

Linda S. Fosnaugh

Education:

Ph.D., Mathematics, University of Nebraska, 1991

M.A., Mathematics, University of Nebraska, 1986

B.A., Mathematics, Centenary College of Louisiana, 1983

Experience:

Associate Professor, Midwestern State University, 1997-present

Assistant Professor, Midwestern State University, 1994-1997

Assistant Professor, Emporia State University, 1991-1994

Graduate Teaching Assistant, University of Nebraska, 1983-1991

Grants and Publications:

University Research Grant, 2004-2005, Mathematical Modeling in the Elementary School Classroom.

Eisenhower Professional Development Grant, 2002-2003, Algebra for Middle School Math Teachers.

Eisenhower Professional Development Grant, 2001-2002, Estimation and Reasonableness in the Middle School Math Classroom.

Eisenhower Professional Development Grant, 2000-2001, Problem Solving for Middle School Math Teachers.

Eisenhower Professional Development Grant, 1999-2000, Algebra for Middle School Math Teachers.

Eisenhower Professional Development Grant, 1998-1999, Mathematical Modeling in the High School Classroom.

MSU Tri-Divisional Grant to fund the Expanding Your Horizons in Mathematics and Science Conference for middle school girls, 1998.

Fosnaugh, Linda and Patrick Mitchell. "Teaching Tricks Can Be Tricky," *Illinois Mathematics Teacher*, Vol 62, No 1, 2014.

Fosnaugh, Linda S, and Patrick Mitchell. "Cards and Codes in the Classroom," *Texas Mathematics Teacher*, Volume LIII Issue 1, Spring, 2006.

Fosnaugh, Linda S., and Marvin E. Harrell. "Pi, Pi and More Pi." *Kansas Science Teacher*. Vol. 14 (2002) 4-6.

Fosnaugh, Linda S., and Marvin E. Harrell. "Mathematical Modeling and Representation: Wrapping it up with Ropes," *PCTM Yearbook* (2001) 13-19.

Fosnaugh, Linda S., and Marvin E. Harrell. "Polyiamonds, Cousins to Pentominoes?" *ComMuniCator*, September, 2001.

Fosnaugh, Linda S., Marvin E. Harrell and Timothy A. Fosnaugh. "When Knottiness is Fitting Behavior." *Mathematics Teacher*. VI. 90 No 1. (1997)23-24.

Fosnaugh, Linda S. and Marvin E. Harrell. "Allium to Zircon: Mathematics and Nature." *Mathematics Teaching in the Middle School*. Vol. 2 No. 6 (1997) 380-389.

Fosnaugh, Linda S. and Earl S. Kramer. "Tilings with the Neighborhood Property." *International Journal of Mathematics and Mathematical Sciences*. Vol. 19 No. 1 (1996) 33-38.

Fosnaugh, Linda S. and Marvin E. Harrell. "Covering the Plane with Rep-Tiles." *Mathematics Teaching in the Middle School*. Vol. 1 No. 8 (1996) 666-670.

Fosnaugh, Linda S. and Marvin E. Harrell. "Mathematics, Nature and Reptiles." *Kansas Science Teacher*, Fall, 1993.

Presentations:

"Engaging Students in the Topic of Ratios, Proportions, and Proportional Reasoning", a workshop for middle school math teachers participating in a Math Collaborative grant through Region IX, June, 2016.

"Ratios, Proportions and Proportional Reasoning", a workshop for middle school math teachers participating in a Math Collaborative grant through Region IX, June, 2015.

"Mathematical Games and Tricks Revealed" at the Region IX Math and Science Conference, June, 2012.

"BMI, Spaghetti and DNA – What does that have to do with probability?" at the Region IX Math and Science Conference, June, 2011.

"Probability and Fair Games", presented at the Tecoma Regional Mathematics and Science Conference, Wichita Falls, TX, June, 2009.

“Conjectures and Game Strategies”, presented at the Texoma Regional Mathematics and Science Conference, Wichita Falls, TX, June, 2008.

“Math and Magic”, presented at the Texoma Regional Mathematics and Science Conference, Wichita Falls, TX, June, 2005.

“Mathemagic,” presented at the Conference for the Advancement of Mathematics Teaching, San Antonio, TX, July, 2004.

“Games, Codes and Classroom Gems,” presented at the Math and Science Regional Conference, Wichita Falls, TX, June, 2003.

“Spaghetti, Probability and the Triangle Inequality,” presented at the Conference for the Advancement of Mathematics Teaching, Dallas, TX, July, 2002.

“Modeling in the Algebra I Classroom,” presented at the Conference for the Advancement of Mathematics Teaching, San Antonio, TX, July, 2001.

“Great Green Globes of Algebra,” presented at the TCTM Spring Conference, Wichita Falls, TX, March, 2001.

“Mirror, Mirror on the Wall: Modeling in the Algebra Classroom,” presented at the NCTM Southern Regional Conference, El Paso, TX, January, 2000.

“Modeling Activities Used in an Eisenhower Grant,” presented at the Conference for the Advancement of Mathematics Teaching, Dallas, TX, July, 1999.

“Knots in a Rope! What’s That Got to do with Algebra? Mathematical Modeling in Algebra,” presented at the NCTM Central Regional Conference, Des Moines, IA, February, 1999.

“Building Special Similar Shapes with Tiles,” presented at the NCTM Southern Regional Conference, Dallas, TX, February, 1999.

“Investigating Linear Trends in the Algebra Classroom,” presented at the NCTM Western Regional Conference, Reno, NV, November, 1998.

“Mathematical Rep-Tiles and other Interesting Tessellating Tiles,” presented at the NCTM National Conference, Minneapolis, MN, April, 1997.

“Texas is HOW Big?” presented at the Texoma Council of Teachers of Mathematics Spring Conference, Wichita Falls, TX, February, 1997.

“Snakes, Diamonds and Tessellations,” presented at the School Science and Math National Conference, Little Rock, AK, November, 1996.

“Fishing Under a Bridge-Anchors Aweigh: Modeling in Algebra,” presented at the NCTM National Conference, San Diego, CA, April, 1996.

“Jigsaw Puzzles and Spatial Sense,” presented at the TCTM Spring Conference, Wichita Falls, TX, March, 1996.

“Tessellations and Rep-Tiles. What do they have in common?” presented at the National Council of Teachers of Mathematics regional conference, Philadelphia, PA, November, 1995.

“A Knotty Little Problem,” presented at the TCTM Spring Conference, Wichita Falls, TX, March, 1995.

“When Knottiness is Fitting Behavior,” presented at the Louisiana Association of Teachers of Mathematics Fall Conference, Baton Rouge, LA, October, 1994.

“Making Mathematics Crystal Clear,” presented at the School Science and Math National Conference, Fresno, CA, October, 1994.

“Where is Rosie’s Bone?” presented at a workshop for the Junior High School Gifted Program, Emporia, KS, April, 1994.

“Tilings in Nature, Science and Mathematics,” presented at the School Science and Math National Conference, Alexandria, LA, October, 1993.

“Tiling the Plane with Blocks,” presented at the Kansas Section Meeting of the Mathematical Association of America, Emporia, KS, March, 1993.

“Jigsaw Geometry,” presented at a workshop for the Junior High School Gifted Program, Emporia, KS, October, 1991.

“Tiling with Rep-Tiles,” presented at the fall KME meeting, Emporia, KS, October, 1991.

“Tiling by Stacks,” presented at the Eastern Section Meeting of the American Mathematical Society, Philadelphia, PA, October, 1991.

“Tiling K -Space with Copies of a Configuration,” presented at the Nebraska-South Dakota Section Meeting of the Mathematical Association of America, Lincoln, NE, April, 1991.

“Tilings with the Neighborhood Property,” presented at the 97th Annual Meeting of the American Mathematical Society and the Mathematical Association of America, San Francisco, CA, January, 1991.

“A Tiling Problem,” presented at the Nebraska-South Dakota Section Meeting of the Mathematical Association of America, Omaha, NE, April, 1990.

Professional and Community Activities:

Participated in a benefit to raise funds for Livestrong, Spring, 2023

Participated in “Pins for Purr-fect Pets” to support Emily’s Legacy Rescue, Spring, 2023

reviewed “Eleven Questions to Ask to Help Teachers Critically Curate their Online Mathematics Video” for Texas Mathematics Teacher Journal, Summer 2023

reviewed the manuscript “Brain Physiology’s Connection to Teaching Algebra” for Ohio Journal of School Mathematics, summer 2023

Participated in “Mustangs Rally”, Fall 2022

Reviewed manuscript “Credit Card Use: The Good, the Bad and the Ugly” for the Illinois Mathematics Teacher.

Participated in a fundraiser for the Livestrong Program, April, 2022.

Participated in D2L trainings dealing with Intelligent Agents, Advanced Content, utilizing rubrics, Advanced Video Editing, Course Templates and Design, Summer, 2022

Participated in the continuing development of College Algebra with a corequisite.

Participated in Sikes Lake Cleanup 2021

Participated in a fundraiser to benefit Base Camp Lindsey, November, 2021

Participated in three webinars over assigning Calculus homework using WebAssign, June, 2020.

Reviewed “Engaging Students with Slime to Teach Volume” for the Illinois Mathematics Teacher, Fall, 2019.

Reviewed “Strategies for STEM Integration in Elementary Classrooms and Beyond” for the Illinois Mathematics Teacher

Reviewed “Discrete Math” by Susanna Epp for Cengage Publishing Company.

Volunteer at Wildbird Rescue

Active in dog rescue efforts in Wichita Falls

Reviewed the manuscript “The Euclidean Algorithm, Finding GCD” for the Illinois Mathematics Teacher, March, 2014.

Attended Spirit Days for Transfer Students, June, 2014.

Reviewed a chapter of the W.H. Freeman manuscript “Mathematical Practice” by Ron Larson.

Reviewed “The Case of the Mystery Pizza: Using Quantities to Promote Algebraic Reasoning” for MSMS, 2010.

Reviewed a College Algebra Manuscript for Brooks/Cole Publishing Co, May, 2010.

Attended Spirit Days, Spring, 2012.

Attended Mustangs Rally, Spring, 2010 and Fall 2011, Spring 2016.

Attended the TORUS Conference, Wichita Falls, TX, February, 2010.

Member of the Committee assigned to write a LOI for a grant offered by the Greater Texas Foundation, Spring, 2008.

Member of the College Readiness Project from the Texas Higher Education Coordinating Board
Chair of the College Algebra Assessment Committee, 2007-2008

Chair of the Assessment Committee for the Academic Program Self Study, Fall, 2007.

College of Science and Mathematics representative on the University’s Major’s Fair Committee, Fall, 2006 and Fall 2011.

Chair of the Math Department Committee to revise the Middle School Math program, Spring, 2007

Member of the Math Education Search Committee, Spring 2006.
Member of the NCATE committee, 2005-present.
Member of the University COPLAC Committee, 2005- 2006.
Math Department representative for the Charitable Campaign, Fall, 2004.
Chair of the Committee to revise mathematics service courses.
Co-Chair of the Math/Science Conference, 2001-2002.
Co-Organizer of Math, Science & U (formerly Expanding Your Horizons in Math and Science), a conference to expose junior high school girls to female role models in math and science related careers, 1998-present
Presented enrichment activities to sixth grade math students at the Episcopal School on a monthly basis, 1994-2001.
Volunteered at Jefferson Elementary School and McGaha Academy on a regular basis, 2000-present.

Organized math learning centers at MSU for fourth and sixth grade students from Crockett Elementary School, 1998-2001.

Organized math learning centers at MSU for sixth grade students from McGaha Academy, 2001-2002.

Organized math labs for fourth grade students from Alamo Elementary School, Spring, 1997.

Gave a workshop for fifth and sixth grade students at Ben Franklin Elementary School, 1996.

Made a presentation on teaching mathematics with manipulatives at the March Phi Delta Kappa meeting, 1998.

Gave a staff development workshop for junior high school math teachers from McNeil, Barwise and Zundy.

Judge math and science entries at the Red River Regional Science Fair, 1995-present.

Selected to participate in “A Team for the Future”, a working conference for the preparation of the Secondary Mathematics Teacher, funded by the Charles A. Dana Center for Mathematics and Science, 1996.

Member of the Episcopal School Field Day Steering Committee, Spring, 2000.

Member of the YMCA Advisory Committee, 2000-present.

Chair of the Young Ages School Board, 2000-2002; vice-chair, 1999-2000.

Reader at McGaha Academy on National Literacy Day, March, 2001.

Reviewer for *Mathematics Teaching in the Middle School*, *Mathematics Teacher*, and *Teaching Children Mathematics*.

Review of the manipulatives sets “Beetles, Moths and Bumblebees” and “Squids and Rays”, *Mathematics Teaching in the Middle School*, December, 1995.

Treasurer of the Texoma Council of Teachers of Mathematics.

Annually attend conferences on teaching mathematics.

University Activities:

University Core Curriculum Committee, Pre-Med Advisory Committee, Who’s Who, Academic Appeals Committee, Faculty Fitness Committee, Library Committee, Rank and Tenure Committee, SACS Institutional Effectiveness Committee, Committee to Rewrite the Mission Statement, Orientation Committee, Major’s Fair Committee, COSM Rank and Tenure Committee, Faculty Grievance Committee, Honorary MSU Football Sideline Coach

Departmental Committees: Co-Requisite Development Committee; Structure of the Number System Textbook Committee Chair; Contemporary Math Assessment Committee, Department Calculus Committee, Master's Program Committee, College Algebra Final Exam Committee, Chair of Calculus Exam Committee, Chair of College Algebra Objectives Committee, Committee for LOI for Greater Texas Grant, Chair of Program Review Assessment Committee, Committee to Review College Readiness Standards, Graduate Program Committee, Textbook Selection Committees, Manipulative Lab Committee, Math Scholarship Selection Committee, Mathematics Brochure Committee, Master Math Teacher Planning Committee, Assessment Committee
Other Departmental Responsibilities: Coordinate TI calculator purchases, Coordinate math placement tests, Chair of Committee to Review and Revise the Math Proficiency Tests

Professional Society Memberships:

National Council of Teachers of Mathematics
TACT
Kappa Mu Epsilon
Pi Mu Epsilon
Alpha Chi