

Catherine Stein Schwartz
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EDUCATION

University of North Carolina at Chapel Hill, Elementary Education, B.A., 1997
University of North Carolina at Greensboro, Curriculum and Instruction, M.Ed., 2005
University of North Carolina at Greensboro, Curriculum and Instruction, Ph.D., 2008

APPOINTMENTS

University

Assistant Professor, Mathematics Education, East Carolina University, 2008-present

Courses Taught (8-12 hours per semester):

MATE 3050 Mathematics and Methods in Grades K-2

MATE 3051 Field Experience in Mathematics K-2

MATE 3060 Mathematics and Methods in Grades 3-6

MATE 6058 Number Systems and Operations: Selecting, Designing, and Using
Mathematical Tasks in the K-5 Classroom

MATE 6061 Algebraic Reasoning: K-5 Discourse and Questioning

MATE 6062 Geometry and Spatial Visualization: Assessing Student Knowledge
in the K-5 Mathematics Classroom

Instructor, University of North Carolina at Greensboro, 2005-2008

Student Teaching Supervisor and Professional Development School Team Leader,
University of North Carolina at Greensboro, 2005-2008

K-12

Teacher, Carrboro Elementary School, Carrboro, NC, 1998-2005

Teacher, South Mebane Elementary School, Mebane, NC, 1997-1998

Participant, TEAM II (Teaching Excellence and Mathematics), an NSF grant funded,
state-wide teacher leadership project, 2001-2007

PUBLICATIONS

Schwartz, C.S. & Sinicrope, R. (accepted). Prospective elementary teachers' perceptions of gender differences in children's attitudes towards mathematics. *School Science and Mathematics*.

Slagter van Tryon, P.J. & Schwartz, C.S. (2012). A pre-service teacher training model with instructional technology graduate students as peer coaches to elementary pre-service teachers. *Tech Trends*, 56(6), 31-36.

Richardson, K., Reynolds, A. & Schwartz, C.S. (2012). Exploring quadrilaterals through flexible approaches. *Mathematics Teacher*, 106(4), 288-294.

Schwartz, C. S. (2012). Developing the practice of teacher questioning through a K-2 elementary mathematics field experience. *Proceedings of Research Council on Mathematics Learning Conference*.

- Schwartz, C.S. (2012). Counting to 20: Online implementation of a face-to-face, elementary mathematics methods problem-solving activity. *Tech Trends*, 56(1), 34-39.
- Richardson, K., Schwartz, C. S. , & Reynolds, A. (2010). Investigating quadrilaterals as an ongoing task. *International Journal for Mathematics Teaching and Learning*.
- Schwartz, C. S. (2010). *Counting to 20: The affordances and constraints of face-to-face and online versions of an elementary mathematics methods problem-solving activity*. Proceedings of the Society for Information Technology & Teacher Education (SITE) Conference.
- Fairbanks, C.M., Duffy, G.G., Faircloth, B.S., He, Y. Levin, B., Rohr, J., & Stein, C. (2010). Beyond knowledge: Exploring why some teachers are more thoughtfully adaptive than others. *Journal of Teacher Education*, 61(1-2), 161-171.
- Stein, C. & Richardson, K. (2009). *Using spatial reasoning to enhance K-2 number sense*. Centroid, Fall 2009, 7-9.
- Stein, C.C. & Miller, S.D. (2009). *An exploration of elementary preservice teachers' performance and beliefs when negotiating reform-based mathematics education*. Paper presented at the Annual Meeting of the American Education Research Association, San Diego, CA.
- Stein, C. C. (2009). *Using Blogs to Support Mathematics Instruction Among First Year Elementary School Teachers*. Proceedings of the Society for Information Technology & Teacher Education Conference.
- Richardson, K., & Stein, C., (2008) Developing spatial sense and communication skills. *Mathematics Teaching in the Middle School*, 14(2), 101-107.
- Stein, C.C. (2007). Let's talk: Promoting mathematical discourse in the classroom. *Mathematics Teacher*, 101(4), 285-289.
- Wilson, P.H. & Stein, C.C. (2007, September). Growth of understanding in pattern finding. *Proceedings of the Ninth International Conference "Mathematics in a Global Community."* Charlotte, NC.

PEER-REVIEWED RESEARCH PRESENTATIONS

- Schwartz, C.S., Poling, L.L. & Richardson, K. (2013, January) *The nature of feedback given to elementary student teachers during observations of mathematics lessons*. Association of Mathematics Teacher Educators Annual Meeting, Orlando, Florida.
- Schwartz, C.S., Wilson, P.H., Hendrix, T., Joyner, J. & Midgett, C. (2012, February). *Examining teachers' integration and use of multiple domains of mathematics knowledge for teaching in simulated contexts of practice*. Research Council on Mathematics Learning Conference, Charlotte, North Carolina.
- Schwartz, C.S. (2012, February). *Developing the practice of teacher questioning through a K-2 elementary mathematics field experience*. Research Council on Mathematics Learning Conference, Charlotte, North Carolina.
- Mawhinney, K.J., Dick, L.M., Hendrix, T.M., and Schwartz, C.S. (2012, February). *Partnering to teach K-8 teachers: Reflections from a state-wide MSP project*. Association of Mathematics Teacher Educators Annual Meeting. Fort Worth, Texas.

- Schwartz, C. S. (2011, January). *Designing an early K-2 field experience based on high-leverage practices*. Association of Mathematics Teacher Educators Annual Meeting, Irvine, California.
- Schwartz, C. S. (2010, March). *Counting to 20: The affordances and constraints of face-to-face and online versions of an elementary mathematics methods problem-solving activity*. Paper presented at the Society for Information Technology & Teacher Education (SITE) Conference, San Diego, California.
- Stein, C.C. (2009, April). *An exploration of elementary preservice teachers' performance and beliefs when negotiating reform-based mathematics education*. Paper presented at the Annual Meeting of the American Education Research Association, San Diego, California.
- Stein, C. C. (2009, April). *Naming the Space Between: Struggling to Describe Preservice Teachers' Negotiation of Reform-based Mathematics Teaching*. Annual Meeting of the American Educational Research Association, San Diego, California.
- Stein, C. C. (2009, March). *Using Blogs to Support Mathematics Instruction Among First Year Elementary School Teachers*. Paper presented at the Society for Information Technology & Teacher Education International Conference, Charleston, South Carolina.
- Stein, C.C. (2008, April). *An exploration of elementary preservice teachers: Participation and practices in mathematics education*. Paper presented at the Annual Meeting of the American Educational Research Association, New York, New York.
- Richardson, K.D. & Stein, C.C. (2007, October). *An exploration into quadrilaterals*. Annual Meeting of the North Carolina Council of Teachers of Mathematics, Greensboro, North Carolina.
- Stein, C.C. & Wilson, P.H. (2007, October). *Growth of understanding in patterns: Findings from research*. Annual Meeting of the North Carolina Council of Teachers of Mathematics.
- Wilson, P.H. & Stein, C.C. (2007, September). *The role of representations in growth of understanding in pattern-finding tasks*. Presentation at the Ninth International Conference "Mathematics in a Global Community." Charlotte, NC.
- Richardson, K.D. & Stein, C.C. (2006, October). *Spatial instruction with preservice teachers*. Annual Meeting of the North Carolina Council of Teachers of Mathematics, Greensboro, North Carolina.

OTHER PRESENTATIONS

- 2012 (October). *Kinect with Mathematics: Using Xbox and Kinect in the Classroom*, with Kim Coltrain, North Carolina Council of Teachers of Mathematics Annual Fall Conference, Greensboro, North Carolina.
- 2011 (October). *Making sense of geometry vocabulary: Activities grades 3-5*, North Carolina Council of Teachers of Mathematics Annual Fall Conference, Greensboro, North Carolina.
- 2011 (October). *Fun ways to help students make sense of fractions*. Gamma Chapter of the North Carolina Council of Teachers of Mathematics, Greenville, North Carolina.

- 2011 (April) *I can count to 20 before you can! Encouraging math talk in elementary school classrooms*, ECU Clinical Teachers' Conference, Greenville, North Carolina.
- 2010 (October). *Making math stations work*, with Manteo Elementary Teachers, North Carolina Council of Teachers of Mathematics Annual Fall Conference, Greensboro, North Carolina.
- 2010 (February). Closing Session and ECU Mathematics Education Conference, Greenville, North Carolina.
- 2009 (February). Closing Session, North Carolina Council of Teachers of Mathematics Eastern Regional Conference, Rocky Mount, North Carolina.
- 2009 (October). *Talking in class? Supporting useful discourse in math*. NCCTM Gamma Chapter, Greenville, North Carolina.
- 2008 (October). *Story problems: Examining students' representations*, with Dr. Sarah Pratt, North Carolina Council of Teachers of Mathematics Annual Fall Conference, Greensboro, North Carolina.
- 2008 (October). *More than just sorting shapes: Developing students' spatial sense can also enhance their understanding of number* with Dr. Kerri Richardson, North Carolina Council of Teachers of Mathematics Annual Fall Conference, Greensboro, North Carolina.
- 2007 (March). *Linking algebra and geometry: Pattern finding with polygons*, with Penny Shockley, Annual Meeting of the National Council of Teachers of Mathematics, Atlanta, Georgia.
- 2004 (April). *Ch-ching! A mini-society*, with Penny Shockley, Annual Meeting of the National Council of Teachers of Mathematics, Philadelphia, Pennsylvania.

GRANTS AND FELLOWSHIPS

Schwartz, C.S. (2013-2015). *Helping First-Year Elementary Teachers Achieve Teaching Excellence in Mathematics*. Funded by Z. Smith Reynolds Foundation (\$69,864.00).

AWARDS AND HONORS

Finalist, East Carolina University Alumni Association Outstanding Teaching Award, 2013

Graduate Student Teaching Award, School of Education 2006-2007, University of North Carolina at Greensboro.

Richard Horn Scholarship, recipient, UNCG, 2005-2006 academic year

Carrboro Elementary School Teacher of the Year 2004-2005

Chapel Hill/Carrboro City Schools Elementary Mathematics Teacher of the Year 2003

OTHER PROFESSIONAL ACTIVITIES AND SERVICE

North Carolina Council of Teachers of Mathematics Eastern Region President-Elect, 2012-present

Teachers and Administrators Partnering for Mathematics Learning (TAP), 2010-present
Higher education consultant for MSP project that is providing professional development to approximately 800 mathematics lead teachers and administrators across North Carolina

North Carolina Elementary Add-on Licensure Faculty Planning Team, 2009-present
North Carolina Council of Teachers of Mathematics State Secretary, 2008-2011
Partners for Mathematics Learning, 2007-2010

Higher education consultant for MSP grant-sponsored project that provided professional development in a train-the-trainers model that eventually reached 80% of NC elementary school teachers.

North Carolina Council of Teachers of Mathematics Eastern Region Secretary, 2007
North Carolina Council of Teachers of Mathematics Trust Fund Committee, 2006-2011
Professional development for elementary teachers in multiple counties and state-wide meetings across North Carolina, ongoing

LICENSURE

North Carolina, Grades K-6 Elementary Education

PROFESSIONAL ORGANIZATIONS

Association of Mathematics Teacher Educators
National Council of Teachers of Mathematics
North Carolina Council of Teachers of Mathematics