Council of Teachers of Mathematics

Ohio Council of Teachers of Mathematics

Sigma Xi, The Scientific Research Society

Southwest Ohio Council of Teachers of Mathematics

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