

Mary Margaret Capraro

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Education

- 1997 -2000 University of Southern Mississippi Hattiesburg, MS
Doctor of Philosophy - Curriculum and Instruction emphasis in
Mathematics Education, Minor in Research and Statistics
- 1991 - 1993 University of Miami. Miami, FL
Educational Specialist- Mathematics and Science Resource Training
- 1973 - 1975 University of Miami. Miami, FL
Master of Science- Administration and Supervision
- 1967 - 1971 Barry University. Miami, FL
Bachelor of Art- English with Elementary Education Minor

Employment History

- 2007- present **Assistant Professor**, Texas A & M University
- 2006 – 2007 **Clinical Associate Professor**, Texas A & M University
- 2000 – 2006 **Clinical Assistant Professor**, Texas A & M University
- Integrated Mathematics and Science Methods
 - Liaison for PDS: Bryan Independent School District
 - Integrated Methods Block Team Leader
 - Graduate Program Secondary Math Methods (Post Baccalaureate)
 - Project Coordinator for *Improving Mathematics Teacher Practice and Student Learning through Professional Development* (NSF Grant)
- 1999- 2000 University of Southern Mississippi Hattiesburg, MS
Graduate Assistant
- Hall Director with the Department of Residence Life
- 1994- 1997 Florida International University Miami, FL
Adjunct Professor
- Mathematics Methods for Elementary Teachers
- 1986 - 1999 Miami-Dade County Public Schools Miami, FL
Assistant Principal
- In charge of curriculum, testing, finances and behavior management
- 1971 - 1986 Miami-Dade County Public Schools
Teacher
- Grades K-6. Vocational, Adult, and ESOL

Publications

Peer Reviewed

1. ***Capraro, M. M.**, Capraro, R. M., Yetkiner, Z. E., Rangel-Chavez, A. F., & Lewis, C. W. (2010, August, in Press). Examining Hispanic-students mathematics performance on high-stakes tests: An examination of one urban school district in Colorado. *Urban Review*, 42(3).
2. **Roundtree, R., & **Capraro, M. M.** (2010, Spring, in Press). Understanding and aiding students' perceptions of algebraic inequalities. *Texas Mathematics Teacher*.
3. **Capraro, M. M.**, & **Belliston, A. (2010, Spring, in Press). Middle school preservice teachers' notions of representativeness: A replication study. *Tennessee Association of Middle School Journal*.
4. Ye, S., Kulm, G., & **Capraro, M. M.** (2009, December, in Press). Middle grade teachers' use of textbooks and their classroom instruction. *Journal of Mathematics Education*.
5. **Capraro, M. M.**, Capraro, R. M., & Helfeldt, J. (2009, in Press). Do differing types of field experiences make a difference in teacher candidates' perceived level of competence? *Teacher Education Quarterly*, 35,
6. *Piccolo, D., **Capraro, M. M.**, & Capraro, R. M. (2009, in Press). Mentoring urban interns: *Amalgamation of experiences in the formation of mathematics teachers*. *The Teacher Educator*, 45(1).
7. Capraro, R. M., & **Capraro, M. M.** (2009). Quantitative reporting practices in middle-grades research journals: Lessons to learn. *Middle Grades Research Journal*, 4(2), 1-10.
8. *Yetkiner, Z. E., & **Capraro, M. M.** (2009). *Middle school mathematics teachers' knowledge for teaching fractions*. Retrieved January 27, 2009, from <http://www.nmsa.org/Research/ResearchSummaries/TeachingFractions/tabid/1866/Default.aspx>
9. *Piccolo, D., Carter, T., Harbaugh, A., **Capraro, M. M.**, & Capraro, R. M. (2008). Quality of instruction: Examining discourse in middle school mathematics instruction. *Journal of Advanced Academics*, 19, 376-410.
10. Zientek, L., **Capraro, M. M.** & Capraro, R. M. (2008). Reporting practices in quantitative teacher education research: One look at the evidence cited in the AERA panel report. *Educational Researcher*, 37(4), 208-216.
11. Li, X., Ding M., **Capraro, M. M.**, & Capraro, R. M. (2008). Sources of differences in children's understandings of mathematical equality: Comparative analysis of teacher guides and student texts in China and in the United States. *Cognition and Instruction*, 26, 195-217.
12. Helfeldt, J., Capraro, R. M., **Capraro, M. M.**, Foster, E. S., & Carter, N. (2009) An urban schools-university partnership that prepares and retains quality teachers for "high need" schools. *The Teacher Educator*, 44(1), 1-20.
13. Slate, J. R., **Capraro, M. M.**, & Onwuegbuzie, A. J. (2007). Students' stories of their best and poorest K-5 teachers: A mixed data analysis. *Journal of Educational Research & Policy Studies*, 7(2), 53-79.

14. *Capraro, R. M., **Capraro, M. M.**, Ding, M., & Li, X. (2007). Thirty years of research: Current interpretations of the equal sign. *Psychological Reports*, 101, 784-86.
15. Capraro, R. M., & **Capraro, M. M.** (2007). Pedagogy and curriculum: Antithetical constructs or a nexus in mathematics education? *Journal of Curriculum and Pedagogy*, 4(1), 34-39.
16. Kulm, G., Capraro, R. M., & **Capraro, M. M.** (2007). Teaching and learning middle grades mathematics with understanding. *Middle Grades Research Journal*, 2, 23-48.
17. ***Capraro, M. M.**, Ding, S., Matteson, S., Li, X., & Capraro, R. M. (2007). Representational implications for understanding equivalence. *School Science and Mathematics Journal*, 107, 86-88.
18. **Capraro, M. M.** (2006) Teaching portfolios: Technology skills + portfolio development: Do they = powerful preservice teachers? *Teacher Education and Practice*, 19, 380-390.
19. ****Capraro, M. M.**, & Joffrian, H. (2006). Algebraic equations: Can middle-school students meaningfully translate from words to mathematical symbols? *Reading Psychology*, 27, 147 – 164.
20. Capraro, R. M., & **Capraro, M. M.** (2006). Are you really going to read us a story? Learning geometry through children’s mathematics literature. *Reading Psychology* 27, 21-36.
21. **Capraro, M. M.** (2005). Introduction to confidence intervals for both statistical estimates and effect sizes. *Research in the Schools*, 12(2), 13 – 23.
22. Capraro, R. M., **Capraro, M. M.**, Parker, D., Kulm, G., & Raulerson, T. (2005). The mathematics content knowledge role in developing preservice teachers’ pedagogical content knowledge. *Journal for Research in Childhood. Education*, 20, 108-124.
23. **Capraro, M. M.**, Kulm, G., & Capraro, R. M. (2005). Middle grades: Misconceptions in statistical thinking. *School Science and Mathematics Journal*, 105, 165-174.
24. **Capraro, M.M.** (2005). A more parsimonious mathematics beliefs scales. *Academic Exchange Quarterly*, 9(3), 83-89.
25. Henson, R., Capraro, R. M., & **Capraro, M. M.** (2004). Reporting practice and use of exploratory factor analysis in educational research journals. *Research in the Schools*, 11(2), 61-72.
26. **Capraro, M. M.** (2003). Measure for measure. *Illinois Mathematics Journal*, 54(1), 3-5.
27. **Capraro, M. M.** (2003). Measuring with nonstandard units. *Wisconsin Teachers of Mathematics Journal*, 54(1), 7-10.
28. **Capraro, M. M.**, & Capraro, R. M. (2003). Exploring the impact of the new APA 5th edition publication manual on the preferences of journal board members. *Educational and Psychological Measurement*, 63, 554-565.
29. **Capraro, M. M.** (2003). Tired of using worksheets? *Texas Mathematics Teacher*, 45 (1), 9-11.
30. **Capraro, M. M.** (2002). Defining constructivism: Its influence on the problem solving skills of students. *Educational Technology Research and Development*, 50(4), 97.
31. Capraro, R. M., & **Capraro, M. M.** (2002). Treatment of effect sizes and statistical significance tests in textbooks. *Educational and Psychological Measurement*, 62, 771-782.

32. Capraro, R. M., & **Capraro, M. M.** (2002). Myers-Briggs type indicator score reliability across studies: A meta-analytic approach. *Educational and Psychological Measurement*, 62, 590-602.
33. **Capraro, M. M.**, Capraro, R. M., & Henson, R. (2001). Measurement error of scores on the mathematics anxiety rating scale across studies. *Educational and Psychological Measurement*, 61, 373-386.
34. **Capraro, M. M.**, & Capraro, R. M. (2001). Bigger is not better: Seeking parsimony in canonical correlation analysis via variable deletion strategies. *Multiple Linear Regression Viewpoints*, 27(2), 24-33.
35. Capraro, R. M., & **Capraro M. M.** (2001). Commonality analysis: Understanding variance contributions to overall canonical correlation effects of attitude toward mathematics on geometry achievement. *Multiple Linear Regression Viewpoints*, 27(2), 16-23.

Peer-Reviewed Proceedings

1. **Capraro, M. M.**, Capraro, R. M., Harbaugh, A., Cifarelli, V., Pugalee, D., & Lamm, M. (2009). Developing proportional reasoning across ideas of equality. In J. Novotna & H. Moraova (Eds.), *Proceedings of the International Symposium Elementary Mathematics Teaching* (pp.267-269). Prague, Czech Republic: Charles University.
2. ***Capraro, M. M.**, Rangel-Chavez, A., & Capraro, R. M. (2008). Effective preparation for teaching of algebra at the primary level. *Proceedings of the 11th meeting of the International Congress on Mathematical Education*. Monterrey, México.
3. **Capraro, M. M.**, Capraro, R. M., & Cifarelli, V. V. (2007). *What are students thinking as they solve open-ended mathematics problems?* In D. K. Pugalee, A. Rogerson, & A. Schnick (Eds.), *Proceedings of the ninth international conference of Mathematics Education in a Global Community* (pp. 124-128). Charlotte, NC: The University of North Carolina.
4. **Capraro, R. M., Kulm, G., Hammer, M., & **Capraro, M. M.** (2002). The origin and persistence of misconceptions in statistical thinking. In D. S. Mewborn, P. Sztajn, D. Y. White, H. G. Wiegel, R. L. Bryant, & K. Nooney (Eds.), *Proceedings of the twenty-fourth annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education*. (Vol. 3. pp. 1339-1340). Columbus, OH: ERIC Clearinghouse for Science, Mathematics, and Environmental Education.

Books, Chapters, and Research Reports

1. Capraro, R. M., **Capraro, M. M.**, Morgan, J., & Scheurich, J. (Eds.). (2010). *A companion to interdisciplinary STEM project based learning: For teachers by teachers*. Rotterdam, The Netherlands: Sense.
2. ***Cetiner, N., & **Capraro, M. M.** (2010). Selling handmade items in a Turkish school kermes (Chapter 24). In R. M. Capraro, M. M. Capraro, J. Morgan, & J. Scheurich (Eds.), *A companion to interdisciplinary STEM project-based learning: For teachers by teachers*, pp. XX. Rotterdam, The Netherlands: Sense

3. Boyd, D., & **Capraro, M. M.** (2010). Where do earthquakes occur? (Chapter 1). In R. M. Capraro, M. M. Capraro, J. Morgan, & J. Scheurich (Eds.), *A companion to interdisciplinary STEM project-based learning: For teachers by teachers*, pp. XX. Rotterdam, The Netherlands: Sense.
4. Paul, W., & **Capraro, M. M.** (2010). The depression now and then (Chapter 13). In R. M. Capraro, M. M. Capraro, J. Morgan, & J. Scheurich (Eds.), *A companion to interdisciplinary STEM project-based learning: For teachers by teachers*, pp. XX. Rotterdam, The Netherlands: Sense.
5. **Capraro, M. M.** (2008). Interdisciplinary STEM project-based learning (p. 91-102). In R. M. Capraro & S. W. Slough (Eds.), *Project-based learning: An integrated science, technology, engineering, and mathematics (STEM) approach*. Rotterdam, The Netherlands: Sense.
6. ****Capraro, M. M.**, English, S., Fisseler, S., Matteson, S., Grimi, E., Kotara, D., & Rangel, A. (2008). Looking into middle school mathematics classrooms: Lessons learned from research (pp. 287-309). In G. Kulm (Ed.), *Teacher knowledge and practice in middle grades mathematics*. Rotterdam, The Netherlands: Sense.
7. **Capraro, M. M.** (2006). Variable deletion. In N. J. Salkind (Ed.), *The encyclopedia of measurement statistics*. Thousand Oaks, CA: Sage.
8. **Capraro, M. M.** (2006). Confidence intervals. In N. J. Salkind (Ed.), *The encyclopedia of measurement statistics*. Thousand Oaks, CA: Sage.

Non-Peer Reviewed

1. ****Capraro, R. M., Capraro, M. M., Dighans, K., & Hammer, M.** (2002). *A revision protocol design: Item revision and impact analysis report*. Texas A & M University, Teaching, Learning, and Culture.
2. Capraro, R. M., & **Capraro, M. M.** (2000). *An investigation of the effects gender, socioeconomic status, race, and grades on standardized test scores?* (ERIC Document Reproduction Service No. ED444867)
3. Capraro, R. M., & **Capraro, M. M.** (1998). *Teacher Talk*. In Middle School Mathematics, Course 1 and Course 3. Chicago, IL: Scott Foresman-Addison Wesley:

Submitted or Under Revision

- Capraro, M. M.**, Capraro, R. M., & Cifarelli, V. (2008). Comparing pre-service teachers' open-ended problem solving in a web-assisted class. (Under revision for submission to *Educational Studies in Mathematics*).
- Ding, M, Li, X, **Capraro, M. M.**, & Kulm, G. (2009) A case study of teacher responses to doubling error and difficulty in learning equivalent fractions. (Revised and resubmitted to the *Journal of Mathematics Teacher Education- 11/09, JMTE581*).
- Capraro, M. M.**, Capraro, R. M., Carter, T., & Harbaugh, A. (2008) Questioning, curiosity, and representing: What makes a difference mathematically? (Manuscript submitted to *The Teacher Educator, 8/09, UTTE-2009-0043*)
- *Matteson, S., Capraro, **M. M.**, **Capraro, R. M.**, & Lincoln, Y. S. (2008). Extricating justification scheme theory in middle school problem solving (Manuscript submitted to *Mathematical Thinking and Learning, 10/09; MTL-D-09-00068*).

- Capraro, M. M.** (2008). The tensions influencing the opportunity to learn about equivalence among border-town primary students. (Submitted to *Journal of Urban Mathematics Education*, 6/09; under revision for 10/09).
- *Capraro, R. M., Özel, S., **Capraro, M. M.**, Yetkiner, Z. E., Kim, H. G., & Küçük, A. R. (2008). *An international comparison of the equal sign: An update*. (Revised for publication in *Psychological Reports*, submitted 9/09).
- Capraro, M. M.**, & Capraro, R. M. (2009). Numeracy and algebra: Path to full participation in communities and benefits to society in general. Manuscript submitted for special edition of *Reading Psychology* edited by L. Burlbaw).
- *Capraro, R. M., Yetkiner, Z. E., Özel, S., Corlu, M. S., **Capraro, M. M.**, Ye, S., & Kim, H. G. (2009). *An international perspective on students' understanding of the equal sign*. (Under revision for ESJ; 5/09;09/09 ms#2086 – resubmitted 9/09).
- Capraro, R. M., Rupley, W., Slough, S. & **Capraro, M. M.** (2009). *Theorizing an integration of reading and mathematics model: Using cognitive strategies to solve verbal mathematics problems*. (Under revision for JLR, MS# 09-282R 1/09; 09/09).
- **Kilgore, K., & **Capraro M. M.** (2009). Teaching factorization with Smartboard technology. (Submitted to *For the Learning of Mathematics Journal* – 10/09 – MS#FLM9J082).
- *An, S., Ma, T., & **Capraro, M. M.** (2009). Changing prospective teachers' beliefs and attitude about teaching and learning mathematics through music: An intervention study. (Submitted to *School Science and Mathematics*, 6/09; revisioed and resubmitted 9/09).

Work in Progress

- Capraro, R. M., **Capraro, M. M.**, & Helfeldt, J. (2009). Contrasting views on the principal's role for establishing a mentoring program. (Working on for submission to *Education Administration Quarterly*).
- Capraro, M. M.**, Helfeldt, J., & Capraro, R. M. (2009). Retaining teachers in urban schools after an internship (Working on for submission to *Education and Urban Society*).
- Capraro, R. M., Willson, V. L., **Capraro, M. M.**, & Wilson, L. (2009). *Effects of curriculum variation on structure in middle school mathematics*.
- Kieffer, K., **Capraro, M. M.**, Capraro, R. M., & Law, T. (2009). *Follow up to the Myers-Briggs type indicator score reliability across studies: A meta-analytic approach*.
- Capraro, R. M., **Capraro, M. M.**, Rupley, W., & Slough, S. (2009). *Reading enhanced problem solving (REPS): A theoretical model*. Manuscript in preparation for JRCE.
- (co-authored with *Doctoral, **Master's, ***Undergraduate students)

Professional Activities and Memberships

- Texas Council of Teachers of Mathematics
- Kappa Delta Pi Educational Honor Society
- National Council of Teachers of Mathematics
- School Science and Mathematics Association

- Research Council on Mathematics Learning
- American Mathematics Teacher Educators
- Southwest Educational Research Association, President
- American Educational Research Association

Advanced Training and Preparation

- 2008 **Agile Mind** in Austin Texas
- 2008 **The Qualitative Analysis of Video: Using Video and Audio as a Data Source**
AERA Workshop, New York City presented by David Woods and Kay Uchiyama.
- 2007 **Virtual Online Instructor Certification.** Texas A & M Center for Distance Learning presented by Melissa Magnussen
- 2007 **Mixed Methods Data Analysis.** Southwest Educational Research Association presented by Anthony Onwuegbuzie and John Slate.
- 2006 **Qualitative Data Collection and Data Analysis.** Texas A&M University. Presented by Yvonna Lincoln.
- 2006 **Quasi-Experimental Design Workshop.** Northwestern University. Co-Sponsored by Spencer Foundation and Department of Education presented by Thomas D. Cook and William Shadish.
- 2006 **Hierarchical Linear Modeling for Applied Research.** Southwest Educational Research Association presented by Tasha Beretvas and Kyle Roberts.
- 2006 **Mixed Methods Research Designs and Analysis.** Southwest Educational Research Association presented by Anthony Onwuegbuzie and John Slate.
- 2005 **Introduction to Hierarchical Linear Modeling.** Southwest Educational Research Association presented by Tasha Beretvas and Kyle Roberts.
- 2005 **Factor Analytic Designs in Educational Research.** Southwest Educational Research Association presented by Bruce Thompson.
- 2004 **Using S-PLUS: Basic Statistics to Simulations.** American Educational Research Association presented by Randall E. Schumacker and J. Kyle Roberts.
- 2004 **Structural Equation Modeling Faculty Collaborative.** Texas A&M University presented by Victor Willson
- 2000-2002 **Faculty Statistics Refresher.** Texas A&M University presented by Bruce Thompson

Presentations

National

1. Schorr, R., Epstein, Y., Warner, L., Capraro, R. M., Capraro, M. M., & Goldin, G. (2010, April). *Measuring engagement structures in middle grades urban mathematics classrooms.* Accepted for presentation at the annual meeting of the American Educational Research Association, Denver, CO.
2. Piccolo, D., Capraro, M. M., & Capraro, R. M. (2010, April). *Student teachers, general and specific pedagogical development within a mathematics milieu.* Accepted for

presentation at the annual meeting of the American Educational Research Association, Denver, CO.

3. Capraro, M. M., & Capraro, R. M. (2009, October). *STEM project-based learning: An interactive motivational strategy for bridging content across classes*. Poster presented at the annual meeting of the School Science and Mathematics Association. Reno, NV.
4. Capraro, M. M. (2009, November). *Teaching fractions in middle grades mathematics*. In symposium M. Caskey, Spotlight on research at the 36th annual conference of the National Middle School Association. Indianapolis, IN.
5. Capraro, R. M., & Capraro, M. M. (2009, March). *NTSTEM (North Texas science, technology, engineering, and mathematics center)*. Paper presented at the US Department of Education's Mathematics and Science Partnerships (MSP) Program, Chicago.
6. Piccolo, D., Capraro, M. M., & Capraro, R. M. (2009, April). *Mentoring urban interns: Amalgamation of experiences in the formation of mathematics teachers*. Presented at the annual meeting of the American Educational Research Association, San Diego, CA.
7. *Capraro, M. M., Yetkiner, E., Ozel, S. Capraro, R., Ye, S., & Kim, H. (2009, April). *An international perspective on sixth graders' interpretation of the equal sign*. Presented at the annual meeting of the American Educational Research Association, San Diego, CA.
8. Capraro, M. M., (2008, October). *Publishing in SSMJ*. Session in *Pathways to publication* Symposium. Presented at the National Middle School Conference, Denver, CO.
9. *Capraro, M. M., Rangel-Chavez, A. F., & Capraro, R. M. (2008, July). *Effective preparation for teaching of algebra at the primary level*. Presented at the 32nd Conference of the International Group for the Psychology of Mathematics Education, Monterrey, Mexico.
10. Zientek, L., Capraro, M. M., & Capraro, R. M. (2008, April). *Teacher education: A historical investigation of reporting practices*. In symposium with B. Thompson, T. Onwuegbuzie, J. Slate, E. Fuller, B. Berry, & K. Fries. Presented at the annual meeting of the American Educational Research Association, New York.
11. *Ding, M., Li, X., Capraro, M., & Kulm, G. (2008, April). *A case study of teacher responses to doubling error and difficulty in learning equivalent fractions*. Presented at the annual meeting of the American Educational Research Association, New York.
12. Slate, J. Capraro, M. M., & Onwuegbuzie, A. J. (2008, April). *Students' stories of their best and poorest K-5 teachers: A mixed data analysis*. Presented at the annual meeting of the American Educational Research Association, New York.
13. *Capraro, R. M., Capraro, M. M., Zientek, L. R., Carter, T., & Taylor, J. (2007, November). *Prospective teachers' attitudes and understandings of statistical concepts*. Paper presented at the annual meeting of the School Science and Mathematics Association, Indianapolis, IN.
14. *Matteson, S., Capraro, R. M., Capraro, M. M., & Lincoln, Y. (2007, November). *Developing a framework for middle school students' problem solving justification schemes*. Paper presented at the annual meeting of the School Science and Mathematics Association, Indianapolis, IN.

15. Capraro, M. M., Capraro, R. M., & Cifarelli, V. (2007, September). *What are students thinking as they solve problems?* Paper presented at the annual meeting of the International Conference for Mathematics Education in a Global Community, Charlotte, NC.
16. Capraro, M. M. (2007, April). Do field experiences make a difference in preservice teachers' perceived level of competence? Session in E. Foster (Chair). *Impact of mentor training on perceptions of competence and pre-service/in-service mentors and administrators*. Symposium at the annual meeting of the American Educational Research Association. Chicago, IL.
- 17.*Capraro, M. M. (2007, March). *Comparing ideas of equivalence cross-culturally*. Session in S. Matteson (Chair). *≥ to 30 years of research on the equals sign*. with C. Lubinski. A. Otto (Illinois State University), E. Knuth (University of Wisconsin-Madison), Symposium presented at the research pre-session of the 85th annual meeting of the National Council of Teachers of Mathematics, Atlanta, GA.
- 18.*Ding, M., Li, X., Capraro, M. M., & Capraro, R. M. (2007, March). *Do elementary children still interpret the "=" sign as an operator?* Presented at the research pre-session of the 85th annual meeting of the National Council of Teachers of Mathematics, Atlanta, GA.
- 19.*Capraro, M. M., Cifarelli, V., Capraro, R., & Zientek, L. (2006, October). *What are students really thinking as they solve two types of problems?* Presented at the annual conference of School Science and Mathematics, Missoula, MT.
- 20.*Capraro, R. M., Capraro, M. M., Harbaugh, A., Carter, T. A., & Piccolo, D. (2006, April). *Rich mathematics classroom conversations: What are middle-school teachers and students actually saying?* Paper presented at the annual meeting of the American Educational Research Association, San Francisco, CA.
21. Capraro, R. M., & Capraro, M. M. (2006, April). *Underlying structures of mathematical representation: A theoretical perspective*. Paper presented at the annual meeting of the American Educational Research Association, San Francisco, CA.
- 22.*Zientek, L., Capraro, R. M., & Capraro, M. M. (2006, April). *Research findings and issues for alternative certification routes and influences of recent federal legislation*. Paper presented at the annual meeting of the American Educational Research Association, San Francisco, CA.
- 23.*Capraro, R. M., Capraro, M. M., Harbaugh, A., Carter, T. A., & Piccolo, D. (2006, April). *Meaningful discourse in middle-school: Linking research to practice*. Paper presented at the research pre-session of the 84th annual meeting of the National Council of Teachers of Mathematics, St. Louis, MO.
24. Capraro, M. M., Willson, V., Capraro, R. M., & Kulm, G. (2006). *Professional development by curriculum differences on student achievement*. Paper presented at the research pre-session of the 84th annual meeting of the National Council of Teachers of Mathematics, St. Louis, MO.
25. *Capraro, R. M., Littlefield-Cook, J., Carter, T., Capraro, M. M., Matteson, S., & Lager, C. (2006, February). *Mathematical fluency*. Paper presented at the annual meeting of the Research Council on Mathematics Learning, Las Vegas, NV.
26. ***Hollums, J., & Capraro, M. M. (2006). *Questioning in the mathematics classroom*. Paper presented at the annual meeting of the Research Council on Mathematics Learning, Las Vegas, NV.

27. Capraro, M. M., & Capraro, R. M., (2006, January). *Examining middle school teachers' knowledge of number and algebra*. Paper presented at the annual meeting of the Association of Mathematics Teacher Educators, Tampa, FL.
- 28.*Capraro, M. M., Capraro, R. M., & Piccolo, D. (2005, November). *What makes Tigger a tiger? (and not a leopard)*. Paper presented at the annual meeting of School Science and Mathematics Association, Fort Worth, TX.
29. **Capraro, R. M., Capraro, M. M., Naiser, E. A., Carter, T., Harbaugh, A., & Romero, C. T. (2005, April). *Using middle grades student achievement data to support theoretical teacher quality measures*. Paper presented at the research pre-session of the National Council of Teachers of Mathematics, Anaheim, CA
- 30.*Kulm, G., Capraro, M. M., Carter, T., Li, X., Sahin, A., You, Z., Zientek, L., English, S., & Jones, C. (2005, April). *How do students in the middle grades represent data?* Paper presented at the 83rd annual meeting of the National Council of Teachers of Mathematics, Anaheim, CA.
- 31.*Capraro, M. M., Capraro, R. M., & Zientek, L. (2005, February). *Longitudinal influences of conceptual mathematics on teacher classroom enactments*. Paper presented at the annual meeting of the Association of Mathematics Teacher Educators, Dallas, TX.
- 32.Capraro, R. M., Willson, V., Capraro, M. M., & Wilson, L. (2004, April). *Effects of curriculum variation on structure in middle school mathematics*. Paper presented at the annual meeting of the American Educational Research Association, San Diego, CA.
- 33.Capraro, M. M., Capraro, R., DeBoer, G., Kulm, G., Manon, J., Morris K., Roseman, J. E., Willson, V., & Wilson L. (2004, April). *Research issues in the improvement of mathematics teaching and learning through professional development*. Paper presented at the annual meeting of the American Educational Research Association, San Diego, CA.
- 34.**Capraro, R. M., Kulm, G., Willson, V., Capraro, M. M., Taylor, J. Sebesta, L., Sun, Y., & Harbaugh, A. (2004, April). *Representational models for the teaching and learning of mathematics*. Paper presented at the research pre-session of the 82nd annual meeting of the National Council of Teachers of Mathematics, Philadelphia, PA.
- 35.Capraro, R. M., & Capraro, M. M. (2004, February). *Looking at representations through the eyes of middle grades students and their teachers*. Paper presented at the annual meeting of the Research Council on Mathematics Learning, Oklahoma City, OK.
- 36.Capraro, M. M., & Capraro, R. M. (2003, April). *Exploring the impact of the new APA 5th edition publication manual on the preferences of journal board members*. Paper presented at the annual meeting of the American Educational Research Association, Chicago, IL.
- 37.Capraro, R. M., & Capraro, M. M. (2003, April). *Revising mathematics assessment items for alignment to curriculum standards*. Paper presented at the annual meeting of the American Educational Research Association. Chicago, IL.
- 38.Allen, N., & Capraro, M. M. (2003, April). *Come play with us: Native American mathematics games*. Workshop presented at the 81st annual meeting of the National Council of Teachers of Mathematics, San. Antonio, TX.

- 39.***Capraro, M. M., & Maloof, C. (2003, April). *Far, far, away: Ride the measurement carpet across the curriculum*. Workshop presented at the 81st annual meeting of the National Council of Teachers of Mathematics, San. Antonio, TX.
- 40.Capraro, M. M. (2003, March). *Geometry standards: A comparison between the United States and China*. Paper presented at the Research Council on Mathematics Learning, Tempe, AZ.
- 41.Capraro, R. M., Capraro, M. M. (2003, January). *Alternative certification: Measuring the impact on post-baccalaureate future mathematics teachers*. Paper presented at the annual meeting of the Association of Mathematics Teacher Educator, . Atlanta, GA.
- 42.Capraro, M. M. (2003, January). *Electronic teaching portfolios: Technology skills + portfolio development = powerful preservice teachers*. Paper presented at the American Association of College Teacher Educators (AACTE), New Orleans, LA.
43. **Capraro, R. M., Kulm, G., Hammer, M., & Capraro, M. M. (2002, October). *The origin and persistence of misconceptions in statistical thinking*. Paper presented at the annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education, Athens, GA.
- 44.Capraro, M. M., Kulm, G., & Capraro, R. M. (2002, October). *Middle grades misconceptions in statistical thinking*. Paper presented at the annual meeting of School Science and Mathematics Association, Rochester, NY.
- 45.Capraro, R. M., Kulm, G., & Capraro, M. M. (2002, April). *Investigating the complexity of middle grade students' understanding of mathematical constructs*. Paper presented at the annual meeting of the American Educational Research Association, New Orleans, LA.
- 46.**Kulm, G., Capraro, R. M., & Capraro, M. M., & Hastings, E. (2002, April). *Increasing student achievement: Building on ideas and promoting thinking about mathematics*. Paper presented at the research pre-session of the 80th annual meeting of the National Council of Teachers of Mathematics, Las Vegas, NV.
- 47.Capraro, R. M., An, S., & Capraro, M. M. (2002, April). *Multicultural math fun - learning with magic squares: Incidentally learning number sense, algebra, & analytical reasoning*. Paper presented at the 80th annual meeting of the National Council of Teachers of Mathematics, Las Vegas, NV.
- 48.Capraro, R. M., Capraro, M. M., & Kulm, G. (2002, March). *Measuring one factor for preservice teachers' propensity toward teaching elementary/middle school mathematics: Pedagogical content knowledge*. Paper presented at the 29th annual meeting of Research Council on Mathematics Learning, Memphis, TN.
- 49.Capraro, R. M., Capraro, M., Parker, D., Kulm, G., & Raulerson, T. (2002, February). *Conventional wisdom is wrong: Anyone cannot teach and teachers are not born*. Paper presented at the American Association for Colleges of Teacher Education, New York, NY.
- 50.Kulm, G., Capraro, R. M., Capraro, M. M., Burghardt, R., & Ford, K. (2001, April). *Teaching and learning mathematics with understanding in an era of accountability and high-stakes testing*. Paper presented at the research pre-session of the 79th annual meeting of the National Council of Teachers of Mathematics, Orlando, FL.

Regional, State, & Local

1. ***Capraro, R. M., Capraro, M. M., Younes, R., Han, S. Y., & Garner, K. (2010, February). *A meta-analysis of equivalence in K-12 textbooks*. Paper to be presented at the 33rd annual meeting of the Southwest Educational Research Association. New Orleans.
2. Scheurich, J., Capraro, R. M., Morgan, J., & Capraro, M. M. (2009, October). *Aggie STEM – A suite of services for educators implementing STEM activities* Paper presented at the annual meeting of the Texas Association of School Administrators and Texas Association of School Boards, Houston, TX.
3. Scheurich, J., Capraro, R. M., Morgan, J., & Capraro, M. M. (2009, October). *The STEM center at Texas A&M university: What can we do for you?* Paper presented at the annual meeting of the Texas Association of School Administrators and Texas Association of School Boards, Houston, TX.
4. Ma, T., Rangel, A. F., & Capraro, M. M. (2009, March). *Exploration of pre-service teachers' beliefs and performances in solving open-ended problems*. Paper presented at the Texas A & M Student Research Week, College Station, TX.
5. Capraro, M. M. (2009, February). *Tensions influencing opportunity to learn about mathematical equivalence*. Presented at the 32nd annual meeting of the Southwest Educational Research Association, San Antonio, TX.
6. *An, S., Ma, T., & Capraro, M. M. (2009, February). *Music activity's effects on preservice math teachers' attitude and belief*. Paper accepted for presentation at the 32nd annual meeting of the Southwest Educational Research Association, San Antonio, TX.
7. *Ma, T., Rangel, A. F., & Capraro, M. M. (2009, February). *How to encourage pre-service teachers to obtain multiple solutions*. Paper accepted for presentation at the 32nd annual meeting of the Southwest Educational Research Association, San Antonio, TX.
8. *Capraro, R. M., Yetkiner, E. Z., Ozel, S., Corlu, S. M., Capraro, M. M., & Kim, H. G. (2009, February). *International comparison of the equal sign*. Presented at the 32nd annual meeting of the Southwest Educational Research Association, San Antonio, TX.
9. *Zientek, L., Yetkiner, Z. E., Capraro, M. M., & Capraro, R. (2008, February). *Reporting practice in teacher education: The importance of structure coefficients*. Paper presented at the 31st annual meeting of the Southwest Educational Research Association, New Orleans, LA.
10. *Parker, D., Donahue, M., Stillisano, J., Capraro, M. M., Goldsby, D., Yetkiner, E., & Capraro, R. M. (2007, November). *Communication and representations*. Presented at the National Council of Teachers of Mathematics regional conference, Houston, TX.
11. *Stillisano, J., Capraro, M. M., Goldsby, D., Parker, D., Yetkiner, Z. E., & Capraro, R. M. (2007, October). *Math TEKS connections*. Presented at the Charles A. Dana Center's annual mathematics and science higher education conference, Austin, TX.
12. *Capraro, M. M. (chair), Matteson, S., Capraro, R. M., Ding, M., & Li, X. (2007, February). *Representational implications for middle grades equivalence*. Symposium presented at the 30th annual meeting of the Southwest Educational Research Association, San Antonio, TX.

13. *Capraro, M. M., Piccolo, D., Ross, A., Sahin, A., Louder, H., & Capraro, R. M. (2006, February). *Using middle grades student achievement data to support theoretical teacher quality measures*. Paper presented at the 29th annual meeting of the Southwest Educational Research Association, Austin, TX.
14. Capraro, R. M., Willson, V., & Capraro, M. M. (2005, February). *Effects of curriculum variation on structure in middle school mathematics*. Paper presented at the Texas A & M College of Education Research Symposium, College Station, TX.
15. Capraro, M. M., & Capraro, R. M. (2005, February). *Persistence of conceptual mathematics teaching*. Paper presented at the 28th annual meeting of the Southwest Educational Research Association, New Orleans, LA.
16. Capraro, M. M. (2004, February). *Professional teaching portfolios and teaching artifacts: Do they provide insightful information about preservice teachers?* Paper presented at the 27th annual meeting of the Southwest Educational Research Association, Dallas, TX.
17. Capraro, M. M. (2003, February). *Using confirmatory factor analysis (CFA) to support the constructs of middle school algebra*. Paper presented at the 26th annual meeting of the Southwest Educational Research Association, San Antonio, TX.
18. Capraro, M. M., Capraro, R. M., & Pederson, S. (2003, February). *Symposium demonstrating multivariate applications using teacher education data*. Symposium presented at the 26th annual meeting of the Southwest Educational Research Association, San Antonio, TX.
19. Capraro, M. (2002, February). *An introduction to confidence intervals for both statistical estimates and effect sizes*. Paper presented at the 25th annual meeting of the Southwest Educational Research Association, Austin, TX.
20. Capraro, R. M., & Capraro, M. (February, 2002). *In light of the TAAS middle school geometry misconceptions*. Workshop presented at Sam Houston University, Huntsville, TX.
21. Capraro, R. M., Capraro, M. M., & Lamb, C. E. (2001, November). *Digital video: Watch me do what I say!* Paper presented at Fall Teacher Education Conference of the Consortium of State Organizations for Texas Teacher Education, Corpus Christi, TX. (ERIC Document Reproduction Service No. ED459697)
22. Henson, R., Capraro, R. M., & Capraro, M. M. (2001, November). *Reporting practice and use of exploratory factor analysis in educational research journals*. Paper presented at the annual meeting of the Mid-South Educational Research Association, Little Rock, AK.
23. Capraro, M. M. (2001, November). *Construct validation and a more parsimonious mathematics beliefs scales*. Paper presented at the annual meeting of the Mid-South Educational Research Association, Little Rock, AK.
24. Capraro, R. M., & Capraro, M. (2001, February). *Displaying data for visual analysis*. Workshop presented at Sam Houston University, Huntsville, TX.
25. Scott, J., Martin, N., Capraro, M. M., & Capraro, R. M. (2001, February). *When the dissertation is finished . . . getting a job in higher education*. Panel Discussion at the annual meeting of the Southwest Educational Research Association, New Orleans, LA.
26. Capraro, M. M., Capraro, R. M., & Henson, R. (2001, February). *Measurement error of scores on the mathematics anxiety rating scale across studies*. Paper

- presented at the annual meeting Southwest Educational Research Association, New Orleans, LA. (ERIC Document Reproduction Service No. ED452207)
27. Capraro, M. M. (2000, November). *Bigger is not better: Seeking parsimony in canonical correlation analysis via variable deletion strategies*. Paper presented at the annual meeting of the Mid-South Educational Research Association. Mobile, AL. (ERIC Document Reproduction Service No. ED449225)
 28. Capraro, M. M. (2000, February). *Defining constructivism: How teacher beliefs influence the problem solving skills of their students*. Paper presented at the annual meeting Southwest Educational Research Association, New Orleans, LA. (ERIC Document Reproduction Service No. ED452204)
 29. Capraro, M. M. (2000, January). *Comparing the effects of gender, socio-economic status, race and grades on standardized test scores*. Paper presented at the annual meeting of the Southwest Educational Research Association. New Orleans, LA. (ERIC Document Reproduction Service No. ED444867)
 30. Capraro, R. M., & Capraro, M. M. (1999, December), *Thematic dinosaur unit using technology*. Presented at the Mississippi Reading Association, Biloxi, MS.
 31. Capraro, R. M., & Capraro, M. M. (1999, July). *Creating a theme: Dinosaurs across reading, mathematics, and science*. Workshop presented at the 60th annual USM Reading Conference, Hattiesburg, MS.
 32. Capraro, R. M., & Capraro, M. M. (1999, July), *Using technology to teach reading and make connections to science, social studies, and mathematics for elementary students*. Workshop presented at the 59th annual USM Reading Conference, Hattiesburg, MS.
 33. Capraro, R. M., & Capraro, M. M. (1998, July). *Meaningfully integrating reading and algebra concepts*. Workshop presented at the 58th annual USM Reading Conference, Hattiesburg, MS.
 34. Capraro, R. M., & Capraro, M. M. (1998, January). *Preparing teachers to teach the sunshine state standards in geometry*. Presented at the Sheridan Vocational School. Broward County Public Schools, Fort Lauderdale, FL.
 35. Capraro, M. M. (1998, January). *Fishy Fish Facts*. Presented at the Dade County Mathematics & Science Conference, Miami, FL.
 36. Capraro, R. M., & Capraro, M. M. (1998, April). *Caution! 2-d, 3-d geometric construction underway!* Presented at the 76th annual meeting of the National Council of Teachers of Mathematics, Washington, DC.
 37. Capraro, R. M., & Capraro, M. M. (1998, October). *Technologically teaching algebra to elementary students*. Presented at the annual meeting of the Florida Council of Teachers of Mathematics, Orlando, FL.
 38. Capraro, R. M., & Capraro, M. M. (1997, October). *2-d, 3-d and all that's geometry*. Presented at the annual meeting of the Florida Council of Teachers of Mathematics, Ft. Lauderdale, FL.
 39. Capraro, R. M., & Capraro, M. M. (1996, October). *Algebra concepts for teachers*. Presented at the annual meeting of the Florida Council of Teachers of Mathematics annual meeting, Ft. Myers, FL.
 40. Capraro, R. M., & Capraro, M. M. (1995, April), *Elementary algebra, my dear*. Presented at the 73rd annual meeting of the National Council of Teachers of Mathematics, Boston, MA.
 41. Capraro, R. M., & Capraro, M. M. (1995, January). *Geometry concepts for teachers*. Presented at the Dade County Mathematics Conference, Miami, FL.

42. Capraro, R. M., & Capraro, M. M. (October, 1995). *Algebra my dear*. Presented at the annual meeting of the Florida Council of Teachers of Mathematics, Palm Beach Gardens, FL.
43. Capraro, R. M., & Capraro, M. M. (1994, January). *Standards based instruction and the competency based curriculum*. Presented at the Dade County Mathematics Conference, Miami, FL.
44. Capraro, R. M., & Capraro, M. M. (1989, June). *The model school*. Slide Presentation – Newark, NJ. Miami –Dade County Public Schools, Miami, FL.

Invited Presentations

1. Capraro, M. M. (2009, November). *Pathways to publication*. Symposium presented at the 37th annual conference of the National Middle School Association. Indianapolis, IN.
2. Capraro, M. M., Capraro, R. M., Harbaugh, A., Cifarelli, V., Pugalee, D., & Lamm, M. (2009, August). *Developing proportional reasoning across ideas of equality*. Invited address International Symposia Elementary Maths Teaching, Charles University, Prague, CZ.
3. Capraro, M. M., Jensen, D., & Morgan, J. (2009, January). *Water resources engineering*. Invited address presented at the Texas Association of School Administrators Mid-Winter Conference, Austin, TX.
4. Capraro, R. M., & Capraro, M. M. (2009, January). *Engineering PBL in the secondary classroom: Pollution, dilution, and acceptability*. Invited presentation at the T-STEM Best Practice Conference, South Padre Island, TX.
5. Capraro, M. M., & Capraro, R. M. (2008, September). *Recommended reporting practices in teacher education*. Presented at the Educational Research Center Seminar, College Station, TX.
6. Morgan, J., Capraro, R. M., & Capraro, M. M. (2008, June). *Stage Storage PBL*. Workshop presented at the STEM Summer Institute, Dallas, TX.
7. Capraro, R. M., Maxwell, G., & Capraro, M. M. (2008, January). *The mission of the NTSTEM center*. Workshop presented at the STEM Leaders Centers Meeting, El Paso, TX.
8. Capraro, M. M. (2008, June). *Sheltered Instruction Observation Protocol (SIOP)*. Workshop presented at the Trainers of Trainers, College Station, TX.
9. Capraro, M. M., & Capraro, R. M. (2008, July). *Mathematics teaching and teacher education (Panel Discussion #4)*. Presented at the Seminar on Mathematics Education, Center for Distance Learning, College Station, TX.
10. Capraro, M. M. (2008, January) *What works in classrooms*. Session in T. Scott (Chair) Best practices: From our classrooms to yours. STEM Teacher Summit, College Station, TX.
11. Capraro, M. M., Goldsby, D., Yetkiner, Z. E., Piccolo, D., Ozel, S., Wright, K., Indioigne, E., & Capraro, R. M., (2007, May). *Overview of the K-4 modules*. Presented at the Texas A & M Mathematics TEKS connection conference, College Station, TX.
12. Capraro, R. M., & Capraro, M. M. (2007, September). *Research + teaching: What makes an effective mathematics classroom*. Invited address at the monthly meeting of Phi Delta Kappa, College Station, TX.

13. Capraro, R. M., & Capraro, M. M. (2005, February). *Roll, flip, and slide into geometry*. Invited address at the annual meeting of the Texas Mathematical Association of Two-Year Colleges, Austin, TX.
(Presented with Doctral*, Masters, and ***Undergraduate students)**

Grants- Total Awarded \$2,416,343

- State of Texas – 21st Century grant -- Infusing STEM Education Through Customized Learning Experiences in K-12 Schools. (Submitted 2009 for \$1,531,200)
- Reading to Solve Verbal (written/word) Problems (RSVP). (Revise and Resubmitted to IES for 1.6 million 2009)
- State of Texas – 21st Century Grant – Infusing STEM Education Through Customized Learning Experiences in K-12 Schools. (Submitted 4/15/09 for \$1,531,200).
- A Replicable Urban Partnership Model for Delivering STEM High School and Transition-to-College Success in Engineering for Diverse, Inner City High School Students. (Submitted to NSF -February, 2009 for \$3,996,726)
- Texas Education Agency - *M-STAR- Curriculum Focal Points* - **CoPI** 01/06/09 - 12/31/09 **(Awarded December, 2008 for \$900,000)**
- College of Education & Human Development- CEHD Research Grant for Preparing *Elementary Mathematics Specialists (PEMS) Through an Online Graduate Program* **(Awarded May, 2008 for \$5000)**
- Corporation for National and Community Service - *North Texas Interstate STEM / Service Learning Initiative* (NTISSLI) (not funded: Submitted 5/08 - \$960,000)
- NEA Foundation Grant - Student Achievement Grant- *We Are Dying to Get in Here!* (not funded: \$5000 submitted 4/08 – not funded)
- Spencer Foundation - Induction Programs and Principal Quality: How to Create the Best Support for Beginner Secondary (6-12) Math/Science Teachers – (not funded \$396,444)
- Department of Defense -US Army. *Computerized Mathematics Models: Understanding the Impact of Representational Models on Cognition*. (Submitted 2/23/07; Waiting for Resubmission due to change in Army Leadership \$75,000)
- Spencer Foundation. *Developing Mathematical Understanding Through Controlled Language Development*. (Submitted \$40,000)
- Spencer Foundation. *Developing Representational Models and Success in Middle Grades Mathematics*. (Submitted \$40,000)
- Institute of Education Sciences – Department of Education. *Powerful Representations in Middle Grades Mathematics Education (PRiMME)*. (Submitted 1.5 million)
- Texas Education Agency. *Texas- Science, Technology, Engineering, and Mathematics* CO-PI Texas A & M /TEA **(Awarded: \$1.2 million)**.
- Department of Education (not awarded). *Pathways to Higher Education for At-Risk Student Scholars Collaborating Departments*, Sub contract with CDLR, Southwest Texas Community College. (Submitted 2.8 million).
- TQ Grant submitted (not awarded) to the Texas Higher Education Coordinating Board, February 2005, *Middle School Mathematics II* for \$81,999.

- Regent's Initiative: *Longitudinal Influences of Conceptual Mathematics on Teacher Classroom Enactments*, **awarded March, 2004 for \$18,600.**
- Regent's Initiative: *Professional Teaching Portfolios and Teaching Artifacts: Do They Provide Insightful Information About Preservice Teachers?* **PI- awarded April, 2003 for \$10,000.**
- Regent's Initiative Grant: *Electronic Teaching Portfolios: Technology Skills + Portfolio Development = Powerful Preservice Teachers*, **PI- awarded April, 2002 for \$10,000.**
- Regent's Initiative Fellowship: *Systematic Integration of Technology in the Preservice Teacher Education Program* submitted in cooperation with Dr. Nancy Allen and Dr. Robert Capraro **PI-awarded April, 2002 for \$10,000.**
- Item Analysis and Revision Protocol Development: A Case Study. Washington, DC: AAAS, **Co-PI awarded February, 2001 for \$19,343.**
- International Travel Grant, *Elementary Geometry Pedagogy: A Comparison Between the United States and China*. Texas A & M University COE-IPECC **PI-awarded March, 2001 for \$500.**
- Research Enhancement Grant, *Elementary Geometry Standards: A Comparison between the United States and China*. Texas A & M University **PI-awarded in 2001 for \$500.**
- Travel Grant, Continuing Research with UNT Professor on the MARS. Texas A& M University **PI-awarded November, 2000 for \$700.**
- Women's History Month Grant, The University of Southern Mississippi, **PI-awarded Spring, 2000 for \$700.**
- Co-author, Comprehensive School Reform Demonstration Grant North Twin Lakes Elementary, **Co-PI-awarded June, 1999 for \$150,000.**
- Research Grant, Title VI. M³ Making Math Meaningful for North Twin Lakes Elementary, Miami, Florida, **PI-awarded July 1997 for \$10,000.**
- Technology Grant, North Twin Lakes Elementary, Hialeah, Florida, **Co-PI-awarded July, 1995 for \$90,000.**

Journal/Book Reviewing

- Teaching Children Mathematics, NCTM Journal, 1999-2009.
- Journal for Research in Mathematics Education, 2004 – 2009.
- American Education Research Journal: TLHD, 2004-2006.
- Educational Researcher, 2004-2006.
- School Science and Mathematics Journal: Assistant Editor 2006-10.
- Texas Teacher's Educator's Forum 2001-05
- Multicultural Reviewer for Middle School Mathematics, Scott Foresman-Addison Wesley: Course 1 and Course 3, 1998.
- Proposals: 2002 Annual Meeting of AACTE (14), November, 2001.
- Proposed text of Teaching Mathematics in Elementary and Middle Schools: A Universal Design for Learning – Chapters 3,4, 5, & 6, October, 2001.
- Proposal reviewer for SERA (2002-09)

- Proposed text of Elementary Math Methods Prentice Hall, 2002.
- Proposal reviewer for AERA (2006-2009)

Research

- **Module Developer:** Mathematics TEKS Connection Grant (2005-07)
- **Co-PI:** Texas- Science, Technology, Engineering and Math Center (2006 - 2009) Dallas ISD
- **Project Coordinator/ Faculty Researcher:** Middle School Mathematics Project, IERI Grant (2001-2006). *Improving Mathematics Teacher Practice and Student Learning thru Professional Development.*
- **Principal Investigator:** *Item Analysis and Revision Protocol Development: A Case Study*, Washington D.C., AAAS (2001-02).
- **Principal Investigator:** *Developing Action Researchers in Undergraduate Education Majors* (2001-03).
- **Principal Investigator:** *Comparing the Mathematical Problem Solving of Elementary Students Based on Teacher's Beliefs and Practices* (2000). Dissertation.

Community Activities

- March of Dimes Supporter (2005-2008)
- American Heart Association Brazos Supporter (2001-2002)
- Friend of St. Joseph's Hospital – Brazos Bash Committee (2001-2002)
- Doral Ryder Open, American Cancer Society, 1980-1998
- Celebrity Bagger (American Cancer Society) 1997-1999
- Coconut Grove Arts Festival 1997-1999
- Blood Drive Organizer, Humanities Committee–St. Louis Catholic Church 1997-99
- Handbell and Choir member, St. Louis Catholic Church 1985-1999

Service

- President - Southwest Educational Research Association.
- CCRIFC (Mathematics College and Career Readiness Faculty Collaborative) Mathematics Collaborative Advisory Board
- Faculty Search Committee – Department of Educational Psychology.
- Will Ferrell Scholarship Committee Chair – goal Rudder Scholarship \$50,000, reached over the goal - \$52,000.
- Student Research Week Out-of-Field Judge (2001 – 2003, 2005)
- Educational Research Exchange Outstanding Paper Committee (2002&03)
- Department Faculty Search Committee Mathematics Education (2002)
- Field-Based School (Bryan & College Station) Involvement (2000-2005)

- Board of Directors, Member at Large, Southwest Educational Research Association (2002-2004; 2004-06 – elected 2 terms)
- Teaching to the Education Standards: Math TEKS Connection. (2007, May). 175 elementary, middle, and secondary teacher educators from 40 different universities participated in a three-day workshop to examine electronic resources developed by the MTC team.
- Teacher Summit. (2008, January). 312 secondary teachers attended two-day workshop to learn to apply research to classroom teaching and learning.
- Summer Teacher Institute. (2008, June). 106 middle and secondary teachers participated in “best practice” teaching lessons with a focus on PBL using engineering design.
- Training of Trainers. (2008, June). 15 middle and secondary teachers developed expertise and presentation skills on Project Based Learning, SmartBoards, Navigator, Vernier Probes
- National Teacher Education Preparation Blue Ribbon Committee (2000-01) Organization, Equipment, and Supplies for Artifact Displays Campus Tour – Mitchell Elementary
- Technology Team for Elementary Advisory Council Member (2001)

Awards Received

- Montague-CTE Scholar: Teaching Award for College of Education (one of eight university-wide), 2008
- Outstanding Reviewer-American Education Research Association, *Educational Researcher*, 2006
- Appointed to Full Graduate Faculty Status, Texas A & M, 2004
- Appointed to the Regent’s Initiative for Excellence in Education’s Academy for Educator Development: Regent’s Fellow, 2002
- Assistant Principal of the Year. Region 1, Miami Dade County, 1998
- Math Administrator of the Year, Miami Dade County, 1996
- Teacher of the Year, Sylvania Heights Elementary, Miami, 1986
- Who’s Who in American Colleges and Universities, 1972

Graduate Committees

PhD

Michael Muzheve (Member – Graduated Fall 2008)
 Diana Piccolo (Member – Graduated Spring 2008)
 Alpaslan Shahin (Member- Graduated Fall 2007)
 Shirley Matteson (Member - Graduated Summer 2007)
 Meixia Ding (Member - Graduated Summer 2007)
 Judy Taylor (Member - Graduated Fall 2006)
 Linda R. Zientek (Member- Graduated Spring 2006)
 Tau Gamba Kadhi (Member - Graduate Summer 2005)
 Adam Harbaugh (Co-Chair- Graduated Summer 2005)

Sun Ye (Member- Graduated Summer 2005)

MS-Thesis option

Krystal Meredith (Co-Chair – Graduated Spring 2008)
Elizabeth Matthiesen (Member- Graduated Spring 2006)
April Gilbert (Member- Graduated Spring 2006)
Heather Louder (Member- Graduated Fall 2005)
Emilie Naiser (Member- Graduated Fall 2004)

Med

Kristina Anthony – (Chair - Graduated Summer 2009)
Rebecca Rowntree - (Chair - Graduated Summer 2009)
Kelly Kilgore (Chair - Graduated Summer 2009)
Cheryl Augustine - (Member - Graduated Spring 2009)
Kimberly Murawski - (Chair - Graduated Spring 2009)
Wendee Jones (Member- Graduated Fall 2008)
Danielle Kotara (Chair - Graduated Summer 2008)
Stephanie Fisseler (Chair - Graduated Summer 2008)
Nicole Bowden (Chair - Graduated Summer 2008)
Karla Mendoza (Co-chair - Graduated, Summer 2008)
Charles Phillips (Chair - Graduated Spring 2008)
Joshua McDonald (Co-Chair - Graduated Spring 2008)
Andrea Pearson (Member- Graduated Fall 2007)
Rachel Hemsley (Member – Graduated Summer 2005)
Wendy Wright (Co-Chair Graduated Summer 2004)
Heather Muller (Co-Chair - Graduated Summer 2004)
Amber Senter (Co-Chair - Graduated Summer 2004)
Laura Sebesta (Member- Graduated Summer 2004)
Robyn Bassett (Member- Graduated Summer 2003)
Allison Decker (Co-Chair - Graduated Summer 2002)
Kelly Kelly (Co-Chair - Graduated Summer 2002)

Teaching Addendum

Term	Course #	Title	# of Students	Evaluation Average
04A	MEFB 460	Middle School Mathematics Methods	12	4.75
04B	TEED 649	Post Bac Secondary Mathematics Methods	2	5.0
04C	ECFB 440	Elementary Mathematics Methods	22	4.54
04C	ECFB 420	Elementary Science Methods	22	4.62
04C	EDCI 685	Independent Study	1	5.0
04C	EDCI 684	Professional Internship	5	
05A	ECFB 440	Elementary Mathematics Methods	29	4.74
05B	ECFB 420	Elementary Science	29	4.73
05B	ECFB 420	Elementary Science Methods	29	4.73

05B	EDCI 684	Professional Internship	4	
05B	TEED 649	Post Bac Secondary Mathematics Methods	4	5.0
05C	ECFB 440	Elementary Mathematics Methods	36	4.8
05C	ECFB 420	Elementary Science Methods	36	4.7
05C	MASC 351	Problem Solving in Mathematics	29	4.3
06A	ECFB 440	Elementary Mathematics Methods	36	4.9
06A	ECFB 420	Elementary Science Methods	36	4.9
06A	MASC 351	Problem Solving in Mathematics	13	4.4
06B	MEFB 351	Introduction to Middle School and the Adolescent	14	3.82
06C	ECFB 440	Elementary Mathematics Methods	40	4.75
06C	MASC 351	Problem Solving in Mathematics	25	4.48
06C	MASC 351	Problem Solving in Mathematics	23	4.18
07A	ECFB 440	Elementary Mathematics Methods	41	4.4
07A	ECFB 440	Elementary Mathematics Methods	39	4.36
07A	MASC 351	Problem Solving in Mathematics	15	4.71
07B	EDCI 673	Analysis of Teaching Behavior	27	4.43
07C	ECFB 440	Elementary Mathematics Methods	43	4.54
07C	EDCI 623	Teaching and Learning Pattern and Change Concepts	13	4.91
08A	EDCI 624	Assessing Cognitive Structures Related to Learning and Teaching Mathematics	11	4.62
08B	EDCI 673	Analysis of Teaching Behavior	21	4.2 (average)
08C	MASC 351	Problem Solving in Mathematics	63 (2 sections)	4.41 4.51
09B	EDCI 673	Analysis of Teaching Behavior	23	3.66
09C	MASC 351	Problem Solving in Mathematics	57	

Current Student Committees

Chair/CoChair	Member	Doctoral/ Masters/ Masters Thesis
	Christopher Romero	D
Alma-Fabiola.Rangel		D
Lea Ellen Burch		D
Murray Cox		D
Antonio Carranza		D
Linda Stearns		MT
	April Moon	M
	Tamala Willis	M