

Ph.D.



MTE 654      Advanced Number, Algebra and Data for P – 5 Teachers (SU20)

### **Michigan State University**

MTH 202      Elementary Mathematics for Teachers (SP09)

TE 407      Teaching Subject Matter to Diverse Learners in Mathematics (FA05, FA07)

TE 408      Crafting Teaching Practice in Mathematics (SP06, SP08)

SME 600      Special Problems K – 8 Teachers: Geometric Reasoning: Shape and Measurement (SU07)

SME 954      Design and Methods in Mathematics Education Research (FA08)

### **DISSERTATION COMMITTEES**

Chair, Ed.D Dissertation Committee

- Erika Jay, *Institutional Diversity Policy And Retention Of Black Faculty At Northern Kentucky University: An Examination Of Policy And Perceptions*

Member, Ed.D. Dissertation Committee

- Stani Kantcheva, *Cost-Benefit Analysis On Initiatives Intended To Improve Degree Completion At Cincinnati State Technical And Community College* (Summer, 2020)
- Georgetta Kelly, *Human Resource Reform in Action: A case study analysis for local governments* (Spring, 2020)
- Dannie Moore, *Black Men Matter - A Case Student Analysis of the Experience of Three* 2020)

## PUBLICATIONS

### Refereed Journal Articles

Thomas, J., Fisher, M. H., Jong, C., Schack, E. O., Krause, L. R., & **Kasten, S.** (2015). Professional noticing: Learning to teach responsively. *Mathematics Teaching in the Middle School*, 21(4), 238-243.

**Kasten, S.E.**, Austin, C., & Jackson, C. (2014). Am I a mathematics teacher who teaches middle grades or a middle grades teacher who teaches mathematics? Untangling the multiple identities of preservice teachers. *Middle Grades Research Journal*. 9 (2), 125 - 138.

Newton, J., & **Kasten, S.** (2013). Two models for evaluating alignment of state standards and assessments: Competing or complementary perspectives? *Journal for Research in Mathematics Education*, 44(3), 550-581.

**Kasten, S.** & Sinclair, N. (2009). Using dynamic geometry software in the mathematics classroom: A study of teachers' choices and rationales. *International Journal for Technology in Mathematics Education*, 16(4), 132-144.

### Refereed Articles in Conference Proceedings

Jackson, C., Austin, C., & **Kasten, S.** (2016). Preservice teachers' use of mathematical explanations. In Wood, M. B., Turner, E. E., Civil, M., & Eli, J. A. (Eds.). (2016). *Proceedings of the 38th annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education in Schools*, 16(1), 114-128. (Arizona State University, 2016) (10.1007/978-1-4939-9162-2\_11)



- Tosolt, B., Bacevich, A., Bills, P., **Kasten, S.** & Childs, D. (October, 2018). *A Framework for Developing Responsive Teaching Practices in an Embedded Urban Preparation Program*. Presentation at the annual meeting of the Mid-Western Educational Research Association, Cincinnati, OH.
- Kasten, S.** & Noblitt, B. (February, 2018). *Addressing the Standards for Effective Programs through an Embedded Methods and Clinical Experience*. Poster presented at the annual meeting of the Association of Mathematics Teacher Educators, Houston, TX.
- Wood, M.B., **Kasten, S.**, Drake, C., Newton, J.A., Spangler, D.A., & Wilson, P.S. (November, 2015). *Prospective Teachers and Common Core State Standards for Mathematics: Activities Used by Mathematics Teacher Educators*. Poster presented at annual meeting of the Psychology of Mathematics Education North American Chapter, East Lansing, MI (contributed but did not attend).
- Noblitt, B. & **Kasten, S.** (October, 2015). *The Five Practices for Organizing Meaningful Mathematical Discussions*. Presentation at the annual meeting of the Kentucky Council of Teachers of Mathematics, Shelbyville, KY.
- Newton, J., Staples, M., & **Kasten, S.** (February, 2015). *Preparing to Teach the Standards for Mathematical Practice: A Learning Progressions Approach*. Presentation at the Association of Mathematics Teacher Educators, Orlando, FL.
- Noblitt, B. & **Kasten, S.** (November, 2013). *Incorporating 5 Practices for Orchestrating Productive Mathematics Discussions in methods courses*. Presentation at a regional meeting of the National Council of Teachers of Mathematics, Louisville, KY.
- Males, L.M., Newton, J., Hudson, R.A., Horvath, A., **Kasten, S.**, Lorenzo, C., & Keating, F. (November, 2013). *Investigating prospective secondary teachers' mathematical knowledge for teaching*

**Kasten, S.**, Austin, C., Jackson, C., Noblitt, B., & Thomas, J. (February, 2013). *Preservice teacher preparation (PTP) working group*. Presentation at the annual meeting of the Kentucky Center for Mathematics, Lexington, KY.

Newton, J., **Kasten, S.**, Karunaratne, S., Kenney, R., Senk, S., He, J., Wortinger, K., Jung, H., & Heid, M.K. (January, 2013). *Investigations into secondary mathematics teacher education programs: Capstones, "methods," and algebra*. Presentation at the annual meeting of the Association of Mathematics Teacher Educators, Orlando, FL.

**Kasten, S.** & Newton, J. (April, 2012). *Reasoning and sense making: Classroom activities from the Mathematics Teacher*. Presentation at the annual meeting of the National Council of Teachers of Mathematics, Philadelphia, PA.

**Kasten, S.** & Jackson, C. (February, 2012). *A comparative analysis of verb use and voice between CCSSM and PSSM*. Poster presented at the STaR pre-session of the annual meeting of the Association of Mathematics Teacher Educators, Fort Worth, TX.

Thomas, J., Schack, E., Eisenhardt, S., Fisher, M., & **Kasten, S.** (April, 2011). *Preservice teacher preparation collaboratives: Building multi-institutional partnerships*. Presentation at Connecting STEM Education across the Bluegrass State, a UK STEM Education Symposium, Lexington, KY.

**Kasten, S.** (March, 2011). *A framework to study preservice teachers' practices of anticipating students' mathematical responses*. Presentation at the annual conference of the Research Council on Mathematics Learning, Cincinnati, OH.

Liberman, H., & **Kasten, S.** (October, 2010). *The need for measurement*. Presentation at the annual meeting of the Kentucky Council of Teachers of Mathematics, Somerset, KY.

**Kasten, S.**, & Newton, J., (February, 2009). *Aligning state standards: One state, two perspectives*. Poster presented at the annual research conference of the Center for the Study of Mathematics Curriculum, Phoenix, AZ.

**Kasten, S.** (October, 2008). *The microteaching learning experience: Using what preservice teachers notice to understand its impact*. Presentation at the regional conference of the National Council of Teachers of Mathematics, Cleveland, OH.

**Kasten, S.**, (February, 2008). *Standards and assessments: The alignment between content and cognitive demand*. Poster presented at the annual research conference of the Center for the Study of Mathematics Curriculum, Phoenix, AZ.

**Kasten, S.**, & Newton, J. (August, 2007). *Measurement: A look across state standards*. Presentation at the annual meeting of the Michigan Council of Teachers of Mathematics, Holt, MI.

Newton, J., & **Kasten, S.** (March, 2007). *Geometry and measurement: A look across state standards*. Presentation at the annual meeting of the National Council of Supervisors of Mathematics, Atlanta, GA.

Lappan, G., **Kasten, S.**, Wang, S., Newton, J., Tarr, J., & Dingman, S. (March, 2007). *Geometry, measurement, and probability: A look across state standards*. Presentation at the research pre-session of the annual meeting of the National Council of Teachers of Mathematics, Atlanta, GA.

**Kasten, S.** (February, 2007). *Using Sketchpad in the CMP classroom: Focus on teaching*. Presentation at the annual Connected Mathematics Users Conference, Michigan State University, East Lansing, MI.

**Kasten, S.**, Larnell, G., Newton, J., & Wang, S. (August, 2006). *Geometry and measurement: A look across state standards*. Presentation at the annual meeting of the Michigan Council of Teachers of Mathematics, Holt, MI.

**Kasten, S.** (August, 2002). *Using data in the classroom*. Presentation for Columbus Public Schools, Columbus, OH.

Kasten, M., & **Kasten, S.** (October, 2001). *Best practices in elementary geometry*. Presentation at the regional conference of the National Council of Teachers of Mathematics, Columbus, OH.

## GRANTS

**MaTCH: Mathematics Teaching: Clinical Horizons**  
PI

2015 – 2017

*Kentucky Council on Postsecondary Education*

*Focus: Embedding middle and secondary mathematics methods courses in school contexts in order to create learning communities of preservice teachers, inservice teachers, and university faculty.*

*Amount Funded: \$150,000*

**Investigation of Teacher's Use of Curriculum Materials in the CCSSM Era**  
Research Group Organizer

2012 – 2013

M Tc     **Research**



## PROFESSIONAL SERVICE

### Selected Service to the University

Graduate Council (2019 – 2020)  
Search Committee Member, CINSAM Associate Director (2017 – 2018)  
CO-PI, NOYCE Grant (2012 – 2015)  
CO-PI, WIDER Grant Writing (SU13)

### Selected Service to the College

Graduate Programs Coordinator (2019 – 2020)  
Member, College of Education and Human Services Self Study Task Force (2018 – 2019)  
Member, Indirect Cost Committee (2014 – 2018)  
Chair, Indirect Cost Committee (2018 – Present)  
Member, COEHS/PK-12/AS Task Force (2013 – 2014)  
Member, Distinguished Scholars Committee (2012 – 2013)

### Selected Service to the Department

Co-Designer and Facilitator, Elementary Mathematics Specialist Endorsement (2017 – Present)  
MAT One-Year Program Development Team (2016 – 2018)  
Member, RPT Committee (2016, 2017, 2019)  
Chair, Search Committee, Elementary Mathematics Educator (2015 – 2016)  
Member, Search Committee, Clinical Educator (2014 – 2015)  
Co-Chair, Search Committee, Elementary Mathematics Educator (2013 – 2014)  
Member, Faculty Learning Community (2013 – 2016)  
Member, Peer Review Committee (FA10, FA11, FA12, SP15, SP16, SP18, FA19)  
Facilitator, Secondary Program Team (2012 – 2013)  
Co-Facilitator (at)-6 (h)-4 (em)4 (tar)-1 (10 Td)aeF (o)-1 (ear)-21 (y)16 (e)-9. (P)-6.8 (r)-1 (o)-14 i)-6 (r0)-9.9

Organizer of the Middle Grades Preservice Teacher Preparation (MPTP) Collaborative through the Kentucky