

CURRICULUM VITAE
Deborah Ann McAllister

August 2011

The University of Tennessee at Chattanooga
615 McCallie Avenue, Teacher Preparation Academy, Dept. 4154
Chattanooga, TN 37403
(423) 425-5376

Professional Employment Experience:

- 1993- The University of Tennessee at Chattanooga, College of Health, Education, and Professional Studies, Teacher Preparation Academy. Assignment: UC Foundation Professor for Mathematics Education. Courses: Educational Technology, Technology and Learning, Teaching Strategies and Materials in Secondary and Middle Grades Mathematics, Teaching Mathematics in the Elementary School, Culminating Experience, Professional Teaching Experience, Teaching Strategies and Materials in Science, Teaching Science in Elementary and Middle School, Teaching Social Studies in the Elementary and Middle School, Science Concepts and Perspectives, Laboratory Procedures and Safety, and Education in the United States. Technology Coordinator, 21st Century Classroom, 1994-2001.
- 1992-1993 University of South Dakota, Vermillion, SD, School of Education, Division of Curriculum and Instruction. Assignment: Instructor for Mathematics Education, term appointment. Courses: Methods, Materials and Content in Mathematics; Teaching and Supervision of Mathematics in the Elementary School (graduate); Microcomputers in Education; and student teaching supervision at the elementary, middle school, and high school levels.
- 1983-1992 Maur Hill Prep School, Atchison, KS. Assignment: Teacher for Advanced Computer Programming in Pascal, Computer Programming in BASIC, Computer Literacy, EFL Computer Literacy, Algebra II and Trigonometry, Algebra I, Basic Mathematics, Geometry, and Chemistry; Computer programming team sponsor, Computer club sponsor; Stock Market Game sponsor; Junior class sponsor.
- 1981-1983 Royal Valley High School, Hoyt, KS. Assignment: Teacher for Algebra II and Trigonometry, Basic Mathematics, Chemistry, and Physics; Senior class sponsor.
- 1981 U.S.D. 497, Lawrence, KS. Assignment: Substitute and Homebound teacher.
- 1979-1980 Framingham North High School, Framingham, MA. Assignment: Teacher for Earth Science.
- 1979 Deerfield Academy, Deerfield, MA. Assignment: Student teacher for Biology, Human Physiology Lab, and Unified Science II.

Tennessee teaching certificate for grades 7-12 Biology and Mathematics.

Kansas teaching certificate for grades 7-12 Biology, Botany, Chemistry, Computer Studies, Data Processing, Earth-Space Science, General Science, Mathematics, Psychology, and Zoology (expired).

Massachusetts teaching certificate for Secondary Biology, Chemistry, Earth Science, and General Science (expired).

Education:

- 1994 Ed.D., Curriculum and Instruction/Educational Technology, University of Kansas, Lawrence, KS. Dissertation: Individual Specialist Versus Group Preparation for a Computer Programming Contest Involving Secondary Students. Cumulative average: 3.73/4.0 (4.0 in doctoral program).
- 1987 M.S.Ed., Educational Psychology and Research, University of Kansas, Lawrence, KS. Thesis: The Use of Microcomputers in Secondary Physics. Cumulative average: 3.56/4.0.
- 1979 B.S., cum laude, Zoology, University of Massachusetts, Amherst, MA. Cumulative average: 3.21/4.0.
- 1975 Graduation with honors, Framingham North High School, Framingham, MA. Rank in class: 22/598.

Additional Education:

- 2011 NASA ePDN/Georgia Tech. Technology Integration: Engage and Educate - Podcasts in the Classroom; Advanced Podcasts – Vodcasts.
- 2011 NASA ePDN/Georgia Tech. Using Robotics to Enhance STEM Learning: Getting Started in Robotics, Manipulators and End Effectors, Advanced Programming and Sensors, Grand Challenge (certificate program).
- 1996 The University of Tennessee at Chattanooga.
- 1985, 1982 Kansas State University, Manhattan, KS.
- 1979-1980 Framingham State College, Framingham, MA.

Professional Memberships:

Association for Educational Communications and Technology (AECT), 1990-2003
Director-elect, Southeastern Regional Media Leadership Council (SRMLC), 1997-1999
Conference program planning team, 1998-2000
Alabama Council of Teachers of Mathematics, 2003-2008
Chattanooga Area Mathematics Teachers Association, 2004-, VP for Higher Education, 2009-
Georgia Council of Teachers of Mathematics, 2005-
Kansas Alumni Association, 1994-
Mathematical Association of America, 2004-2006
NASA Opportunities for Visionary Academics (NOVA), 1999-2006
Leadership Development Conference planning team, for 2003 LDC
National Council of Teachers of Mathematics (NCTM), 1993-
National Science Teachers Association (NSTA), 1994-
Phi Delta Kappa, 1992-2008
Tennessee Mathematics' Teachers Association, 2004-
Tennessee Space Grant Consortium, UTC representative, 2002-
The University of Tennessee at Chattanooga, Alpha Society, 2007-
University of Massachusetts Amherst Alumni Association, 1997-
Who's Who in American Education 1992-1993, 1994-1995, 1996-1997
Who's Who in Science and Engineering 1998-1999
Who's Who in the South and Southwest 1999-2000

Publications:

McAllister, D. A., & Cutcher, C. L. (Eds.). (2011). *Culminating experience action research projects, volume 17, fall 2010*. (ERIC Document Reproduction Service No. ED518907)
McAllister, D. A., & Cutcher, C. L. (Eds.). (2011). *Culminating experience action research projects, volume 16, part 1, spring 2010*. (ERIC Document Reproduction Service No. ED518906)
McAllister, D. A., & Cutcher, C. L. (Eds.). (2011). *Culminating experience action research projects, volume 15, part 1, fall 2009*. (ERIC Document Reproduction Service No. ED518899)
McAllister, D. A., & Cutcher, C. L. (Eds.). (2010). *Culminating experience action research projects, volume 14, spring 2009*. (ERIC Document Reproduction Service No. ED511724)
McAllister, D. A., & Cutcher, C. L. (Eds.). (2010). *Culminating experience action research projects, volume 13, fall 2008*. (ERIC Document Reproduction Service No. ED511591)
McAllister, D. A., McDonald, S. A., & Bothman, S. M. (2010). *Meeting mathematics standards with a deck of playing cards*. (ERIC Document Reproduction Service No. ED508592)
McAllister, D. A., & Ezell, B. T. (Eds.). (2010). *Culminating experience action research projects, volume 9, fall 2006*. (ERIC Document Reproduction Service No. ED508585)
McAllister, D. A., & Deaver, S. R. (Eds.). (2008). *Culminating experience action research projects, volume 12, spring 2008*. (ERIC Document Reproduction Service No. ED502348)
McAllister, D. A., & Deaver, S. R. (Eds.). (2008). *Culminating experience action research projects, volume 11, fall 2007*. (ERIC Document Reproduction Service No. ED502670)
McAllister, D. A., & Deaver, S. R. (Eds.). (2008). *Culminating experience action research projects, volume 10, spring 2007*. (ERIC Document Reproduction Service No. ED500752)
McAllister, D. A., & Fritch, S. C. (Eds.). (2007). *Culminating experience action research projects, volume 8, part 1, spring 2006*. (ERIC Document Reproduction Service No. ED495484)
McAllister, D. A., & Fritch, S. C. (Eds.). (2007). *Culminating experience action research projects, volume 7, fall 2005*. (ERIC Document Reproduction Service No. ED495261)
McAllister, D. A., & Bothman, S. M. (Eds.). (2005). *Culminating experience action research projects, volume 6, fall 2004*. (ERIC Document Reproduction Service No. ED490689)
McAllister, D. A., & Bothman, S. M. (Eds.). (2005). *Culminating experience action research projects, volume 5, spring 2004*. (ERIC Document Reproduction Service No. ED490030)
McAllister, D. A., & Bothman, S. M. (Eds.). (2005). *Culminating experience action research projects, volume 4, fall 2003*. (ERIC Document Reproduction Service No. ED490668)
McAllister, D. A., Moyer, P. S., & Bothman, S. M. (Eds.). (2005). *Culminating experience action research projects, volume 1, spring 2002*. (ERIC Document Reproduction Service No. ED490720)
Watson, S., Miller, T. L., Driver, J., Rutledge, V., & McAllister, D. (2005). English language learner representation in teacher education textbooks: A null curriculum? *Education*, 126(1), 148-157.
Sunal, D. W., MacKinnon, C., Raubenheimer, C. D., McAllister, D. A., & Gardner, F. (2004). A case study of a national undergraduate science reform effort. In D. W. Sunal, E. L. Wright, & J. B. Day (Eds.), *Reform in undergraduate science teaching for the 21st century* (pp. 225-239). Greenwich, CT: Information Age Publishing Inc.

- McAllister, D. A., Mealer, A., Moyer, P. S., McDonald, S. A., & Peoples, J. B. (2003). *Chattanooga math trail: Community mathematics modules, volume 1*. Washington, DC: U.S. Copyright Office. (ERIC Document Reproduction Service No. ED478915)
- McAllister, D. A., & Moyer, P. S. (Eds.). (2003). *Culminating experience action research projects, volume 3, spring 2003*. (ERIC Document Reproduction Service No. ED481396)
- McAllister, D. A., & Moyer, P. S. (Eds.). (2002). *Culminating experience action research projects, volume 2, fall 2002*. (ERIC Document Reproduction Service No. ED474071)
- Sunal, D., Staples, K., Odell, M., Freeman, M., Whitaker, K., Edwards, L., Johnson, R., Kallam, L., MacKinnon, C., McAllister, D. A., Raubenheimer, C. D., Gardner, F., & Kumar, A. (2002). *NOVA 1996-2002 evaluation report*. Tuscaloosa: University of Alabama (Report sent to NASA Education Division).
- McAllister, D., & Sullivan, G. (1999). *Manipulatives, software, and the web make classroom connectives*. *Tennessee Educational Leadership*, 26(2), 42-47.
- Poppe, B., McAllister, D., & Richardson, L. (1998-1999). *Science on the web: Web activities using scientific data*. Boulder, CO: Space Environment Center/National Oceanic and Atmospheric Administration. (ERIC Document Reproduction Service No. ED434818)
- McAllister, D., & Bartnik, W. K. (1996). *Preservice teacher education and the web: Shifting paradigms, new partnerships* [CD-ROM]. In *WebNet 96* (p. 549). Charlottesville, VA: Association for the Advancement of Computing in Education.
- McAllister, D. A., & Bartnik, W. K. (1996, Fall). *The Microsoft-teacher education partnership: An opportunity for improving teaching and learning*. *Charmed Particles*, 4(3), 11-12.
- McAllister, D. A. (1994). *Individual specialist versus group preparation for a computer programming contest involving secondary students* (Doctoral Dissertation, University of Kansas, 1994). *Dissertation Abstracts International*, 55(09), 2701A.
- McAllister, D. A. (1994). *Individual specialist versus group preparation for a computer programming contest involving secondary students*. Unpublished doctoral dissertation, University of Kansas, Lawrence.
- McAllister, D. A. (1993). *Computer programming contest problems: HyperCard as a tool for student preparation*. In R. W. Wood, C. L. Hoag, & G. G. Zalud (Eds.), *Research, Issues, and Practices*. First Annual Curriculum and Instruction Research Symposium Conference Proceedings. Vermillion, SD: University of South Dakota. (ERIC Document Reproduction Service No. ED363607)
- McAllister, D. A. (1987). *The use of microcomputers in secondary physics*. Unpublished master's thesis, University of Kansas, Lawrence.

Research in Progress:

- Results of professional development workshops.
- Chattanooga Math Trail.
- Action research projects with M.Ed. licensure students.

Advising:

- Currently advising all Secondary Mathematics and Secondary Natural Sciences undergraduate and graduate teacher licensure students in traditional licensure programs; evaluation of transcripts for graduate students in traditional and alternative licensure programs.

Conference and other Presentations:

- (2012) NCTM national conference, Philadelphia, PA (submitted).
- (2012) NSTA national conference, Indianapolis, IN (submitted).
- (2011) Tennessee Reading Association (accepted).
- (2011) Georgia Council of Teachers of Mathematics (accepted).
- 2011 Exploring 2D and 3D Geometry with Polydron Frameworks, 2nd Annual Blount County Mathematics Conference (3 sessions).
- 2011 NCTM national conference, Indianapolis, IN. Exploring 2D and 3D Geometry with Polydron Frameworks. Gallery workshop.
- 2010 Tennessee Education Technology Conference, Nashville, TN. Solar System Toolkit Meets Mathematics Standards. Hands-on computer session.
- 2010 Georgia Council of Teachers of Mathematics, Rock Eagle, GA. Exploring 2D and 3D Geometry with Polydron Frameworks.
- 2010 Georgia Council of Teachers of Mathematics, Rock Eagle, GA. Using Various Strategies and Algorithms.
- 2010 Using the Solar System Exploration Toolkit to Meet State Mathematics Standards and Promote Inquiry, National Space Grant Foundation, 5-day workshop, UTC.
- 2010 Navigations & Technology in the Algebra I & II Classroom. GEAR-UP, 4-day workshop, UTC.
- 2010 Meeting Mathematics Standards with a Deck of Playing Cards, 1st Annual Blount County Mathematics Conference.
- 2010 Math with Toys, 1st Annual Blount County Mathematics Conference.
- 2010 Origami Solutions for Teaching Selected Topics in Geometry, 1st Annual Blount County Mathematics Conference.
- 2010 2nd Annual UTC Research Celebration Week, Summary of Grant Projects 2009-2010 (poster session).
- 2009 Tennessee Education Technology Conference, Nashville, TN. Lunar Toolkit Meets State Mathematics Standards. Hands-on computer session.
- 2009 NCTM regional conference, Nashville, TN. Meeting Mathematics Standards with a Deck of Playing Cards. Gallery workshop.
- 2009 Tennessee Space Grant Consortium, Mathematics and Science Activities for Elementary Grades Preservice Teachers, six, 1-day workshops, UTC (fall 2009 – spring 2010).

- 2009 Georgia Council of Teachers of Mathematics, Rock Eagle, GA. Math with Toys.
- 2009 Georgia Council of Teachers of Mathematics, Rock Eagle, GA. Meeting and Exceeding the Georgia Performance Standards in Grades 6-8 with Geometer's Sketchpad.
- 2009 Using the Lunar Toolkit to Meet State Mathematics Standards, National Space Grant Foundation, 5-day workshop, UTC.
- 2009 Mathematical Processes and Problem Solving. Tennessee Higher Education Commission/Improving Teacher Quality/No Child Left Behind, two, 5-day workshops, UTC.
- 2009 Mathematics Navigations and Technology in Support of Algebra I and II. GEAR-UP, 4-day workshop, UTC.
- 2009 Celebration of Faculty Scholarship, UTC, Grants for Improving Mathematics Education (poster session).
- 2009 Chattanooga Area Mathematics Teachers Association Winter Conference, Chattanooga, TN (invited). Math with Toys.
- 2008 Tennessee Education Technology Conference, Nashville, TN. Online Resources for the Lunar Plant Growth Chamber Project.
- 2008 Tennessee Space Grant Consortium, Challenger Center Missions and Related Mathematics Activities for Preservice Teachers, six, 1-day workshops, UTC (fall 2008 – spring 2009).
- 2008 Georgia Council of Teachers of Mathematics, Rock Eagle, GA. Mathematics and Children's Literature.
- 2008 Georgia Council of Teachers of Mathematics, Rock Eagle, GA. Meeting Mathematics Standards With a Deck of Playing Cards.
- 2008 Georgia Council of Teachers of Mathematics, Rock Eagle, GA. Test-taking Strategies for Middle Grades Mathematics.
- 2008 Georgia Council of Teachers of Mathematics, Rock Eagle, GA. Using the GCTM Mini-Grant To Help Meet the GPS for Grade 6 Mathematics.
- 2008 Tennessee Mathematics Teachers' Association, Clarksville, TN. Math with Toys.
- 2008 Tennessee Mathematics Teachers' Association, Clarksville, TN. Test-Taking Strategies for Middle Grades Students.
- 2008 Lunar Plant Growth Chamber Project. UC Foundation Faculty Research Grant, 1-day workshop, UTC.
- 2008 Mathematics Navigations and Number Sense: ACT Indicators for Grades 3-5. UC Foundation Strategic Initiative Grant, 5-day workshop, and 2-day workshop, UTC.
- 2008 Mathematics Navigations and Technology in Support of Algebra I and II. Tennessee Higher Education Commission/GEAR-UP, 4-day train-the-trainer session, 5-day workshop, UTC.
- 2008 NCTM national conference, Salt Lake City, UT. Meeting Standards with a Deck of Playing Cards, gallery workshop.
- 2008 Chattanooga Area Mathematics Teachers Association Winter Conference, Chattanooga, TN (invited). Meeting Mathematics Standards with a Deck of Playing Cards.
- 2008 Chattanooga Area Mathematics Teachers Association Winter Conference, Chattanooga, TN (invited). Test-Taking Strategies for Middle Grades Students.
- 2007 Tennessee Education Technology Conference, Nashville, TN (invited). Mathematics and Children's Literature Connections with Web Examples.
- 2007 Georgia Educational Technology Conference, Atlanta, GA. Mathematics, Children's Literature, and Internet Activities.
- 2007 Georgia Educational Technology Conference, Atlanta, GA. Accessing Websites Correlated to GPS for Grade Six Mathematics.
- 2007 Teachers for a New Era, Denver, CO. A Formula for Success: Mathematics Department + Teacher Preparation Academy = B.S. with a Double Major
- 2007 Teachers for a New Era, Denver, CO. Math Matters: Results that Add Up for Teachers and Students.
- 2007 Tennessee Space Grant Consortium, Challenger Missions and Related Mathematics Activities for Preservice Teachers, six, 1-day workshops, UTC (fall 2007 – spring 2008).
- 2007 Alabama Council of Teachers of Mathematics, Montgomery, AL. Meeting Standards With a Deck of Playing Cards.
- 2007 Alabama Council of Teachers of Mathematics, Montgomery, AL. Fold and Flip Folders.
- 2007 Georgia Council of Teachers of Mathematics, Rock Eagle, GA. Fold and Flip Folders.
- 2007 Georgia Council of Teachers of Mathematics, Rock Eagle, GA. Meeting Standards With a Deck of Playing Cards.
- 2007 Tennessee Mathematics Teachers' Association, Knoxville, TN. Meeting the Standards with a Deck of Cards.
- 2007 Tennessee Mathematics Teachers' Association, Knoxville, TN. Math Family Fun Night for Middle Schools.
- 2007 Mathematics Navigations and Number Sense. Tennessee Higher Education Commission/Improving Teacher Quality/No Child Left Behind, three, 5-day workshops, UTC.
- 2007 NCTM national conference, Atlanta, GA. Math Family Fun Night for Middle Schools, gallery workshop.
- 2006 Tennessee Education Technology Conference, Nashville, TN. Mathematics and Children's Literature Connections with Computer-Based Examples. Hands-on computer session.
- 2006 Georgia Educational Technology Conference, Atlanta, GA. Mathematics and Children's Literature Connections with Related Internet -Based Activities.
- 2006 Tennessee Space Grant Consortium, Mission Mathematics and Related Space Science Activities for Preservice Elementary Grades Students, six, 1-day workshops, UTC (fall 2006 – spring 2007).
- 2006 Alabama Council of Teachers of Mathematics, Montgomery, AL. Origami Solutions for Teaching Selected Topics in Geometry, workshop.
- 2006 Georgia Council of Teachers of Mathematics, Rock Eagle, GA. More Origami Solutions for Teaching Selected Topics in Geometry, workshop.
- 2006 Georgia Council of Teachers of Mathematics, Rock Eagle, GA. Math Family Fun Night for Middle Schools, workshop.
- 2006 Georgia Council of Teachers of Mathematics, Rock Eagle, GA. The Basics of Folding Six Origami Bases, workshop.
- 2006 Preparing Mathematicians to Educate Teachers, PMET Mini-Conference, Boone, NC, Mathematics and Literature Connections for Middle Grades.

- 2006 Mathematics Navigations and Number Sense. Tennessee Higher Education Commission/Improving Teacher Quality/No Child Left Behind, three, 5-day workshops, UTC.
- 2006 Tennessee Space Grant Consortium, Space Science Activities for Preservice Middle Grades Students, 3-day workshop, UTC.
- 2006 NCTM national conference, St. Louis, MO. Origami Solutions for Teaching Selected Topics in Geometry, workshop.
- 2005 Tennessee Education Technology Conference, Nashville, TN. Mathematics and Children's Literature Connections.
- 2005 Chattanooga Math Trail, NCATE poster session, UTC.
- 2005 Georgia Council of Teachers of Mathematics, Rock Eagle, GA. Origami Solutions for Teaching Selected Topics in Geometry.
- 2005 Georgia Council of Teachers of Mathematics, Rock Eagle, GA. Math Problems 'til the Cows Come Home.
- 2005 Mathematics Navigations and Number Sense. Tennessee Higher Education Commission/Improving Teacher Quality/No Child Left Behind, three, 5-day workshops, UTC.
- 2005 Physical Science, AEL 2-day workshop, UTC.
- 2004 Tennessee Education Technology Conference, Nashville, TN. Java Applets and Curriculum Standards.
- 2004 Alabama Council of Teachers of Mathematics, Montgomery, AL. Java Applets and Curriculum Standards.
- 2004 Tennessee Mathematics Teachers' Association, Chattanooga, TN. Math and Origami.
- 2004 Urban Impact Community Mathematics workshop, Chattanooga Math Trail.
- 2004 Standards-based Instructional Strategies in Mathematics and Science, AEL 2-day workshop, UTC.
- 2004 NCTM national conference, Philadelphia, PA, Chattanooga Math Trail. Poster session.
- 2004 Chattanooga Area Mathematics Teachers Association Winter Conference, Java Applets and Curriculum Standards.
- 2004 Chattanooga Area Mathematics Teachers Association Winter Conference, Math and Origami.
- 2003 Tennessee Education Technology Conference, Nashville, TN. Chattanooga Math Trail.
- 2003 Alabama Council of Teachers of Mathematics, Montgomery, AL. Chattanooga Math Trail.
- 2003 Oak Grove Elementary School, Bradley County, workshop.
- 2003 Urban Impact Community Mathematics workshop, Chattanooga Math Trail.
- 2003 ESL mathematics workshop.
- 2003 Algebra and Geometry Navigations for Grades 3-5. Tennessee Higher Education Commission/Improving Teacher Quality/No Child Left Behind 5-day workshop, 2-day train-the-trainer, UTC.
- 2003 Assessment in the Standards-based Mathematics and Science Classroom, AEL 2-day workshop, UTC.
- 2003 NCOLR mathematics group presentation, Chicago, IL.
- 2003 Teaching, Learning, and Technology Faculty Fellows, UTC. Using Blackboard to Manage Action Research Projects.
- 2003 NOVA Leadership Development Conference, Houston, TX. Poster session.
- 2003 NOVA Leadership Development Conference, Houston, TX. Report on Phase III/NASA field center project.
- 2003 NOVA Leadership Development Conference, Houston, TX. Report on Faculty Fellow Research Award.
- 2003 Teaching, Learning, and Technology Faculty Fellows, UTC. WebQuests.
- 2002 Tennessee Education Technology Conference, Nashville, TN. On-line Mathematics Manipulatives. Hands-on computer session.
- 2002 Tennessee Education Technology Conference, Nashville, TN. Technology and Literature Connections. Hands-on computer session.
- 2002 Foundations for Gateway Success, AEL 2-day workshop, UTC.
- 2002 NOVA Leadership Development Conference, Arlington, VA. Poster session.
- 2002 NOVA Leadership Development Conference, Arlington, VA. Report on Phase III/NASA field center project.
- 2002 NOVA Leadership Development Conference, Arlington, VA. Report on Faculty Fellow Research Award.
- 2001 Tennessee Education Technology Conference, Nashville, TN. On-line Mathematics Manipulatives. Hands-on computer session.
- 2001 Tennessee Education Technology Conference, Nashville, TN. Technology and Literature Connections. Hands-on computer session.
- 2001 Tennessee Education Technology Conference, Nashville, TN. Using Technology to Learn Multiplication Facts. Hands-on computer session.
- 2001 Best Practices@UT 2001 Showcase, Knoxville, TN. Designing Interactive Spreadsheets Containing NASA Data in Education 575.
- 2001 Sequatchie Valley Head Start Family Partnership Conference, Kimball, TN. Mathematics and Literature Connections through Beach Balls and Tangrams. Workshop (invited).
- 2001 NOVA Leadership Development Conference, Arlington, VA. Poster session.
- 2000 Tennessee Education Technology Conference, Nashville, TN. Literature Connection WebQuest for PreK-8. Workshop.
- 2000 Tennessee Education Technology Conference, Nashville, TN. Technology and Literature Connections. Hands-on computer session.
- 2000 Best Practices@UT 2000 Showcase, Knoxville, TN. Education 414 Teaching Mathematics in the Elementary School, Showcase Topic: Literature Connection Web Quest course project.
- 2000 Implementing Mathematics Standards through Computer and Calculator Technologies. Tennessee Higher Education Commission 5-day workshop, UTC.
- 2000 Teaching Mathematics in Grades 5 and 6: Preparing for Gateway Success, AEL 3-day workshop, UTC.
- 2000 UTC Spring Open House, TPA display.
- 2000 NOVA Leadership Development Conference, Orlando, FL. Poster session.
- 1999 Tennessee Education Technology Conference, Nashville, TN. Literature Connection WebQuest for PreK-8. Workshop.

- 1999 AAUW, Chattanooga, TN. Information Technology: A New Frontier for Education.
- 1999 Orchard Knob Middle School, Chattanooga, TN. Faculty technology inservice.
- 1999 Developing Algebraic Thinking in Middle Grades Mathematics and Science, AEL 3-day workshop, UTC.
- 1999 CERTL 4-day technology workshop for Hamilton County Schools, UTC.
- 1999 Governor's School for Prospective Teachers, technology sessions, UTC.
- 1999 Teaching Mathematics with the Internet. Tennessee Higher Education Commission 12-day workshop, UTC.
- 1999 NSTA national convention, Boston, MA. Science Manipulatives on the Web.
- 1999 Appalachian Rural Systemic Initiative, Oneida, TN. Science on the Web: Web Activities Using Scientific Data. Workshop.
- 1999 AECT national meeting, Houston, TX. Mathematics Activities: Manipulatives, Software, and the Web. SRMLC session.
- 1998 ZPG Population Education workshop presented to Educ 411, 412, and 414 students, UTC. Materials provided by Zero Population Growth, Inc., Washington, DC.
- 1998 NSTA southern area convention, Birmingham, AL. Science Manipulatives on the Web.
- 1998 TETC, Nashville, TN. Software Selection for Grades PreK-8. Workshop.
- 1998 Tennessee Association for the Education of Young Children, Chattanooga, TN. Manipulatives, Software, and the Web for Grades PreK-3. Workshop.
- 1998 Teaching Mathematics with the Internet. Tennessee Higher Education Commission 10-day workshop, UTC.
- 1998 NetFest 2, UTC. A Hands-on-the-Web Approach to Education.
- 1998 TETC, Nashville, TN. Mathematics Activities: Manipulatives, Software, and the Web. Workshop.
- 1998 AECT national meeting, St. Louis, MO. From 3D to Infinity: Manipulatives on the Web. SRMLC session.
- 1997 NetFest '97, UTC. Preservice Teacher Education and the Web.
- 1997 NCTM national meeting, Minneapolis, MN. From 3D to Infinity: Manipulatives on the Web. Poster.
- 1997 TETC, Nashville, TN. From 3D to Infinity: Manipulatives on the Web.
- 1997 AECT national meeting, Albuquerque, NM. Microsoft-Teacher Education Partnership: Shifting Paradigms, New Partnerships. SRMLC session.
- 1996 Tri-State Educational Conference, Harrogate, TN. The Design of Computer-Based Instructional Materials Utilizing Microsoft Multimedia Products.
- 1996 TI-82 technology workshop for Chattanooga Public Schools.
- 1996 WebNet 96 international meeting, San Francisco, CA. Preservice Teacher Education and the Web: Shifting Paradigms, New Partnerships. Poster/demonstration.
- 1996 Title I Sharing Conference, Chattanooga, TN. What's New in Technology.
- 1996 Delta Kappa Gamma state meeting, Sewanee, TN. Beginning Internet Instruction, Intermediate Internet.
- 1996 TETC, Nashville, TN. K-12 Lessons that Utilize Microsoft Multimedia Products.
- 1996 AECT national meeting, Indianapolis, IN. The 21st Century Classroom: A Kaleidoscope of Teaching and Learning. SRMLC/DISC session.
- 1996 Delta Kappa Gamma, Chattanooga, TN. The 21st Century Classroom.
- 1995 Chancellor's Round Table, UTC. The 21st Century Classroom.
- 1995 Hosted Netcon 1995, Chattanooga, TN.
- 1995 TETC, Nashville, TN. The 21st Century Classroom Teacher Training Program at UTC.
- 1994 UTC, Teacher Preparation Academy unit meeting, Online Services (email and Internet).
- 1994 AECT national meeting, Nashville, TN. Computer Programming Contest: Advancing the Cooperative Aspects. Roundtable.
- 1993 USD IdeaFest. Computer Programming Contest for High School Students: A Cooperative Learning Study within a Competitive Activity. Showcase of undergraduate student research.
- 1993 USD Curriculum and Instruction Research Symposium. Computer Programming Contest Problems: HyperCard as a Tool for Student Preparation.
- 1993 Hosted a computer programming contest for high school students, USD School of Education.
- 1993 AECT national meeting, New Orleans, LA. Computer Programming Contests: Cooperative Group Versus Individual Specialist Preparation. Showcase.
- 1992 USD 12th Annual Computer Fair. Solving Computer Programming Contest Problems: Student Preparation Through HyperCard.
- 1992 AECT national meeting, Washington, DC. Planning a Successful Computer Contest: Survey Results. Showcase.
- 1991 AECT national meeting, Orlando, FL. Computer Programming Contests: Student Preparation Through HyperCard. Showcase.
- 1990 AECT national meeting, Anaheim, CA. Computer Programming Contests at the Secondary Level. Showcase.

Conferences, Workshops, Special Sessions Attended:

- 2011 Tennessee Transition to Common Core State Standards, Awareness and Implementation Training Sessions, Chattanooga, TN.
- 2011 Tennessee Mathematics for Elementary Education and Tennessee Science for Elementary Education Annual Conference, Cookeville, TN.
- 2011 Instructional Excellence Retreat, UTC.
- 2011 NCTM national conference, Indianapolis, IN.
- 2011 Mathematics and Science Education Research Conference, Murfreesboro, TN.
- 2010 National Science Teachers Association regional conference, Nashville, TN.

2010 Tennessee Education Technology Conference, Nashville, TN.
 2010 Chattanooga Area Mathematics Teachers Association, Chattanooga, TN.
 2010 Georgia Council of Teachers of Mathematics, Rock Eagle, GA.
 2010 Instructional Excellence Retreat, UTC.
 2010 NCTM national conference, San Diego, CA.
 2010 Vernier Hands-on, Data-Collection Workshop, Chattanooga, TN.
 2010 NASA Education Forum entitled “STEM Education Research: Current Findings and Needs” and viewing of the launch of the Space Shuttle Endeavour, Cape Canaveral, FL.
 2009 NSF grant session, Murfreesboro, TN.
 2009 Tennessee Education Technology Conference, Nashville, TN.
 2009 NCTM regional conference, Nashville, TN.
 2009 Georgia Council of Teachers of Mathematics, Rock Eagle, GA.
 2009 Instructional Excellence Retreat, UTC.
 2009 NCTM national conference, Washington, DC.
 2009 Celebration of Faculty Scholarship, UTC.
 2009 Chattanooga Area Mathematics Teachers Association Winter Conference, Chattanooga, TN.
 2009 Wild Women at Lutheridge (ELCA), Arden, NC.
 2009 Mathematics and Science Education Research Conference, Murfreesboro, TN.
 2008 Tennessee Education Technology Conference, Nashville, TN.
 2008 Georgia Council of Teachers of Mathematics, Rock Eagle, GA.
 2008 Tennessee Mathematics Teachers’ Association, Clarksville, TN.
 2008 Instructional Excellence Retreat, UTC, Monteagle, TN.
 2008 NCTM national conference, Salt Lake City, UT.
 2008 Trinity Lutheran Church Women’s Retreat, Hixson, TN.
 2008 Chattanooga Area Mathematics Teachers Association Winter Conference, Chattanooga, TN.
 2008 Mathematics and Science Education Research Conference, Murfreesboro, TN.
 2008 Wild Women at Lutheridge (ELCA), Arden, NC.
 2007 Tennessee Education Technology Conference, Nashville, TN.
 2007 Georgia Educational Technology Conference, Atlanta, GA.
 2007 Teachers for a New Era, Denver, CO.
 2007 Alabama Council of Teachers of Mathematics, Montgomery, AL.
 2007 Georgia Council of Teachers of Mathematics, Rock Eagle, GA.
 2007 Tennessee Mathematics Teachers’ Association, Knoxville, TN.
 2007 Barnard-Seyfert Astronomical Society, Tennessee Star Party 2007, Lynchburg, TN.
 2007 Instructional Excellence Retreat, UTC, Monteagle, TN.
 2007 NCTM national conference, Atlanta, GA.
 2007 Vernier Hands-On, Data-Collection Workshop, Chattanooga, TN.
 2007 K-12 Mathematics Update, Walker County Schools, GA.
 2007 Wild Women at Lutheridge (ELCA), Arden, NC.
 2007 Mathematics and Science Education Research Conference, Murfreesboro, TN.
 2006 Tennessee Education Technology Conference, Nashville, TN.
 2006 Georgia Educational Technology Conference, Atlanta, GA.
 2006 Alabama Council of Teachers of Mathematics, Montgomery, AL.
 2006 Georgia Council of Teachers of Mathematics, Rock Eagle, GA.
 2006 Barnard-Seyfert Astronomical Society, Tennessee Star Party 2006, Lynchburg, TN.
 2006 PMET Mini-Conference, Boone, NC.
 2006 Instructional Excellence Retreat, UTC, Monteagle, TN.
 2006 NCTM national conference, St. Louis, MO.
 2006 Wild Women at Lutheridge (ELCA), Arden, NC.
 2005 Tennessee Education Technology Conference, Nashville, TN.
 2005 NSTA regional conference, Nashville, TN.
 2005 NCATE poster session, UTC.
 2005 Georgia Council of Teachers of Mathematics, Rock Eagle, GA.
 2005 Barnard-Seyfert Astronomical Society, Tennessee Star Party 2005, Crossville, TN.
 2005 NOVA Leadership Development Conference, Towson, MD.
 2005 Preparing Mathematicians to Educate Teachers, Mathematics for Middle Grades Majors, NC A&T University, Greensboro, NC.
 2005 Instructional Excellence Retreat, UTC, Monteagle, TN.
 2005 NCTM national conference, Anaheim, CA.
 2005 Wild Women at Lutheridge (ELCA), Arden, NC.
 2004 Tennessee Education Technology Conference, Nashville, TN.
 2004 Alabama Council of Teachers of Mathematics, Montgomery, AL.

2004 Tennessee Mathematics Teachers Association, Chattanooga, TN.
 2004 Barnard-Seyfert Astronomical Society, Tennessee Star Party 2004, Crossville, TN.
 2004 Preparing Mathematicians to Educate Teachers, Mathematics for Middle Grades Majors, Appalachian State University, Boone, NC.
 2004 National Computational Science Institute, Shodor Foundation/Pellissippi State Technical Community College, Knoxville, TN.
 2004 Instructional Excellence Retreat, UTC, Monteagle, TN.
 2004 Reception for class of 2004 astronauts, including educator astronauts, NASA, Washington, DC.
 2004 NCTM national conference, Philadelphia, PA.
 2004 UT System-wide Faculty and Student Council meeting, Fall Creek Falls, TN.
 2004 Chattanooga Area Mathematics Teachers Association Winter Conference.
 2003 Tennessee Education Technology Conference, Nashville, TN.
 2003 Alabama Council of Teachers of Mathematics, Montgomery, AL.
 2003 Barnard-Seyfert Astronomical Society, Tennessee Star Party 2003, Crossville, TN.
 2003 National Computational Science Institute, Shodor Foundation/University of Alabama at Birmingham.
 2003 Instructional Excellence Retreat, The Learning Portfolio: Improving and Assessing Student Learning, UTC, Monteagle, TN.
 2003 NCOLR, Chicago, IL.
 2003 NOVA Leadership Development Conference, Houston, TX.
 2003 AEL train the trainer session, Nashville, TN.
 2002 Tennessee Education Technology Conference, Nashville, TN.
 2002 Teaching, Learning, and Technology Faculty Fellows workshop, UTC.
 2002 NCOLR conference and workshop, University of Alabama.
 2002 Instructional Excellence Retreat, Information Literacy, UTC, Watts Bar Resort.
 2002 NCTM national conference, Las Vegas, NV.
 2002 NOVA Leadership Development Conference, Greenbelt, MD.
 2002 AEL train the trainer session for Foundations for Gateway Success, Nashville, TN.
 2002 Dreamweaver Web page software workshop, UTC.
 2002 Southeast Regional Space Grant Consortium, Huntsville, AL.
 2001 Tennessee Education Technology Conference, Nashville, TN.
 2001 Alabama Council of Teachers of Mathematics, Montgomery, AL.
 2001 Tennessee Space Grant Consortium, Nashville, TN.
 2001 Best Practices@UT 2001 Showcase, Knoxville, TN.
 2001 Blackboard overview; Course Management and Delivery System for the Web, hands-on seminar, Walker Teaching Resource Center, UTC.
 2001 Instructional Excellence Retreat, UTC, Watts Bar Resort.
 2001 NCTM national conference, Orlando, FL.
 2001 NSTA national convention, St. Louis, MO.
 2001 AEL train the trainer session for Graphing Calculators in Middle Grades Mathematics, Nashville, TN.
 2001 Mathematics Colloquium, What future American teachers need to know about not-so-elementary mathematics, UTC.
 2001 Faculty Teaching Excellence Panel, Teams in the classroom and workplace, UTC.
 2001 U. S. Department of Education Title II Teacher Quality Institute, Biloxi, MS.
 2001 NOVA Leadership Development Conference, Arlington, VA.
 2000 Tennessee Education Technology Conference, Nashville, TN.
 2000 AECT national meeting, Denver, CO.
 2000 Tennessee Space Grant Consortium, Nashville, TN.
 2000 Solve It! Mazes, Math & More, Creative Discovery Museum, Chattanooga, TN.
 2000 Best Practices@UT 2000 Showcase, Knoxville, TN.
 2000 Tennessee Regional Math and Science Summit IV, Knoxville, TN.
 2000 Grant and Contract Seminar, CEAPS, UTC.
 2000 Conversations to Improve Teaching K-16, CEAPS, UTC.
 2000 Instructional Excellence Retreat, Strategies for Learning, UTC, Watts Bar Resort.
 2000 NCTM national conference, Chicago, IL.
 2000 NSTA national convention, Orlando, FL.
 2000 AEL train the trainer session for Teaching Mathematics in Grades 5 and 6: Preparing for Gateway Success, Nashville, TN.
 2000 Teaching, Learning, and Technology Roundtable, panel discussion with the University Technology Committee, UTC.
 2000 Preparing Tomorrow's Teachers to Use Technology, UTC project worker sessions.
 2000 Eisenhower National Clearinghouse Access Center training, Richmond, VA.
 2000 NASA/Mars teacher workshop, UTC Challenger Center.
 2000 Tennessee team leaders meeting, Eisenhower Regional Consortium for Mathematics and Science Education at Appalachia Educational Laboratory, Nashville, TN.
 2000 NOVA Leadership Development Conference, Orlando, FL.
 1999 Eisenhower Project Directors' Workshop, Tennessee Higher Education Commission, Nashville, TN.

- 1999 Tennessee Education Technology Conference, Nashville, TN.
- 1999 NCTM central regional conference, Topeka, KS.
- 1999 Presentation by John Stossel, ABC's 20/20, UTC.
- 1999 Web Course in a Box: Course Management and Delivery System for the Web, hands-on seminar, Walker Teaching Resource Center, UTC.
- 1999 Teaching, Learning, and Technology Roundtable, How Things Have Changed: Experiences with Teaching, Learning, and Technology, UTC.
- 1999 Teaching, Learning, and Technology Roundtable, Enhanced Learning Using Electronic Communication, UTC.
- 1999 America Goes Back to School, UTC, U. S. Secretary of Education Richard Riley.
- 1999 Tennessee Space Grant Consortium, Nashville, TN.
- 1999 INTASC Academy I on Professional Development through Portfolio Assessment in Mathematics, Alverno College, Milwaukee, WI.
- 1999 NASA Opportunities for Visionary Academics (NOVA), WKU, Bowling Green, KY.
- 1999 Instructional Excellence Retreat, Facilitating Oral Communication, UTC, Watts Bar Resort.
- 1999 AEL train the trainer session for Developing Algebraic Thinking in Middle Grades Mathematics and Science, MTSU, Murfreesboro, TN.
- 1999 NSTA national convention, Boston, MA.
- 1999 AECT national meeting, Houston, TX.
- 1998 Tennessee team leaders meeting, Eisenhower Regional Consortium for Mathematics and Science Education at Appalachia Educational Laboratory, Nashville, TN.
- 1998 NSTA southern area convention, Birmingham, AL.
- 1998 TETC, Nashville, TN.
- 1998 Making Algebra Child's Play: A Hands-On Equations Workshop, Phi Delta Kappa, Chattanooga, TN.
- 1998 NCTM central regional conference, Louisville, KY.
- 1998 Instructional Excellence Retreat, Fun with Writing, UTC, Watts Bar Resort.
- 1998 NSTA, national meeting, Las Vegas, NV.
- 1998 TETC, Nashville, TN.
- 1998 AECT national meeting, St. Louis, MO.
- 1998 Wild Women at Lutheridge (ELCA), Arden, NC.
- 1997 NSTA southern area convention, Nashville, TN. Session presider.
- 1997 The Electronic Classroom. UTC College of Arts and Sciences.
- 1997 NCTM southern regional conference, Memphis, TN.
- 1997 Mid-South Math and Science Summit, UTC Challenger Center.
- 1997 AECT 1998 National Convention Program Planning Committee meeting, St. Louis, MO.
- 1997 Instructional Excellence Retreat, Creating & Maintaining Learning Environments, UTC, Watts Bar Resort.
- 1997 CERTL Workshop on Standards-Based Education, UTC.
- 1997 NetFest '97, UTC.
- 1997 NCTM national meeting, Minneapolis, MN.
- 1997 TETC, Nashville, TN.
- 1997 AECT national meeting, Albuquerque, NM.
- 1997 Special Topics in MS Excel 5.0. UTC Division of Information Technology Services.
- 1997 The Internet Teaching Frontier. UTC College of Arts and Sciences.
- 1996 Tri-State Educational Conference, Harrogate, TN.
- 1996 WebNet 96 international meeting, San Francisco, CA.
- 1996 Crossroads in Mathematics, UTC.
- 1996 Ernest L. Boyer Technology Summit, NCATE/CPB, Peabody College at Vanderbilt University, Nashville, TN.
- 1996 Tennessee Collaborative Leadership Academy, Interdisciplinary Teaching and Learning, Tennessee Technological University, Cookeville, TN.
- 1996 Tennessee Association of Colleges for Teacher Education, Additional endorsement workshop/training for university certification analysts, Gatlinburg, TN.
- 1996 Science/Math Technology Implementation Leadership Training for Higher Education/K-12 Consortia, Center of Excellence for Science and Mathematics Education, University of Tennessee at Martin, Eisenhower Regional Consortium for Mathematics and Science Education at Appalachian Educational Laboratory, Inc.; Austin Peay State University, Clarksville, TN.
- 1996 Instructional Excellence Retreat, Motivating Students Through Cooperative Learning, UTC, Watts Bar Resort.
- 1996 Spellman College multimedia visit, Atlanta, GA.
- 1996 TETC, Nashville, TN.
- 1996 AECT national meeting, Indianapolis, IN.
- 1996 Participant in new IMAX commercial for "Into the Deep," Chattanooga, TN.
- 1995 Center of Excellence for Computer Applications Make Your Own Web Page, UTC.
- 1995 Microsoft Help '95-'96, Nashville, TN.
- 1995 The Power of Connecting Schools teleconference, Chattanooga Civic Forum.

- 1995 Leadership workshop for Implementing Science Learning Technologies, Center of Excellence for Science and Mathematics Education, University of Tennessee at Martin.
- 1995 Instructional Excellence Retreat, Technology at the Bar, UTC, Watts Bar Resort.
- 1995 Safety seminar, UTC.
- 1995 NCTM, national meeting, Boston, MA.
- 1995 NSTA, national meeting, Philadelphia, PA.
- 1995 TETC, Nashville, TN.
- 1995 AECT/InCITE, national meeting, Anaheim, CA. Session presider.
- 1995 Center of Excellence for Computer Applications Beginning PageMaker, UTC.
- 1995 Center of Excellence for Computer Applications Windows Internet Tools, UTC.
- 1995 Challenger Learning and Teaching Center of Chattanooga, Rendezvous with Comet Halley mission, UTC.
- 1995 Center of Excellence for Computer Applications Cecasun Internet Tools, UTC.
- 1994 Challenger Learning Center, visit, Framingham State College.
- 1994 Tennessee Association of Colleges for Teacher Education, Nashville, TN.
- 1994 Technology Coordinator Conference, State Department of Education and Middle Tennessee State University, Murfreesboro, TN.
- 1994 Tennessee Apple K-12 Update, Nashville, TN.
- 1994 Netcon, Chicago, IL.
- 1994 Tennessee Higher Education Conference on the Science and Mathematics Preparation of Elementary Teachers, Center of Excellence for Science and Mathematics Education, University of Tennessee at Martin, Henry Horton State Park.
- 1994 NCTM, national meeting, Indianapolis, IN.
- 1994 NSTA, national meeting, Anaheim, CA.
- 1994 AECT national meeting, Nashville, TN.
- 1994 ASIS training, Administrative Computing Services, UTC.
- 1994 Center of Excellence for Computer Applications, What's in it for me?, UTC.
- 1993 American Chemical Society Satellite Seminar, UTC.
- 1993 Center of Excellence for Computer Applications grant-writing session, UTC.
- 1993 CAMTA fall meeting.
- 1993 Fun with Fossils, Creative Discovery Museum, UTC.
- 1993 National Science Foundation grant-writing workshop, University of Tennessee at Knoxville Division of Continuing Education, Chattanooga, TN
- 1993 University of South Dakota IdeaFest.
- 1993 University of South Dakota Curriculum and Instruction Research Symposium.
- 1993 AECT national meeting, New Orleans, LA.
- 1992 University of South Dakota 12th Annual Computer Fair.
- 1992 University of Kansas Academic Computing Services Multiuser Seminar, Introduction to Electronic Mail.
- 1992 University of Kansas Academic Computing Services Multiuser Seminar, Introduction to SPSS.
- 1992 Apple Computer, Multimedia and Media Integration Products and Information, Overland Park, KS.
- 1992 Macfest, Benedictine College, Atchison, KS.
- 1992 AECT national meeting, Washington, DC.
- 1991 Apple Computer, The Revolution Continues, announcement of new products, Overland Park, KS.
- 1991 Apple Computer, Meeting the Education Needs of the 21st Century, Overland Park, KS.
- 1991 Apple Computer, demonstration of System 7.0, Overland Park, KS.
- 1991 AECT national meeting, Orlando, FL.
- 1990 FileMaker II training session, Overland Park, KS.
- 1990 Apple Computer, announcement of new products, Kansas City, MO.
- 1990 AECT national meeting, Anaheim, CA.
- 1987 Kansas Workshops for Teachers of Mathematics, Micro/Math, University of Kansas.
- 1986 AppleWorks training session, Overland Park, KS.
- 1983 Regional educational computing conference, University of Kansas.
- 1983 Computers in Science Education, Emporia State University, Emporia, KS.
- 1982 Seminar on Energy, Kansas State University.

Grants Funded:

- 2011-2012 Tennessee Higher Education Commission/Race to the Top. Numeracy, Representation, and STEM Connections for K-2 Teachers, \$200,000.00
- 2011 UTC Faculty Development for NCTM national conference presentation and attendance, \$737.00.
- 2011 UTC Library Enhancement Initiative, Elementary Mathematics with Stuart J. Murphy, \$706.00.
- 2010 Tennessee Space Grant Consortium. Augmentation for Middle Grades (4-8), \$18,000.00.
- 2010 Tennessee Space Grant Consortium. NASA Mathematics Resources and Super Source Activities for Elementary Grades Preservice Teachers, \$12,750.00.

2010 UTC Library Enhancement Initiative, Elementary Mathematics, \$750.00.

2010 National Space Grant Foundation, Aerospace Education Services Project Implementation Mini-grant. Using the Solar System Exploration Toolkit to Meet State Mathematics Standards and Promote Inquiry, \$15,000.00.

2009 Tennessee Space Grant Consortium. Mathematics and Science Activities for Elementary Grades Preservice Teachers, \$15,000.00.

2009 UTC Library Enhancement Initiative, Count on Us, \$422.80.

2009 National Space Grant Foundation, Aerospace Education Services Project Implementation Mini-grant. Using the Lunar Toolkit to Meet State Mathematics Standards, \$15,000.00.

2009 Tennessee Higher Education Commission/Improving Teacher Quality/No Child Left Behind. Mathematical Processes and Problem Solving, \$74,760.00.

2008 UTC library fund, \$500.00 for library materials.

2008 UTC Instructional Excellence. Inspiring Students with TI-Nspire, \$1,491.00.

2008 Tennessee Space Grant Consortium. Challenger Center Missions and Related Mathematics Activities for Preservice Teachers, \$15,000.00.

2008 UC Foundation Strategic Initiative Grant. Mathematics Navigations and Number Sense: ACT Indicators for Grades 3-5, \$24,975.00.

2008 UTC Faculty Research. Lunar Plant Growth Chamber Project, \$1,927.00.

2008 Tennessee Higher Education Commission/GEAR-UP. Mathematics Navigations and Technology in Support of Algebra I and II, \$75,000.00.

2007 UTC library fund, \$500.00 for library materials.

2007 UTC Instructional Excellence. A Gallery of Mathematics Games, \$3,000.00.

2007 University Honors Student Assistant Program, UTC.

2007 Tennessee Space Grant Consortium. Challenger Missions and Related Mathematics Activities for Preservice Teachers, \$15,000.00.

2007 UTC Instructional Excellence. Application of TI Technology to Topics in Education, \$2,998.00.

2007 UTC Instructional Excellence. Enhancing Knowledge of Instructional Software for Use in K-12 Classrooms, \$2,985.00 (with M. D. Roblyer).

2007 Tennessee Higher Education Commission/Improving Teacher Quality/No Child Left Behind. Mathematics Navigations and Number Sense, \$73,000.00.

2006 UTC library fund, \$500.00 for library materials.

2006 UTC Instructional Excellence. An Exploration of Geometry and Motion with Wedgits and Quadrilla, \$3,000.00.

2006 Tennessee Space Grant Consortium. Mission Mathematics and Related Space Science Activities for Preservice Elementary Grades Students, \$14,678.00.

2006 UTC Faculty Research. An Exploration of Geometry through Origami, \$3,000.00.

2006 UTC Instructional Excellence. All About Measurement, \$3,000.00.

2006 Tennessee Space Grant Consortium. Space Science Activities for Preservice Middle Grades Students, \$10,000.00.

2006 UTC Instructional Excellence. AlgebraWorks and FractionWorks, \$3,000.00.

2006 Tennessee Higher Education Commission/Improving Teacher Quality/No Child Left Behind. Mathematics Navigations and Number Sense, \$75,000.00.

2005 UTC library fund, \$500.00 for library materials.

2005 UTC Instructional Excellence. A Center Stage for Mathematics in the Elementary School, \$3,000.00.

2005 CECA, An Exploration of Motion through Hand-held Technology in Mathematics Education, \$3,000.00.

2005 Tennessee Space Grant Consortium, Astronomy and Mathematics Connections through WebQuests, \$3,724.00.

2005 Tennessee Higher Education Commission/Improving Teacher Quality/No Child Left Behind. Mathematics Navigations and Number Sense, \$67,822.00.

2005 UTC travel funds for attendance at professional meetings, \$700.00.

2004 UTC library fund, \$500.00 for library materials.

2004 UTC Library Enhancement Initiative, An Exploration of Geometry through Origami, \$612.00.

2003 Lupton Faculty Professional Participation, UTC, \$250.00 (for ACTM 2004).

2004 UTC Instructional Excellence. Astronomy and Mathematics Connections, \$1,500.00.

2004 UTC Faculty Research. Incorporating Java Applets into Mathematics Education, \$3,000.00.

2004 UTC Instructional Excellence. Collaboration through Outstanding Science Trade Books for Students, \$2,995.00.

2004 Tennessee Space Grant Consortium. Digitizing Science Activities that Correlate to Earth and Space Science Curriculum Standards, \$4,656.00.

2003 UTC Faculty Research. Digitizing Mathematics Activities for Use in Improving Fluency and Flexibility of Skills, \$3,000.00.

2003 UTC Library Enhancement Initiative, \$485.00.

2003 UTC library fund, \$500.00 for library materials.

2003 UTC Instructional Excellence. Classroom Sets of Mathematics Manipulatives to Assist in Urban and Rural Field Placements, \$3,000.

2003 Sun Microsystems. Academic Excellence Grant, Sun Web-Hosting of the Chattanooga Math Trail, \$9,860.00.

2003 Lupton Faculty Professional Participation, UTC, \$500.00 (for NCTM 2004).

2003 NCSI workshop stipend and expenses, and \$250 for materials.

2003 University Honors Student Assistant Program, UTC.

2003 Tennessee Space Grant Consortium. Integrating Space Science and Other Natural Science IMAX DVDs with K-12 Curriculum, \$4,657.

2003 Lupton Faculty Professional Participation, UTC, \$500.00.

2003 Lupton Faculty Professional Participation, UTC, \$1,000.00.

2003 NOVA, travel to Leadership Development Conference, \$550.00.

2002 UTC Faculty Research. Publication of Chattanooga Math Trail, \$2,369.00.

2002-2003 Tennessee Higher Education Commission/Improving Teacher Quality/No Child Left Behind. Algebra and Geometry Navigations for Grades 3-5, \$50,000.00.

2002 UTC Instructional Excellence. DVD-ROM Collection for Student Projects and Field Placements, \$1,498.00.

2002-2004 NOVA Faculty Fellow Research Award, \$6,400.00.

2002 UTC Instructional Excellence. Application of Mathematics Knowledge and Skills to the Everyday Mathematics Curriculum, \$3,000.00.

2002 Teaching, Learning, and Technology Faculty Fellow, UTC, \$4,000.00.

2002 NOVA Phase III/field center program, stipend and travel for project and web page development at NASA Langley Research Center, Hampton, VA, \$2,390.00.

2002 NOVA Phase III/field center program, stipend and travel for project and web page development at NASA Ames Research Center, Mountain View, CA, \$4,726.00.

2002 Tennessee Space Grant Consortium. Using K'nex to Model Mathematics, \$1,711.00.

2002 UTC Technology Fee funding. CD Tower, \$2,342.00.

2002-2003 NCOLR Faculty Fellow Research Award, \$1,692.78.

2002 NOVA, travel to Leadership Development Conference, \$927.00.

2002 UTC Instructional Excellence. Interactive Mathematics Software, \$1,410.00.

2002 NCOLR. NOVA Phase III implementation project, \$2,979.00.

2002 UTC Faculty Development for NCTM national conference attendance, \$728.00.

2002 UTC library fund, \$500.00 for library materials.

2001 UTC Instructional Excellence. Mathematics and Science Connections with K'nex, \$1,491.00.

2001 UTC travel funds for attendance at professional meetings, \$500.00.

2001-2002 NOVA Faculty Fellow Research Award, \$6,200.00.

2001 Microsoft Teacher Training Partnership, additional products and licensing, \$63,706.00.

2001 NOVA Phase III, stipend and travel for project and web page development at Johnson Space Center, Houston, TX, \$5,255.00.

2001 UTC Instructional Excellence. Mathematics, Literature, and Technology Connections, \$1,036.00.

2001 Urban Impact Professional Development. Travel funds to attend NCTM national conference, Orlando, FL, \$2,298.00.

2000 Microsoft Teacher Training Partnership, additional products and licensing, \$23,792.00.

2000 UTC Faculty Development for AECT conference attendance, \$1,820.00.

2000 CECA Special Support Project, \$43,827.00, 16 Macintosh G4 computers, 21st Century Classroom.

2000 Tennessee Space Grant Consortium. Funding to attend NSTA in Orlando, FL, April 2000, \$929.96.

2000 UTC Instructional Excellence. Communication Between Children and University Students through Technology Connections, \$1,500.00.

2000 UTC travel funds for attendance at professional meetings, \$500.00.

1999-2000 Tennessee Higher Education Commission. Implementing Mathematics Standards through Computer and Calculator Technologies, \$24,036.00.

1999 UTC Library Enhancement Initiative, \$497.90.

1999 Expenditure of University Technology Committee/student technology fee money awarded to CEAPS, \$27,000.00.

1999 NASA Opportunities for Visionary Academics (Project NOVA). Implementing Change in Mathematics and Methods Courses for Early Childhood and Middle School Preservice Teachers, \$25,000.00.

1999 UTC Faculty Development for NCTM regional conference attendance, \$797.00.

1999-2002 Microsoft Teacher Training 1999-2001 partnership renewal, software and licensing for UTC training site, \$30,000.00; extended to 2002.

1998 UTC Instructional Excellence. Educational Connections: Enhancing the Professional Development School Experience, \$3,000.00.

1998-1999 Tennessee Higher Education Commission. Teaching Mathematics with the Internet, \$20,000.00.

1998-2000 Pierian Spring Software's Education Connection, \$1,553.00.

1998-2000 Edmark Corporation, K-12 software, \$1,948.00.

1998 UTC Faculty Development for NCTM regional conference attendance, \$757.00.

1998 NOAA travel support for attendance at NSTA national convention.

1998 Apple/NSTA Math/Science Solution Grant, \$34,200.00.

1998 CECA funding for computers for the 21st Century Classroom, \$27,000.00.

1998 UTC Instructional Excellence. A Hands-on Approach to Mathematics and Science Education, \$3,000.00.
 1998 UTC library fund, \$500.00 for library materials.
 1997 UTC Technology Innovation. Windows-based Work Station, \$1,500.00.
 1997 UTC Technology Innovation. Linking PDS Activities and Campus-based Students through CU See Me, \$7,996.00.
 1997 UTC Technology Innovation. Campus-wide Classroom Audiovisual Equipment, \$7,990.00.
 1997-1998 Tennessee Higher Education Commission. Teaching Mathematics with the Internet, \$23,000.00.
 1997 UTC Instructional Excellence. Technology Training for Pre-service and In-service Graduate Students, \$3,000.00.
 1997-1999 Microsoft Teacher Training 1997-1999 partnership renewal, software and licensing for 17 training sites, \$516,000.00.
 1997 UTC Faculty Development for NCTM/NSTA regional conference attendance, \$54.00.
 1997 Comcast extended cable television service for the 21st Century Classroom, \$720.00 per year.
 1997 UTC Faculty Development for AECT 1998 planning meeting, \$663.00.
 1997 UTC Instructional Excellence. The 21st Century Classroom: Exploring new professional development products, \$795.00.
 1997 CECA Research Grant, Reassessment of a Departmental Home Page based upon Elements of Web Page Design and Presentation Guidelines, \$2,300.00.
 1996 Corporation for Public Broadcasting, The Use of Technology to Improve the Teaching of Eighth-Grade Algebra, \$5,000.00.
 1996-1997 Microsoft Professional Development Partnership, software and licensing valued at \$40,307.00 for UTC, area schools, Moccasin Bend Girl Scout Council.
 1996 UTC Instructional Excellence Grant. The 21st Century Classroom: Meeting State-Mandated Technology Standards, \$2,988.00.
 1996 UTC Faculty Development for presentation at AECT 1997, \$1,000.00.
 1996 Corel Non-event Sponsorship, software and licensing valued at \$21,059.00.
 1996 Eisenhower Regional Consortium for Mathematics and Science Education at Appalachia Educational Laboratory, Inc., calculator and computer technology materials valued at \$2,000.00.
 1996 UTC travel funds for attendance at professional meetings, \$1,000.00.
 1996 UTC library fund, \$1,000.00 for library materials.
 1996 UTC Instructional Excellence Grant. The 21st Century Classroom: Software Flexibility, \$981.00.
 1996 UTC Faculty Development for presentation at TETC 1996, \$341.00.
 1995 UTC travel funds for attendance at professional meetings, \$500.00.
 1995 UTC Instructional Excellence Grant. The 21st Century Classroom: Expanding Multimedia Support, \$1,472.00.
 1995-1996 Microsoft - Teacher Education Partnership, software valued at \$27,679.00 for UTC, area schools, Moccasin Bend Girl Scout Council.
 1994-1995 Microsoft - Teacher Education Partnership, software valued at \$16,700.00 for UTC.
 1994 UTC Instructional Excellence Grant. The 21st Century Classroom: Expanding Preview Hardware, \$1,380.00.
 1995 UTC travel funds for attendance at professional meetings, \$751.99.
 1995 UTC library fund, \$500.00 for library materials.
 1994 UTC Instructional Excellence Grant. Mathematics Education: Working with Manipulatives, \$792.00.
 1994 UTC travel funds for attendance at professional meetings, \$1,760.00.
 1994 UTC PATER fund, \$1,000.00 for course development materials.
 1994 UTC library fund, \$500.00 for library materials.
 1993 Teleometrics International, The Woodlands, TX, \$242.00 instruments, in kind.
 1990 Southwestern Bell/Kansas Educational Excellence Grant, \$200.00, computer programming contests.
 1990 University of Kansas/Graduate Student Travel Fund, \$250.00, AECT/Infocomm, Anaheim, CA.

Grant Work:

2009-2010 GEAR-UP algebra workshop, Dr. Hunter Huckabay.
 2008 THEC grant for UTC Teacher Preparation Academy, Dr. Kay Cowan.
 2007-2008 TNE, Dr. Bonnie Warren-Kring.
 2006-2008 THEC grant for UTC Mathematics Department, Drs. Smith, Saleh, and Barrioli.
 2004-2010 UTC Summer Institute for Special Education, Dr. Barbara Ray.
 2002-2003 NOVA Faculty Fellow, participated in publication writing workshop, University of Alabama.
 2002 NOVA Faculty Fellow, participated in writing 6-year report for NASA, University of Alabama.
 2002 Tennessee Space Grant Consortium, UTC accepted as an affiliate.
 2002-2003 Faculty Fellow Research Award, National Center for Online Learning Research (NCOLR).
 2002-2003 Conducted NASA/NOVA site visits at Middle Tennessee State University, Morris Brown College, and Roger Williams University.
 2001-2010 UTC library fund, coordinated TPA request (\$7,000.00 per year).
 2001-2004 NOVA Faculty Fellow Research Award, assessment team, University of Alabama.
 2001 NASA Earth Science Enterprise grant, UTC, Academic Task Force Coordinator.
 2000 Urban Impact grant, UTC, Mathematics team leader.

- 2000 NASA Earth Science Enterprise grant, UTC.
- 2000 Preparing Tomorrow's Teachers to Use Technology, UTC project team leader.
- 2000 Eisenhower National Clearinghouse Access Center established on the UTC campus, Eisenhower Regional Consortium for Mathematics and Science Education at AEL.
- 1999 Tennessee Space Grant Consortium, presentation for UTC membership.
- 1998-2005 AEL/Eisenhower Consortium Tennessee District #3 Team Leader, Nashville, TN, Arlington, VA/Charleston, WV.
- 1998 Technology Innovation Challenge Grant grant-writing team, UTC.
- 1998 FIPSE grant-writing committee, CEAPS.
- 1998 Teaching Engineering Action-Agenda Challenge (TEACH) Program (Systemic Engineering Education Reform, NSF RFP) grant-writing committee, UTC.
- 1997-1999 Center of Excellence for Research, Teaching, and Learning (CERTL), technology training at UTC.
- 1996 UTC library fund, coordinated TPA request (\$7,000.00).
- 1996 ConnectTEN UTC lead trainer for the TN Dept. of Education.
- 1995 ConnectTEN Internet planning team for the TN Dept. of Education.
- 1995-1997 Southeast Tennessee Professional Development Consortium for the Integration of Technology (Goals 2000), teacher training in educational technology.
- 1994-2001 Technology Coordinator, 21st Century Classroom, trainer and presenter for various programs.
- 1994 UTC Summer Institute for Special Education.
- 1993-1994 UTC Mathematics Department, Betsy Darken (grantee).

Panel Reviews:

- 2008 Field reader (alternate), Fund for the Improvement of Postsecondary Education (FIPSE), U.S. Department of Education.
- 2006 Field reader, Fund for the Improvement of Postsecondary Education (FIPSE), U.S. Department of Education.
- 2003- Reviewer, Journal of Interactive Online Learning (a publication of the National Center for Online Learning Research).
- 2003 Educator Astronaut Minimum Qualifications Review Panel, NASA, Arlington, VA.
- 2000 Field reader for Preparing Tomorrow's Teachers to Use Technology grant competition, U.S. Department of Education, Tier 1, Columbia, SC, Tier 2, Rockville, MD.
- 1999 Grant proposal reviewer for 2000 Instructional Technology Projects for Tennessee Teachers, Eisenhower Regional Consortium for Mathematics and Science Education at AEL.
- 1999 Field reader for Community Technology Centers Program, U.S. Department of Education.
- 1999 Field reader for Preparing Tomorrow's Teachers to Use Technology grant competition, U.S. Department of Education, Tier 1, Atlanta, GA, Tier 2, Washington, DC.
- 1999 Field reader for Technology Innovation Challenge Grant competition, U.S. Department of Education, Memphis, TN.
- 1997 NSF Presidential mathematics awards selection team for Tennessee.

Honors and Awards:

- Outstanding Service/Outreach Award, UTC College of Health, Education, and Professional Studies, 2010-2011
- EDO rating of Exceeds Expectations, 2009-2010
- Grantsmanship Award, UTC College of Health, Education, and Professional Studies, 2007-2008
- Elected to Alpha Society, 2007
- Recognition of Scholarship, UTC Office of Grants and Program Review, 2006
- EDO rating of Exceeds Expectations, 2005-2006
- Sabbatical leave, spring semester 2005
- EDO rating of Exceptional Merit, 2003-2004
- Promoted to the rank of Professor, 2003
- EDO rating of Exceptional Merit, 2002-2003
- Teaching and Advising Award, UTC College of Education and Applied Professional Studies, 2002-2003
- Faculty Fellow Research Award, NASA Opportunities for Visionary Academics (NOVA), 2002-2003
- Teaching, Learning, and Technology Faculty Fellow, UTC, 2002-2003
- Faculty Fellow Research Award, National Center for Online Learning Research (NCOLR), 2002-2003
- Faculty Fellow Research Award, NASA Opportunities for Visionary Academics (NOVA), 2001-2002
- Pathfinders... those who make a difference, UTC Office of Grants and Program Review, 2000-2001, 2001-2002, 2004-2005, 2005-2006
- EDO rating of Exceptional Merit, 2000-2001
- Service Award, Eisenhower Regional Consortium for Mathematics and Science Education at AEL, 2000
- EDO rating of Exceptional Merit, 1999-2000
- EDO rating of Exceptional Merit, 1998-1999
- Granted Tenure, 1999
- EDO rating of Exceptional Merit, 1997-1998
- Promoted to the rank of Associate Professor, 1998
- Student Government Association Outstanding Professor Award, UTC, 1998

Recognition of Scholarship, UTC Office of Grants and Research, 1996
 UC Foundation Professorship, 1996
 Recognized faculty, Outstanding Senior Awards, UTC, 1996, 1997, 2006
 UTC Student Alumni Council favorite faculty and staff reception, 1994
 Tandy Technology Teacher for Maur Hill Prep School, 1991
 KSU Stock Market Game, Open Region 3rd place, Spring 1988
 B.S., cum laude
 University of Massachusetts Scholarship, 4 years
 Plymouth Church Scholarship
 Framingham Centennial Belles Scholarship
 National Honor Society of Secondary Schools

Committees:

2010-2012 Elected as 1st Vice-President, Faculty Senate; Chair, Committee on Committees; UTC.
 2010-2011 Chair, SOE Rank, Tenure, and Reappointment Committee, UTC.
 2010-2011 UTC 125th Anniversary Committee; Athletics Subcommittee.
 2010-2011 Emergency Management Steering Committee, Alternate for Dr. Steinberg; UTC.
 2010- UTeaCHattanooga Steering Committee.
 2009-2010 Chair, Faculty Development Committee, UTC.
 2009- Strategic Plan Research and Engagement Advisory Committee.
 2008-2009 Chair, TPA Rank, Tenure, and Reappointment Committee, UTC.
 2008-2012 Elected to Faculty Senate, UTC.
 2008-2009 Partnerships for Education and Research, Strategic Planning Implementation Committee of the University Planning and Resources Advisory Council, UTC.
 2008 Grants and Research Advisory Group, UTC.
 2007 GSD Online Programs Committee, UTC.
 2007-2010 Faculty Development Committee, UTC.
 2007 Tennessee Mathematics Standards Revision Team, Nashville, TN.
 2007 University Distinctiveness Task Force, UTC.
 2006-2009 Chair, CHEPS Curriculum Committee, UTC.
 2006-2007 Chair, Speakers and Special Events Committee, UTC.
 2006-2007 State Residential Mathematics and Science High School, Knoxville, TN.
 2006-2007 State P-16 Council's Mathematics Curriculum Alignment Committee, Nashville, TN.
 2006- School Task Force, Creative Discovery Museum, Chattanooga, TN.
 2005-2006 Chair, TPA Rank, Tenure, and Reappointment Committee.
 2004-2006 TVA/Battle Academy golf tournament planning committee, UTC representative.
 2004-2011 Scholarships Committee, UTC.
 2004-2007 Speakers and Special Events Committee, UTC.
 2004 Early Childhood Education Search Committee, Chair, TPA.
 2003-2004 Honors Program Advisory Committee, UTC.
 2003-2009 GSD/TPA M.Ed. Committee, UTC.
 2003 Multimedia/EDO Committee, UTC.
 2002-2004 IT Advisory Committee, UTC.
 2002-2003 Technology Planning Task Force, UTC.
 2002-2004 UTC representative to UT system-wide Faculty and Student Council.
 2002-2004 Chair, Classroom Technology Committee, UTC.
 2002 Secondary Science Education Search Committee, Chair, TPA.
 2001-2002 Chair, Faculty Council Ad Hoc Committee on EDO/EDE Review
 2001-2002 TPA Interview sub-committee.
 2001-2003 Classroom Technology Committee, UTC.
 2001-2003 Faculty Research Committee, UTC.
 2001-2002 Committee on Committees, UTC.
 2001-2003 Elected to Faculty Council, UTC.
 2001-2002 Urban Planning, Budgeting and Evaluation Committee, UTC.
 2001 TPA Advisement sub-committee.
 2001 Science Education Search Committee, Chair, TPA.
 2000-2001 Speakers and Special Events Committee, UTC.
 1999-2000 Elementary and Secondary M. Ed. program planning/revision, CEAPS.
 1999- TPA Rank, Tenure, and Reappointment Committee.
 1999-2000 NCATE 2000 Library/Technology Resources/Governance Subcommittee, CEAPS.
 1999-2000 Faculty Research Committee, UTC.

- 1999 Committee to develop recommendations for faculty rewards for outstanding performance, UTC.
- 1999-2000 NCATE 2000 Category I - Programs Subcommittee, CEAPS.
- 1999 Eco-Island Task Force, Moccasin Bend Girl Scout Council.
- 1999 Hawk Talk Volunteer, Kansas Alumni Association mentors for KU students, University of Kansas.
- 1999-2001 Undergraduate Program subcommittee of the Steering Committee for UTC's self-study in preparation for accreditation by the Southern Association of Colleges and Schools (SACS).
- 1998 Public Service Award selection committee, UTC.
- 1998-2000 Banner 2000 Academic Policy Committee, UTC.
- 1998-2000 Back on the Academic Track (BOAT), UTC.
- 1998-1999 EdS technology concentration implementation team, CEAPS.
- 1998-1999 Elected as 2nd Vice-President, Faculty Council; Chair, Handbook Committee; UTC.
- 1998-2000 Elected to Faculty Council, UTC.
- 1998-2000 Appointed to Mutual Ministries Committee, Trinity Lutheran Church.
- 1998 Help Desk Customer Council, UTC.
- 1997-2000 Banner 2000 implementation team, policy group, UTC.
- 1997-1998 TPA Middle School Curriculum Committee, UTC.
- 1997-2001 University Technology Committee, UTC.
- 1997-1998 Technology Innovation Fund Committee, UTC.
- 1997-1998 Strategic Planning Committee Representative, Student Selection and Services, CEAPS.
- 1997-1998 Petitions Committee, UTC.
- 1997 Communication and Information Processing discussion group for General Education, UTC.
- 1996-1998 Chair, Classroom Technology Committee, UTC.
- 1996- Tennessee Education Network UTC TEN Account Coordinator for the TN Dept. of Education.
- 1996-1999 Faculty Handbook Committee, UTC.
- 1996-1998 Elected to Faculty Council, UTC.
- 1996 Educational Leadership planning group, CEAPS.
- 1996 ConnectTEN UTC lead trainer for the Tennessee State Department of Education.
- 1995 ConnectTEN Internet planning team for the Tennessee State Department of Education.
- 1995 Communications Committee, CEAPS NCATE/SDE Site Evaluation Visit.
- 1995-1996 EdS, technology concentration, program development, CEAPS.
- 1995-1997 SHADES event planning group, Moccasin Bend Girl Scout Council.
- 1995-1996 World Wide Web home page design, CEAPS.
- 1994-1995 Computer use subcommittee, Professional Development Task Force, CEAPS.
- 1994-1995 TERPI Clean-up, Teacher Preparation Academy.
- 1994-1997 Information Resources Coordinating Council, UTC.
- 1994-1998 Classroom Technology Committee, UTC.
- 1994-1995 Faculty mentor, UTC Athletics Dept.
- 1994- Math and Science Task Force, Moccasin Bend Girl Scout Council.
- 1994-1995 Technology Task Force, CEAPS.
- 1994 Graduate Program Leading to Initial Certification, CEAPS.

University Level Service and Miscellaneous:

- 2011 First Year Reading Experience, discussion leader for student group for the book, *The Boy Who Harnessed the Wind*.
- 2011 Participated in Algebra discussion at Chattanooga School for the Arts and Sciences.
- 2009 Senior Project Evaluator, Chattanooga School for the Arts and Sciences.
- 2008-2009 Correlation of Tennessee mathematics standards to mathematics skills for Danica McKellar's two books (correlation is online).
- 2008 Presented 1-day professional development session, Numeracy Concepts and Skills, for K-2 teachers, Bledsoe County.
- 2007 Prepared activities for, and assisted with, Family Math Night, Ringgold Middle School, GA (fall).
- 2006 Prepared activities for, and secondary mathematics student assisted with, Family Math Fun Night, Ringgold Middle School, GA (fall).
- 2006 Prepared activities for, and elementary mathematics students assisted with, Family Math Fun Night, Ringgold Middle School, GA (spring).
- 2006 Science fair judge, Lookout Valley High School.
- 2006 Presented an activity for One Book, One School, Ringgold Middle School, GA.
- 2006 Elementary mathematics students assisted with Family Math Night, Bess T. Shepard Elementary School.
- 2004-2010 Faculty Marshal for Commencement, Chancellor's Installation, Student Honors Day.
- 2002 Textbook review, Merrill/Prentice-Hall, Columbus, OH.
- 2002 Paper Evaluator, Graduate Research Day, UTC.
- 2002 Professor in Residence, Central High School and Brown Middle School, Chattanooga, TN.
- 2001-2002 Science fair judge, The Lutheran School.

- 2001 Professor in Residence, Tyner Academy and Tyner Middle Academy, Chattanooga, TN.
- 1999-2000 INTASC/ETS field testing of Test for Teaching Knowledge.
- 1998 Textbook review, McGraw-Hill College Division, Boston, MA.
- 1998-2000 Professor in Residence, Hunter Middle School, Ooltewah, TN.
- 1997 Science fair judge, Chattanooga Phoenix School Two.
- 1996-2004 Assistant Marshal for Commencement.
- 1996-1997 Secondary science students assisted with the SHADES event, Moccasin Bend Girl Scout Council.
- 1996-1997 Secondary science students judged at the Girls Preparatory School science fair.
- 1995 Science Concepts and Perspectives students presented the outreach program Swamp Things for the Tennessee Aquarium.
- 1995 SACS evaluation team, Howard School of Academics and Technology.
- 1994-1995 Science Concepts and Perspectives students presented the outreach program Kitchen Chemistry for the Creative Discovery Museum.
- 1994 Secondary science students ran two activities at the regional science olympiad.
- 1993 Habitat for Humanity, UTC.
- 1996-1999 Habitat for Humanity, Trinity Lutheran Church.
- 1993- Attendance at UTC and area special events, including programs, and speakers.
- 1993- Support of UTC student activities, including communications, music, and athletics.
- 1993 Sponsored USD IdeaFest project for enhancing undergraduate student research.
- 1992-1993 KSU Stock Market Game participant, Open Region.

Other Employment Experience:

- U.S. Postal Service, Framingham, MA (five summers, 1975-1979)
- New England Regional Primate Research Center, Southborough, MA (summer 1978, winter 1979)
- University of Massachusetts Zoology Dept. (fall 1978)
- University of Massachusetts Music Dept., Band Staff (1976-1978)
- University of Massachusetts Library (fall 1975)

Involvement with Student Activities at the Secondary Level:

- Computer programming team sponsor, 1986-1992
 - Programming contests attended:
 - Northwest Missouri State University, Maryville, MO, 1986-1992
 - Fort Hays State University, Hays, KS, 1988-1991
 - team: 1st place (1991), 3rd place (1988)
 - individual project: 1st place (2, 1991), 2nd place (1988)
 - Rockhurst College, Kansas City, MO, 1988-1990
 - Ottawa University, Ottawa, KS, 1990
 - Mid-America Regional Science and Engineering Fair:
 - Missouri Western State College, St. Joseph, MO, 1991-1992
 - honorable mention medal, 1992
 - 3rd place and honorable mention medals, 1991
 - best project for Atchison County, KS, 1991, 1992
- KSU Stock Market Game sponsor, 1983-1992
 - Fall 1990, Lawrence Region 1st and 3rd places
 - Fall 1988, Lawrence Region 1st place
 - Spring 1988, Lawrence Region 3rd place, awards banquet
 - Fall 1986, Lawrence Region 3rd place
 - Spring 1986, Lawrence Region 3rd place, awards banquet
- Computer club sponsor, 1990-1992
- Atchison Applenet, 1990-1991
- Forensics tournament judge, 1992
- Journalism computer workshop, 1990
- Douglas County Science Fair judge, 1989, 1991-1992
- EFL computer workshops, 1987
- Junior class sponsor, 1983-1992
 - Activities: prom, football raffle, candy sale
- Senior class sponsor, 1981-1983
 - Activities: senior trip, chili supper, raffle
- KSU Engineering Open House, 1984
- KSU Career Day, 1982