

Marvin E. Harrell

2400 West View Terrace

Emporia, KS 66801

Home: 620.341.9728

Work: 620.341.5640

Education

Ph.D. (C & I - Mathematics Education), University of Missouri - Kansas City, May 1993.

M.S. (Mathematics), Emporia State University, August 1987.

B.S.E. (Mathematics), Emporia State University, December 1985.

Academic Positions

Fall 2003 - present: **Professor**, Dept. of Mathematics, Computer Science & Economics, Emporia State University

- Courses Taught: Elementary Mathematics I & II, Geometry for the Elementary/Middle School Teacher, Introduction to Probability and Statistics, History of Mathematics, Geometry for Teacher, and Integrating Mathematics and the Sciences
- Prepared Middle School NCATE documents and assisted with Program Review
- Supervise Student Teachers when needed
- Advise mathematics students majoring in secondary education
- President of the Faculty
- Committee Work: Student Rating Form, Undergraduate Curriculum Committee, Faculty Recognition Committee, Bonner and Bonner Scholarship Committee, Student Observation Instrument Committee, Academic Appeals Committee, Vice President for Academic Affairs Advisory Committee, and Assessment Taskforce

Fall 1998 - present: **Associate Professor**, Dept. of Mathematics, Computer Science & Economics Emporia State University

- Courses Taught: Arithmetic Skills, College Algebra, Elementary Mathematics I & II, Algebra for the Elementary/Middle School Teacher, Geometry for the Elementary/Middle School Teacher, Introduction to Probability and Statistics, The History of Mathematics, Basic Calculus, and Foundations of Elementary/Middle School Mathematics and Lab
- Oversaw the development and implementation of the Brighton Mathematics Learning Center
- Supervise Student Teachers when needed
- Advise mathematics students majoring in secondary education
- Faculty advisor for Teachers of Tomorrow
- Committee Work: Student Placement Committee (Chair), Student Rating Form Committee, Faculty Recognition Committee, and Faculty Recruitment Committee

Fall 1993 – Spring 1998: **Assistant Professor**, Dept. of Mathematics & Computer Science, Emporia State University

- Responsibilities are as noted above
- Wrote goals for Middle School Mathematics Certification Program which resulted in accreditation by NCATE and Kansas State Department of Education
- Revised goals for the Secondary Mathematics Certification Program which received NCATE and Kansas State Department of Education accreditation
- Participated in NSF funded teacher exchange program
- Faculty advisor for Teachers of Tomorrow and SPURS

Fall 1990 – Spring 1993: **Instructor**, Dept. of Mathematics & Computer Science, Emporia State University

- Courses taught are as noted above

Fall 1987 - Spring 1990: **Instructor**, Dept. of Mathematics & Computer Science, Central Missouri State University

- Courses Taught: Intermediate Algebra, College Algebra, College Trigonometry, Calculus for Business and Economics, Pre-calculus Mathematics, and Concepts and Methods in Elementary Mathematics I

Administrative Experience

Fall 2002 - Summer 2003: **Director of the Brighton Mathematics Learning Center**, Emporia State University

- Responsibilities: Oversee the remodeling/construction of the Center. Select appropriate instructional software for Beginning, Intermediate and College Algebra. Supervise the teaching staff and technician in the center. Create and distribute common exams.

Fall 1994 - Summer 2000: **Director of the Science & Mathematics Education Center**, Emporia State University

- Responsibilities: Supervise the Center's staff, maintain & update Center's holdings, serve as editor of the *Kansas Science Teacher* and *Lab Notes and Math Musings*, coordinate activities as related to K-12 education with The Teachers College, the Division of Mathematics and Computer Science, the Division of Biology, and the Division of Physical Sciences

Publications

Harrell, M. & Slavens, D. (2006) *Investigating Horizontal Asymptotes and the Graphs of Rational Functions Investigating*. *Ohio Journal of School Mathematics*, 52(Autumn), 64-70.

Harrell, M. & Slavens, D. (2004) *Investigating Vertical Asymptotes and the Graphs of Rational Functions*. *Ohio Journal of School Mathematics*, 50(Autumn), 64-70.

Harrell, M., Smith, N. & Thompon, K. (2004). Current Practices of Kansas K-8 Teachers of Mathematics and Science. *Kansas Science Teacher*, 15, 12-20.

Fosnaugh, L. & Harrell, M. (2002). Pi, pi and more pi. *Kansas Science Teacher*, 14(1), 4-6.

Harrell, M. & Fosnaugh, L. (2002). Mathematical modeling and representation: Wrapping it up with ropes. In M. Kathleen. Heid, G. Blume, & M. Smith (Eds.), *The Role of Representation in the Teaching and Learning of Mathematics*. Pennsylvania Council of Teachers of Mathematics.

Fosnaugh, L. & Harrell, M. (2001). Polyiamonds, cousins to pentominoes? *ComMuniCator*, September issue.

Harrell, M. & Thompson, K. and Davidson, M. (2000). Take the plunge and make a splash!: Using displacement to teach volume. *Connect*, 13 (3), 14-17.

Fosnaugh, L., Harrell, M., & Fosnaugh, T. (1997). When knottiness is fitting behavior. *Mathematics Teacher*, 90(1), 23-24.

Harrell, M. & Fosnaugh, L. (1997). From allium to zircon: Mathematics and nature. *Mathematics Teaching in the Middle School*, 2(6), 380-389.

Harrell, M. & Thompson, K. (1997). Half-life, bone lengths, Euler's formula, and constructivism: Ways to integrate mathematics and science, *Missouri Journal of Mathematical Science*, 9 (3), 160-166.

Thompson, K. & Harrell, M. (1997). Geometry and moon phases. *Science Scope*, 21(2), 35-37.

Fosnaugh, L. & Harrell, M. (1996). Covering the plane with rep-tiles. *Mathematics Teaching in the Middle School*, 1(8), 666-670.

Fosnaugh, L. & Harrell, M. (1993). Mathematics, nature, and reptiles. *The Kansas Science Teacher*, 10(1), 21-25.

So, S. & Harrell, M. (1992). Relationships between area, perimeter, and volume. In M. K. Heid, & G. W. Blume (Eds.), *New Standards for Teaching Mathematics*. (pp. 24-27). Pennsylvania Council of Teachers of Mathematics.

Presentations

National Presentations

Harrell, M. & Yanik, E. *Mathematics-The Queen of the Sciences*. National Council of Teachers of Mathematics. April 2006, St. Louis, MO.

Harrell, M. & Yanik, E. *Hands-on Activities to Encourage Young Women in Mathematics*. National Council of Teachers of Mathematics. April 2005, Anaheim, CA.

Smith, N. & Harrell, M. *Basic Fact Mastery with Motivation and Meaning for All Learners*. National Council of Teachers of Mathematics. April 2005, Anaheim, CA.

Smith, N., Harrell, M., Howald, C. & Kallam, L. *Designing Effective Online Mathematics Instruction and Assessment*. The Association of Mathematics Teacher Educators Annual Conference. January 2005, Dallas, TX.

Smith, N. & Harrell, M. *A Collaborative Redesign of Mathematics and Methods Courses for Preservice Elementary Teachers*. The Association of Mathematics Teacher Educators Annual Conference. January 2004, San Diego, CA.

Harrell, M. *Making Mathematics Meaningful with Children's Literature*. National Council of Teachers of Mathematics Annual National Conference. April 2003, San Antonio, TX.

Harrell, M. *Using Children's Literature to Provide Real-life Contexts for Teaching Mathematics*. National Council of Teachers of Mathematics Annual Meeting. April 2002, Las Vegas, NV.

Harrell, M. & Smith, N. *Children's Literature and the Process Standards*. National Council of Teachers of Mathematics Annual Meeting. April 2001, Orlando, FL.

Harrell M. *Special Programs for Young Women in Mathematics and Science*. National Council of Supervisors of Mathematics Annual Meeting. April 2001, Orlando, FL.

Thompson, K. & Harrell, M. *Linking Science and Mathematics: A Geometric Approach*. National Science Teachers Association National Convention. March 1999, Boston, MA.

Harrell, M. *A Collaborative Redesign of Mathematics and Mathematics Methods Classes for Preservice Elementary School Teachers*. National Council of Supervisors of Mathematics. April 1999, San Francisco, CA.

Harrell, M. *A Collaborative Redesign of Mathematics and Mathematics Methods Classes for Preservice Elementary School Teachers*. National Council of Teachers of Mathematics. April 1999, San Francisco, CA.

Harrell, M., Bowling, T., et al. *Developing a Practical Assessment Plan*. National Council of Teacher's of Mathematics' 76th Annual Meeting. April 1998, Washington D.C.

Harrell, M. & Fosnaugh, L. *Mathematical Rep-tiles and Other Tessellating Tiles*. National Council of Teacher's of Mathematics' 75th Annual Meeting. April 1997, Minneapolis-Saint Paul, MI.

Harrell, M. & Fosnaugh, L. *Fishing Under the Bridge-Anchors Away: Mathematical Modeling in Algebra*. National Council of Teacher's of Mathematics' 74th Annual Meeting. April 1996, San Diego, CA.

Harrell, M. *Snake Skins, Dragonfly Eyes, and Honeycomb: Nature's Own Tessellations*. National Council of Teacher's of Mathematics' 73rd Annual Meeting. April 1995, Boston, MA.

Harrell, M. & Fosnaugh, L. *Making Mathematics Crystal Clear: Nature and Geometry*: School Science and Mathematics Association's Annual Meeting. October 1994, Fresno, CA.

Harrell, M. & Fosnaugh, L. *Tiling in Nature, Science, and Mathematics*. School Science and Mathematics Association's Annual Meeting. October 1993, Alexandria, LA.

Regional Presentations

Harrell, M. & Thompson, K. *Science and Mathematics Connections*. National Science Teachers Association. South/Midwestern Regional Meeting. November 2003, Kansas City, KS.

Harrell, M. & Harrell T. *Children's Literature: A Context for Learning Mathematics*. National Council of Teachers of Mathematics Western Regional Conference. August 2001, Laramie, WY.

Yanik, E. & Harrell, M. *Special Programs in Mathematics and Science for Middle School Young Women*. National Council of Teachers of Mathematics' Regional Meeting. October 2000, Omaha, NE.

Thompson, K. & Harrell, M. *Connecting Science and Mathematics Using a Geometric Approach*. National Science Teachers Association Regional Conference. November 1999, Tulsa, OK.

Harrell, T. & Harrell, M. *Connecting Children's Literature to Mathematics*. National Council of Teachers of Mathematics Regional Conference. November 1999, Topeka, KS.

Harrell, M. & Thompson, K. *Take the Plunge and Make a Splash: Teaching Volume Using Water Displacement*. National Council of Teachers of Mathematics Regional Conference. November 1999, Topeka, KS.

Harrell M. *Knots on a Rope? What's That Got to Do with Algebra? Mathematical Modeling in Algebra*. National Council of Teachers of Mathematics. February 1999, Des Moines, IA

Harrell, M. & Fosnaugh, L. *Investigating Linear Trends in Algebra with Ropes, Blocks, and Circular Objects*. National Council of Teachers of Mathematics Regional Conference. November 1998, Reno, NV.

Thompson, K. & Harrell, M. *Linking Science and Mathematics: A Geometric Approach*. National Science Teachers Association Regional Convention. October 1998, Seattle, WA.

Harrell, M. *Mathematical Rep-tiles and Other Tessellating Tiles*. National Council of Teacher's of Mathematics' Regional Meeting. January 1998, St. Louis, MO.

Harrell, M. & Thompson, K. *Science and Mathematics: A Natural Combination*. National Science Teachers Association Regional Convention. December 1997, Nashville, TN.

Harrell, M. *Mathematical Rep-tiles and Other Tessellating Tiles*. National Council of Teacher's of Mathematics' Regional Meeting. October 1997, Milwaukee, WI.

Harrell, M. & Thompson, K. *Astronomy to Zoology: Integrating Mathematics and Science*. National Council of Teacher's of Mathematics' Regional Meeting. November 1996, Albuquerque, NM.

Harrell, M. & Thompson, K. *Dragonfly Eyes, Density, and Gems*. National Council of Teacher's of Mathematics' Regional Meeting. October 1996, Kansas City, MO.

Harrell, M. & Thompson, K. *Integrating Mathematics and Science in the Middle School*. National Science Teachers Association Regional Convention. December 1995, San Antonio, TX.

Harrell, M. & Fosnaugh, L. *Snakes and Tessellations: The World of Reptiles*. National Council of Teacher's of Mathematics' Regional Meeting. November 1995, Philadelphia, PA.

Harrell, M. *Tessellations and Reptiles: What Do They Have in Common?* National Council Of Teacher's of Mathematics' Regional Meeting. October 1995, Springfield, MO.

State/Local Presentations

Harrell, M. & Yanik, E. *Encouraging Young Women in Mathematics and Science*. The Mathematical Association of America-Texas Section. April 2006, Wichita Falls, TX. Invited Talk.

Harrell, M. *Encouraging Young Women in Mathematics and the Sciences*. Kansas State University's Sigma Xi Induction Ceremony. April 2004, Topeka, KS. Invited Talk.

Yanik, B. & Harrell, M. *Expanding Your Horizons*. Kansas NSF EPSCoR Conference. September 2004, Lawrence, KS.

Smith, N. & Harrell, M. *Using Math Games to Teach Number and Operation*. Kansas Association of Teachers of Mathematics. Annual Conference. November 2004, Topeka, KS.

Harrell, M. & Yanik, B. *Encouraging Young Women in Mathematics and the Sciences*. Kansas Association of Teachers of Mathematics. Annual Conference. November 2004, Topeka, KS.

Harrell, M. & Smith N. *Making Geometry and Measurement Come Alive in Grades K-5 with Children's Literature*. Kansas Association of Teachers of Mathematics Annual Conference. October 2002, Pittsburg, KS.

Harrell, M. & Smith N. *Preparing for the Future: Integrating Technology into Teacher Education*. Kansas Association of Teachers of Mathematics Annual Conference. October 2001, Wichita, KS.

Harrell, M. *Mathematical Modeling in the Middle Grades*. Midwestern State University. April 2001, Wichita Falls, TX. Invited Talk.

Smith, N. & Harrell, M. *Children's Literature: What's Math Got to Do With?* Kansas Reading Association Annual Meeting. April 2001, Emporia, KS. Invited Talk/Workshop.

Harrell, M. *The Effects of Teaching Self-questioning Skills and Using Activity -based Instruction to Improve Mathematics Instruction*. University of North Texas. March 2001, Denton, TX. Invited Talk.

Harrell, M. & Yanik, B. *MASTER IT - An NSF Funded Project for Middle School Young Women*. Kansas Section of the Mathematical Association of America Annual Meeting. March 2001, Emporia, KS.

Harrell, M. *Science: The Natural Applications of Mathematics*. Kansas City, Kansas Public Schools, USD 500 Teacher Inservice. March 2001, Kansas City, KS.

Harrell, M. & Landis, L. *Problem-solving in the Mathematics and Science Classroom*. Teacher Inservice, February 2000, Lebo, KS.

Harrell, M. *Mathematics and Children's Literature*. Kansas Reading Association Meeting. February 2000, Emporia, KS.

Harrell, M. *The Redesign of a Mathematics Course for Preservice Elementary Teachers*. Project NOVA Conference. May 1998, Emporia, KS.

Harrell, M., Smith, N., & Thompson, K. *A 1996 Survey of Instructional Practices of Kansas K-8 Teachers of Mathematics and Science*. Faculty Research Forum. April 1998, Emporia, KS.

Harrell, M. *The Geometry of Nature*. Good Morning Discussion. February 1998, Emporia, KS.

Harrell, M. *Using Base-ten Blocks to Teach Addition, Subtraction, Multiplication, and Division Algorithms to Elementary Students*. Jones Institute Workshop. October 1998, Emporia, KS.

Harrell, M. & Thompson, K. *The Natural Connection: Mathematics and Science*. S.M.A.R.T.T. Conference. November 1997, Wichita, KS.

Harrell, M., Smith, N., & Thompson, K. *A 1996 Survey of Instructional Practices of Kansas K-8 Teachers of Mathematics and Science*. S.M.A.R.T.T. Conference. November 1997, Wichita, KS.

Harrell, M. *Mini-grants*. Professional Partnership for Assessment Conference. October 1997, Burlington, KS.

Bowling T. & Harrell, M. *Balancing Assessment: "Something Old, Some Things New."* Professional Partnership for Assessment Conference. October 1997, Burlington, KS.

Harrell, M. *Mathematical Modeling in Algebra*. Kaw Valley Regional Inservice. October 1996, Lawrence, KS.

Harrell, M. & Yanik, E. *Encouraging Young Women to Excel in Mathematics*. Mathematical Association of America Kansas Section Conference. April 1996, McPherson, KS.

Harrell, M. *An Example of Mathematical Modeling in an Algebra I Class*. ESU Division of Mathematics and Computer Science Seminar. November 1995, Emporia, KS.

Harrell, M. & Hart, S. *Mathematical Rep-Tiles*. Emporia State University's NSF Teacher Enhancement Workshop. June 1995, Emporia, KS.

Fosnaugh, L. & Harrell, M. *When Knottiness is Fitting Behavior*: Louisiana Association of Teachers of Mathematics Conference. October 1994, Baton Rouge, LA.

Harrell, M. *Constructivism and Mathematics Education*. ESU Division of Mathematics and Computer Science Seminar. April 1994, Emporia, KS.

Harrell, M. *Using Manipulatives in the Intermediate Grades*. Inservice for Meadowbrook Elementary School. March 1990, Lee's Summit, MO.

Harrell, M. *The Rigid Polygon*. K-6 Science and Mathematics (KSAM) Spring Conference. January 1990, Warrensburg, MO.

Grant Involvement

Grants Received

Harrell, M. & Yanik, E. (2006) *EYH & MASTER-IT*, Kansas NSF EPSCoR Subgrant-Supplemental Funding. Amount Awarded: \$16,323. Co-Director

Harrell, M. & Yanik, E. (2004) *Sonia Kovalevsky Mathematics Day*. Wolf Creek Nuclear Operating Corporation. Amount funded: \$1,600.00. Co-Director

Harrell, M. & Yanik, E. (2003) *Sonia Kovalevsky Mathematics Day*. Wolf Creek Nuclear Operating Corporation. Amount funded: \$1,600.00. Co-Director

Harrell, M. & Yanik, E. (2002) *MASTER-IT*, Kansas NSF EPSCoR Subgrant. Amount Awarded: \$30,000. Co-Director

Harrell, M. & Yanik, E. (2002) *Expanding Your Horizons in Science and Mathematics*, Kansas NSF EPSCoR Subgrant. Amount Awarded: \$15,000. Co-Director

Yanik, E. and Harrell, M. (2002) *MASTER IT: Mathematics and Science To Explore caReers- Investigating Together*, Mathematical Association of America and the Tensor Foundation. Amount Awarded: \$ 4,941. Program Co-Director

Harrell, M. & Yanik, E. (2002) *Sonia Kovalevsky Mathematics Day*. Wolf Creek Nuclear Operating Corporation. Amount funded: \$1,600.00. Co-Director

Harrell, M. (2001). *Certification Program for in Middle School Mathematics Teacher*, NSF-Subcontract with Kansas City, Kansas Public Schools USD 500. Amount funded, \$150,006. Program Director.

Yanik, K. and Harrell, M. (2001) *Expanding Your Horizons in Mathematics and Science*. NSF Kansas EPSCoR Subgrant. Amount funded: \$5,000. Co-Director

Harrell, M. & Yanik, E. (2001) *Sonia Kovalevsky Mathematics Day*. Wolf Creek Nuclear Operating Corporation. Amount funded: \$1,600.00. Co-Director.

Harrell, M., Scott, L. & Yanik, E. (2000) *Using Inquiry-based Instruction and Technology to Teach Middle School Mathematics*. Eisenhower Professional Development Program, 2000 Funds. Amount funded: \$31,334 Co-Director.

Harrell, M. & Smith, N. (2001) *InTime Technology Grant*. Part of ESU's Subcontract with University of Northern Iowa's PT³ grant from the US Department of Education. Amount funded: \$5000. Participant.

Yanik, E. & Harrell, M. (2000) *MASTER-IT Dissemination Activities*. National Science Foundation-Supplementary Funding. Amount funded: \$5,250.

Bowling, T. & Harrell, M. (2000) *Professional Partnerships for Assessment: Year 6* Kansas Goals 2000 Preservice Teacher Education and Professional Development Subgrant, 2000-2001. Amount funded: \$25,000.00. Co-Director.

Harrell, M. & Yanik, B. (1999) *MASTER IT: Mathematics And Science To Explore caReers- Investigating Together*. National Science Foundation. Amount funded: \$97,687. Co-Director.

Harrell, M. & Yanik, E. (1999) *Implementing Graphing Calculators into Middle School Math and Science*. Eisenhower Professional Development Program, 1999 Funds. Amount funded: \$28,002 Co-Director.

Bowling, T. & Harrell, M. (1999) *Professional Partnerships for Assessment: Year 5*. Kansas Goals 2000 Preservice Teacher Education and Professional Development Subgrant, 1999-2000. Amount funded: \$25,000.00. Co-Director.

Yanik, E. & Harrell, M. (1999) *SMASH: Summer Mathematics and Science Holiday*. Mathematical Association of American and the Tensor Foundation. Amount funded: approximately \$4,500.00.

Backhus, D. & Harrell, M. (1998) *Graphing Calculator Instructional Technologies Workshop for Mathematics and Physics/Physical Sciences Teachers*. Eisenhower Professional Development Program, 1998 Funds. Amount funded: approximately \$54,000 Co-Director.

Bowling, T. & Harrell, M. (1998) *Professional Partnerships for Assessment: Year 4*. Kansas Goals 2000 Preservice Teacher Education and Professional Development Subgrant, 1998-1999. Amount funded: \$25,000.00. Co-Director.

Harrell, M. & Yanik, E. (1998) *Sonia Kovalevsky Mathematics Day*. Wolf Creek Nuclear Operating Corporation. Amount funded: approximately \$1,500.00. Co-Director.

Black, L., Harrell, M., Swanson, R., & Yanik, E. (1997) *Expanding Your Horizons*. First Bank Kansas Community Grant. Amount funded: \$1,700.00. Co-coordinator.

Bowling, T. & Harrell, M. (1997) *Professional Partnerships for Assessment: Year 3*. Kansas Goals 2000 Preservice Teacher Education and Professional Development Subgrant, 1997-1998. Amount funded: \$25,000.00. Co-Director.

Harrell, M. (1997) *ESU's SMEC's Mathematics and Science Teacher Resources Materials Request*. Marshall Trust. Amount funded: \$1,222.00.

Harrell, M. & Yanik, E. (1997) *Sonia Kovalevsky Day*. Wolf Creek Nuclear Operating Corporation. Amount funded: approximately \$1,600.00. Co-Project Administrator

Yanik, E. & Harrell, M. (1997) *A Planning Proposal for a Statewide Mentoring Program*. The Mathematical Association of America. Amount funded: \$3,200.00. Co-Director.

Backhus, D. & Harrell, M. (1996) *Graphing Calculators/Calculator-Based Laboratory Workshop for High School Mathematics and Physics/Physical Sciences Teachers*. Eisenhower Professional Development Program, 1996 Funds. Amount funded: \$44,506. Associate Director.

Bowling, T. & Harrell, M. (1996) *Professional Partnerships for Assessment: Year 2*. Kansas Goals 2000 Preservice Teacher Education and Professional Development Subgrant, 1996-1997. Amount funded: \$25,000.00. Co-Director.

Harrell, M. & Smith, N. (1996) *Project MathMATES: Mathematics and Meaningful Activities for Teachers of Exceptional Students*. Eisenhower Professional Development Program, 1996 Funds. Amount funded: \$30,379. Co-Director

Harrell, M., Smith, N., & Thompson, K. (1996) *Instructional Practices of Kansas K-8 Teachers of Mathematics and Science: 1996 Status Report*. ESU Faculty Research and Creativity Grant. Amount funded: \$3,617.38. Co-Director

Harrell, M. & Yanik, E. (1996) *Sonia Kovalevsky Day*. Wolf Creek Nuclear Operating Corporation. Amount funded: approximately \$1,500.00. Co-Project Administrator.

Harrell, M. & Yanik, E. (1995) *Sonia Kovalevsky Day*. Association of Women in Mathematics. Amount funded: approximately \$1,800.00. Co-Project Administrator.

Fosnaugh, L. & Harrell, M. (1994) *Sonia Kovalevsky Day*. Association of Women in Mathematics. Amount funded: \$3,946.00. Co-Project Administrator.

Harrell, M. (1994) *Project IMS²: Integrating Mathematics and Science in Middle Schools*. Dwight D. Eisenhower Mathematics and Science Education Act, 1994 Funds. Amount funded: \$53,481.00. Project Director.

Harrell, M. (1994) *Curriculum Development Grant*. ESU Academic Vice President's Office. Summer of 1994. Amount awarded: \$1,000.00.

Other Grant Consultation and Directorships

Saunders D. et al (2003) Center for Innovation Grant to work with area middle school mathematics and science teachers. Amount awarded: \$5,000. Helped in editing the proposal and am a participating faculty member.

Yanik, H. & Pheatt, C. (1999) *Mathematical Activities Using JavaBeans*. National Science Foundation. Amount funded \$165,648. Assessment Consultant.

Backhus, D., Irwin, S. & Harrell, M., et al . (1996) *Emporia Project NOVA*. NASA-funded Project, Amount funded \$30,000. Wrote Assessment Plan and Evaluation Instruments.

Abel, G. (1996) *EMPORIA Project*. Kansas Goals 2000 Preservice Teacher Education and Professional Development Subgrant, 1996-1997. Amount funded: \$25,000.00. Associate Director.

Abel, G. (1995) *EMPORIA Project*. Kansas Goals 2000 Preservice Teacher Education and Professional Development Subgrant, 1995-1996. Amount funded: \$20,000.00. Co-Directors: Marvin Harrell, Frank Leone, and Larry Lyman.

Fabert, B. (1995) *Professional Partnerships for Assessment*. Kansas Goals 2000 Preservice Teacher Education and Professional Development Subgrant, 1995-1996. Amount funded: \$19,986.75. Associate Director.

Proposal Development - NOT Funded

Yanik, E. & Harrell, M. (2004) *Women Count*, National Science Foundation.

Harrell, M., Schrock, C., & Smith, N. (2000). *Improving Math Subject-Matter Preparation of Elementary School Teachers*. American Association of State Colleges and Universities.

Yanik, E. & Harrell, M. (1997) *Women Professionals Mentoring High School Senior Women*. The Mathematical Association of America.

Yanik, E. & Harrell, M. (1996) *Encouraging Young Women into Mathematics*. K*STAR Proposal.

Yanik, E. & Harrell, M. (1996) *KMSEC and Expanding Your Horizons*. Kansas Mathematics and Science Education Coalition.

Smith, N. & Harrell, M. (1995) *M³: Meaningful Mathematics with Manipulatives*. Eisenhower Professional Development Program, 1995 Funds.

J. Yanik et al. (1995) FPISE Proposal Submitted Involving Interdisciplinary Studies With Mathematics and Science.

Editor/Referee

Editor of the *Kansas Science Teacher* from 1994-1998. Published annually.

Editor of *Lab Notes and Math Musings* from 1994-2000, the Science and Mathematics Education Center's Newsletter. Published twice a year.

Referee for two national journals, *Mathematics Teaching in the Middle School* and *Teaching Children Mathematics*. On average, I review 1-2 articles per year.

PROFESSIONALLY RELATED SERVICE

NCA Team for Osage City Middle and High Schools (Mathematics Specialist)

Wolf Creek Nuclear Operating Corporation's Elementary School Science Equipment Grant Review Panel

Member of the 2003 & 2004 Presidential Awards for Math and Science Teaching Selection Committee

Science fair judging for local elementary schools, average 1-2 schools per year.

Served as a faculty mentor for the minority mentoring program at Emporia State University.

Worked with local elementary/middle school students who want to learn more about mathematics through math clubs.

Conducted workshops for the Flint Hills Special Education Cooperative's R.E.L. Program.

Coordinator for local activities related to Mathematics Awareness Week and Mathematics Education Month.

Co-coordinated the Kansas MAA (Mathematical Association of America) Sectional Spring Conference, March, 1993.

Served as an ESU representative on the Board of Directors of The Flint Hills Children's Museum Without Walls from 1996-2000.

PROFESSIONAL AFFILIATIONS

Kansas Association of Teachers of Mathematics

Kansas Association of Teachers of Science (Board of Directors, 1998-2001)

National Council of Teachers of Mathematics

National Council of Mathematics Supervisors

Association of Mathematics Teacher Educators

Phi Kappa Phi