

Denise A. Spangler
Senior Associate Dean
Professor of Mathematics Education

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Education

BSEd, Elementary Education, Illinois State University, 1987

MS, Mathematics, Illinois State University, 1989

PhD, Mathematics Education, University of Georgia, 1995

Academic Experience

Senior Associate Dean, College of Education, University of Georgia, 2017-present

Associate Dean for Faculty and Staff Services, College of Education, University of Georgia, 2014-2017

Bebe Aderhold Professor in Early Childhood Education, College of Education, University of Georgia, 2013-present.

Professor, Department of Mathematics and Science Education, University of Georgia, 2006-present

Department Head, Department of Mathematics and Science Education, University of Georgia, December 2005-2014

Associate Professor, Department of Mathematics Education, University of Georgia, 2000-2006

Assistant Professor, Department of Mathematics Education, University of Georgia, 1995-2000

Selected Publications (Note: Denise A. Spangler has also published under the name Denise S. Mewborn.)

Journal Articles

Spangler, D. A., & Hallman-Thrasher, A. (2014). Using task dialogues to enhance preservice teachers' abilities to orchestrate discourse. *Mathematics Teacher Educator* 3(1), 58-75.

Kilic, H., Cross, D. I., Mewborn, D. S., Ersoz, F. A., Swanagan, D. K., Kim, J. (2010). Techniques for small group discourse. *Teaching Children Mathematics* 16(6), 350-357.

Franklin, C. A., & Mewborn, D. S. (2008). Statistics in the elementary grades: Exploring distributions of data. *Teaching Children Mathematics* 15(1), 10-16. (This article was reprinted in Hirsch, C., Lappan, G., & Reys, B. (2012). *Curriculum issues in an era of*

Common Core State Standards (pp. 165-173). Reston, VA: National Council of Teachers of Mathematics.)

- Mewborn, D. S., & Stinson, D. W. (2007). Teacher education as assisted performance. *Teachers College Record* 109(6), 1457-1487.
- Mewborn, D. S., & Tyminski, A. M. (2006). Lortie's apprenticeship of observation revisited. *For the Learning of Mathematics* 36(3), 30-32.
- Leatham, K. R., Lawrence, K. G., & Mewborn, D. S. (2005). Getting started with open-ended assessment. *Teaching Children Mathematics* 11, 413-419.
- Mewborn, D. S., & Huberty, P. D. (2004). A site-based model for professional development in mathematics at elementary school level. *Pythagoras* 59, 2-7
- Mewborn, D. S., Beckmann, S., Davion, V., Desmet, C, Ross, S. H., Oliver, J. P., Preissle, J., & Ruppensburg, H. (2002). Expanding the "Great Conversation" to include arts and sciences faculty. *Innovative Higher Education* 27(1), 39-51.
- Gober, D. A., & Mewborn, D. S. (2001). Promoting equity in mathematics classrooms. *Middle School Journal* 32(3), 31-35.
- Mewborn, D. S. (2001). Teachers' content knowledge, teacher education, and their effects on the preparation of elementary teachers in the United States. *Mathematics Teacher Education and Development* 3, 28-36.
- Mewborn, D. S. (2000). Learning to teach elementary mathematics: Ecological elements of a field experience. *Journal of Mathematics Teacher Education* 3(1), 27-46.
- Mewborn, D. S. (2000). Meaningful integration of mathematics methods instruction and field experience. *Action in Teacher Education* 21(4), 50-59.
- Mewborn, D. S., & Stanulis, R. N. (2000). Making the tacit explicit: Teacher educators' values and practices in a co-reform teacher education program. *Teacher Education Quarterly* 27(3), 5-22.
- Mewborn, D. S. (1999). Creating a gender equitable classroom environment. *International Journal of Leadership in Education* 2, 103-115.
- Mewborn, D. S. (1999). Reflective thinking in preservice elementary mathematics teachers. *Journal for Research in Mathematics Education* 30, 316-341.
- Mewborn, D. S., & Huberty, P. D. (1999). Questioning your way to the Standards. *Teaching Children Mathematics* 6(4), 226-227, 243-246.

Mewborn, D. S. (1998). The quarter quandary: An illustration of NCTM's Professional Teaching Standards. *Teaching Children Mathematics* 5, 160-163.

D'Ambrosio, B. S., & Mewborn, D. S. (1994). Children's constructions of fractions and their implications for classroom instruction. *Journal of Research in Childhood Education*, 8, 150-161.

Spangler, D. A. (1992). Assessing students' beliefs about mathematics. *Arithmetic Teacher*, 40, 148-152. (This article was reprinted in Lambdin, D. V., Kehle, P. E., & Preston, R. V. (Eds.) (1996). *Emphasis on assessment: Readings from NCTM's school-based journals*. Reston, VA: National Council of Teachers of Mathematics and in Teppo, A. R. (1999). *Reflecting on practice in elementary school mathematics*. Reston, VA: National Council of Teachers of Mathematics.)

Book Chapters

Jacobs, V. R. & Spangler, D. A. (2017). Core practices in K-12 mathematics teaching. In J. Cai (Ed). *Compendium of research in mathematics education* (pp. 186-221). Reston, VA: National Council of Teachers of Mathematics.

Spangler, D. A., & Ovrick, R. L. B. (2017). Models for mathematics specialist program development and delivery. In M. B. McGatha & N. R. Rigelman (Eds.) *Elementary mathematics specialists* (pp. 41-51). Charlotte, NC: Information Age Publishing.

Kilpatrick, J., & Spangler, D. A. (2016). Educating future mathematics education professors. In L. D. English & D. Kirschner (Eds.) *Handbook of international research in mathematics education* (pp. 297-309, 3rd edition). New York: Routledge.

Spangler, D. A. (2014). Attending to teachers in mathematics teacher education research. In J-J. Lo, K. R. Leatham, & L. R. VanZoest (Eds). *Research trends in mathematics teacher education* (pp. 181-189). Berlin: Springer.

Spangler, D. A., Kim, J., Cross, D., Kilic, H., Iscimen, F. A., Swanagan, D. (2014). Using rich tasks to promote discourse. In K. Karp (Ed.) *Annual perspectives in mathematics education* (pp. 97-103). Reston, VA: National Council of Teachers of Mathematics.

Spangler, D. A. (2011). Relationships between content knowledge, authority, teaching practice, and reflection. In J. Luebeck & J. W. Lott (Eds.) *Mathematics teaching: Putting research into practice at all levels* (pp. 41-55), San Diego, CA: Association of Mathematics Teacher Educators.

Mewborn, D. S. (2008). Program delivery issues, opportunities, and challenges. In R. E. Reys & J. A. Dossey (Eds.) *US doctorates in mathematics education: Developing stewards of the discipline (Conference Board of Mathematical Sciences issues in mathematics education, Volume 15)* (pp. 129-136). Providence, RI: American Mathematical Society.

Mewborn, D. S., & Cross, D. I. (2007). Mathematics teachers' beliefs and classroom practice. In M. E. Strutchens & W. G. Martin (Eds.) *The learning of mathematics—National Council of Teachers of Mathematics Yearbook* (pp. 259-269). Reston, VA: National Council of Teachers of Mathematics.

Franklin, C. A., & Mewborn, D. S. (2006). The statistical education of PreK-12 teachers: A shared responsibility. In G. Burrill (Ed.) *Thinking and reasoning with data and chance—National Council of Teachers of Mathematics Yearbook* (pp. 335-344) Reston, VA: National Council of Teachers of Mathematics.

Mewborn, D. S. (2003). Teaching, teachers' knowledge, and their professional development. In J. Kilpatrick, W. G. Martin, & D. Schifter (Eds.), *A research companion to the Principles and Standards for School Mathematics* (pp. 45-52). Reston, VA: National Council of Teachers of Mathematics.

Ball, D. L., Lubienski, S., & Mewborn, D. S. (2001). Research on teaching mathematics: The unsolved problem of teachers' mathematical knowledge. In V. Richardson (Ed.) *Handbook of research on teaching* (4th ed.) (pp. 433-456). New York: Macmillan.

Books Edited

Spangler, D. A., & Wanko, J. J. (Eds.) (2017). *Enhancing your classroom practice with the research behind Principles to actions*. Reston, VA: National Council of Teachers of Mathematics.

Mewborn, D. S., & Lee, H. S. (Eds.) (2010). *Scholarly practices and inquiry in the preparation of mathematics teachers (Association of Mathematics Teacher Educators Monograph VI)*. San Diego: AMTE.

Mewborn, D. S. (Series Editor) (2006). *Teachers engaged in research: Inquiry into mathematics* (Vols. I-IV). Reston, VA: National Council of Teachers of Mathematics/InfoAge.

Policy Documents (member of writing team)

American Statistical Association (2015). *Statistical education of teachers*. Arlington, VA: Author.

Conference Board of Mathematical Sciences. (2012). *The mathematical education of teachers II*. Washington, DC: CBMS.

American Statistical Association (2007). *Guidelines for assessment and instruction in statistics education*. Alexandria, VA: Author.

National Council of Teachers of Mathematics. (1995). *Assessment standards for school mathematics*. Reston, VA: Author.

Selected Grant Activity

University System of Georgia Board of Regents, *STEM Education Improvement Plan*, 2016-2018, \$750,000, Co-principal investigator (T. Burg, PI).

Spencer Foundation, *Learning to Teach Elementary Mathematics*, Revisited 2014-2016, \$49,975, Principal Investigator.

National Science Foundation, *Capitalizing on Talent: The Noyce Fellows Program at the University of Georgia*, 2009-2012, \$998,000, Principal investigator (with S. Oliver, C. Kotal).

National Science Foundation, *Semi-Formal Classroom Assessment for Enhancing Discourse, Curriculum, and Achievement in Middle School Mathematics*, \$900,000, 2005-2008, Co-principal investigator (D. Hickey, Indiana University, PI).

Spencer Foundation, *Learning to Teach Elementary Mathematics*, 2000-2004, \$250,000, Principal Investigator.

National Science Foundation, *Integrating Gender Equity and Reform*, 1995-1998, \$796,092 (to Georgia Institute of Technology with a \$146,236 subcontract to University of Georgia and additional subcontracts to Georgia State University, Georgia Southern University, and Clark-Atlanta University), Co-principal investigator. (C. Thorsen, Principal Investigator)

Courses Taught

EMAT 3400 Children's Mathematical Learning
EMAT 3410 Mathematics Methods in PreK-5
EDEC 4020L Field Experience in Early Childhood Education
EDEC 4040 Student Teaching Seminar in Early Childhood Education (EdTPA support)
EMT 6420 Mathematics Methods in Early Childhood Education
EMAT 6990 Research Seminar in Mathematics Education
EMAT 7050 Problems of Teaching Secondary School Mathematics Education
EMAT 8020 Advanced Study of Mathematics Teaching and Teacher Education
MATH 1700 Arithmetic and Problem Solving
FYOS 1001 Freshman Seminar, Contemporary Issues in K-12 Education
STAT 6050 Data Analysis for Elementary and Middle School Teachers
EDUC 8999 Improving Academic Writing

Selected Professional Service

Member, National Council of Teachers of Mathematics Board of Directors, 2015-2018
Member, Budget and Finance Committee, 2015-2018
Chair, Budget and Finance Committee, 2017-2018
Member, Executive Committee, 2017-2018

Editorial Board, National Council of Teachers of *Mathematics Handbook of Research on Mathematics Teaching and Learning*, 2012-2016.

Service, Teaching and Research (STaR) Fellows Program, National Science Foundation and Association of Mathematics Teacher Educators

Institute Staff Member, 2010-2013

Institute Co-Director, 2014-2016

Chair of Fundraising Committee, 2017-2019

Editorial Board Member, *Mathematics Teacher Educator*, 2011-2015

Chair of Editorial Panel, 2011-2014

Advisory Board, Wisconsin Institute for Mathematics, 2010-present

Member, Task Force on Elementary Mathematics Specialists, Association of Mathematics Teacher Educators, 2009.

Editorial Board Member, *Journal for Research in Mathematics Education*, 2007-2010, 2015-2018

Chair of Editorial Panel, 2008-2010

Conference Chair, International Group for the Psychology of Mathematics Education–North American Chapter, 2001-2002.

American Educational Research Association Special Interest Group for Research in Mathematics Education

Awards Committee Chair, 2012-2014

Recording Secretary, 2001-2003

Selected Service to the University

Staff Salary Administration Plan Advisory Group, 2017-2018 (appointed)

President's Task Force on Undergraduate Education, 2016-2017 (appointed)

Teaching Academy

Faculty Affairs Symposium Planning Committee, 2015-16

Executive Committee, 2015-18

Mentor, Teaching Academy Fellows Program, 2016-18

Search Committee for the Vice President for Development and Alumni Relations, University of Georgia, 2013-14 (appointed)

Search Committee for the President, University of Georgia, 2012-2013 (appointed)

Review Team, Office of Public Affairs, 2010-2011 (appointed)

Grievance Committee, Alternate Member, 2010-2012 (appointed)

Honorary Degree Committee, 2008, 2009 (appointed)

Water Resources Task Force, Fall 2007 (appointed)

Academic Honesty Multiple Violations Review Board, 2007-present (appointed)

William A. Owens Award Selection Committee, Office of the Vice President for Research, 2006, 2007, 2008 (appointed)

Selection Committee for the Richard B. Russell Excellence in Undergraduate Teaching Awards, 2004-2006 (appointed)

President's Advisory Committee, 2003-2006 (elected)
Chair, 2005-06 (elected)

Chair, Academic Honesty Appeals Advisory Committee, 2002-2003 (appointed)

University Council, 2000-2003, 2005-2008 (elected)
Educational Affairs Committee, 2000-2003, 2005-2008
Chair, 2001-2003, 2007-2008
Faculty Benefits Committee, 2000-2002
Intercollegiate Athletics Committee, 2005-2008

Academic Honesty Hearing Panelist, 1999-2008

Selected Service to the College

College of Education State of Education Conference Planning Committee, 2013-2017 (appointed)

EdTPA Coordinator Search Committee, 2013. (appointed)

College of Education Alumni Awards Committee, 2013-2017 (appointed)

College of Education Curriculum Committee, 2012-2014 (elected)

College of Education Awards Committee, 2012-2013, 2004-2005 (elected)

College of Education Bylaws Committee, 2010-2012 (appointed)

Search Committee for Director of the Improving Teacher Quality grant, 2010 (appointed)

Chair, Committee to Define the Role of the Office of Academic Programs in the College of Education, 2009 (appointed)

Capital Campaign Steering Committee, 2003-2008 (appointed)

Chair, Committee on the Office of Professional Education, 2004 (appointed)

Promotion and Tenure Committee, 2002 (appointed)

College of Education Research Advisory Committee, 2002-2003 (appointed)

College of Education Faculty Senate, 1999-2002 (elected)
Steering Committee, 2000-2001 (appointed)

College of Education Committee on Committees, 1998-2000 (elected)
Chair, 1998-1999
Co-chair, 1999-2000

College of Education Undergraduate Curriculum Committee, 1996-98 (elected)
Chair, 1997-1998

Early Childhood Education Restructuring Team (School of Teacher Education), 1995-1997.
(appointed)

Selected Awards and Honors

Executive Leadership Institute, University System of Georgia Board of Regents, 2009-2010

The Enlightening Professor Award, Delta Gamma Sorority, University of Georgia, 2005

Richard B. Russell Award for Excellence in Undergraduate Teaching, University of Georgia,
2004

Teaching Academy member, University of Georgia, 2002-present

LEAD Athens participant, Athens Area Chamber of Commerce, 2002-2003

Reviewer Appreciation Award, American Educational Research Association Publications
Committee for service to *Educational Researcher*, 2002

Hall of Fame inductee, Illinois State University College of Education, 2002

Kappa Delta Epsilon Educational Honor Society Outstanding Faculty Member Award,
University of Georgia College of Education, 2002

Sarah Moss Fellowship, University of Georgia, 2000-2001

D. Keith Osborn Sr. Faculty Senate Award for Teaching Excellence, University of Georgia
College of Education, 1999

Kappa Delta Epsilon Educational Honor Society Award for Excellence in Teaching, University of Georgia College of Education, 1999

Lilly Teaching Fellow, University of Georgia Office of Instructional Development, 1996-1997