

## JENNIFER M. BAY-WILLIAMS

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### Education

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1999	Ph.D., Curriculum and Instruction, University of Missouri-Columbia, MO. Emphasis in Mathematics Education, K-12.
1989	M.Ed., Secondary Education, University of Missouri-Columbia, MO.
1987	B.A., Mathematics and Secondary Education, DePauw University, Greencastle, IN.

### Professional Positions

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2010-Present	Professor, Mathematics Education, University of Louisville. Department Chair, Department of Middle and Secondary Education, University of Louisville.
2010-2017	
2006-2010	Associate Professor and Assistant Department Chair, University of Louisville.
1999-2006.	Assistant/Associate Professor, Kansas State University.
1995-1999	Graduate Teaching and Research Assistant, University of Missouri.
1991-1995	K-12 Mathematics Teacher and Mathematics Coordinator, Colegio Franklin Delano Roosevelt, Lima, Peru.
1987-1991	Mathematics Teacher, Eureka Junior High School, St. Louis, MO. (1989-91); Jefferson Junior High School, Columbia, MO. (1987-89)

### Books

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1. **Bay-Williams, J. M.**, & San Giovanni, J. J. (2021). *Figuring out fluency in mathematics teaching and learning*. Corwin.
2. San Giovanni, J., **Bay-Williams, J. M.**, & Serrano-McFadden, R. (2021). *Figuring out fluency for whole number addition and subtraction*. Corwin.

3. San Giovanni, J., **Bay-Williams, J. M.**, & Serrano-McFadden, R. (2021). *Figuring out fluency for whole number multiplication and division*. Corwin.
4. Charles, R. I., **Bay-Williams, J. M.**, et al. (2020). **enVisionmathFlorida**. Grade K – 6 Student Editions. Glenview, IL: Pearson.
5. Charles, R. I., **Bay-Williams, J. M.**, et al. (2020). **enVisionmathFlorida**. Grade K – 6 Teacher Editions. Glenview, IL: Pearson.
6. National Council of Teachers of Mathematics (NCTM). (2020). *Standards for the preparation of secondary mathematics teachers*. Authors: Rasch, K., **Bay-Williams, J. M.**, Cruz-White, I., Lynch, M., Ramirez, N., Roy, G. J, & Barnes, D.
7. National Council of Teachers of Mathematics (NCTM). (2020). *Standards for the preparation of middle-level mathematics teachers*. Authors: Rasch, K., **Bay-Williams, J. M.**, Cruz-White, I., Lynch, M., Ramirez, N., Roy, G. J, & Barnes, D.
8. **Bay-Williams, J.**, & Kling, G. (2019). *Math Fact Fluency: 60+ Games and Assessment Tools to Support Learning and Retention*. Alexandria, VA: ASCD.
9. Van de Walle, J. A., Karp, K. S., & **Bay-Williams, J. M.** (2019). *Elementary and Middle School mathematics: Teaching Developmentally* (10<sup>th</sup> edition). New York, NY: Pearson Education, Inc. [Translated into Arabic, Bahasa Indonesian, Chinese Simplified, Greek and Turkish.](#)
10. Gold, L., Houston, M., **Bay-Williams, J. M.**, & Ashurst, J. (2018). *On the Money: Math Activities to Build Financial Literacy Grades K-5*. Reston, VA: NCTM.
11. McGatha, M. B., **Bay-Williams, J. M.**, Kobett, B. M., & Wray, J. A. (2018). *Everything you need for mathematics coaching: Tools, plans, and a process that works for any instructional leader*. Thousand Oaks, CA: Corwin (joint publication with NCSM and NCTM).
12. Van de Walle, J., **Bay-Williams, J. M.**, Lovin, L.A., & Karp, K. S. (2018). *Teaching Student Centered Mathematics: Grades 6-8* (3<sup>rd</sup> edition). New York, NY: Pearson Education, Inc.
13. Van de Walle, J., Karp, K. S., Lovin, L.A., & **Bay-Williams, J. M.** (2018). *Teaching Student Centered Mathematics: Grades 3-5* (3<sup>rd</sup> edition). New York, NY: Pearson Education, Inc.
14. Van de Walle, J., Lovin, L.A., Karp, K. S., & **Bay-Williams, J. M.** (2018). *Teaching Student Centered Mathematics: Grades K-2* (3<sup>rd</sup> edition). New York, NY: Pearson Education, Inc.
15. Association of Mathematics Teacher Educators (AMTE) (2017). *Standards for Preparing Teachers of Mathematics*. Raleigh, NC: AMTE. [Lead writers: N. Bezuk, **J. M. Bay-Williams**, G. Martin, & D. Clements]
16. **Bay-Williams, J. M.**, Duffet, A., & Griffith, D. (2016). *Common Core Mathematics in the K-8 Classroom: Results from a National Teacher Survey*.

Thomas B. Fordham Institute, Washington, D.C. [Featured in *Education Week*, June 23, 2016]

17. Peters, S., **Bay-Williams, J. M.**, & Martinie, S. M. (2016). *On the Money: Math Activities to Build Financial Literacy Grades 9-12*. Reston, VA: NCTM.
18. Van de Walle, J., Karp, K., & **Bay-Williams, J. M.** (2016). *Elementary and Middle School mathematics: Teaching Developmentally* (9<sup>th</sup> edition). New York, NY: Pearson Education, Inc.
19. Charles, R. I., **Bay-Williams, J. M.**, et al. (2016). **enVisionmath2.0**. Grade K – 6 Student Editions. Glenview, IL: Pearson.
20. Charles, R. I., **Bay-Williams, J. M.**, et al. (2016). **enVisionmath2.0**. Grade K – 6 Teacher Editions. Glenview, IL: Pearson.
21. **Bay-Williams, J. M.**, Bush, S. B., Peters, S. B., & McGatha, M. B. (2015). *On the Money: Math Activities to Build Financial Literacy Grades 6-8*. Reston, VA: NCTM.
22. Van de Walle, J., Karp, K. S., & **Bay-Williams, J. M.**, McGarvey, L. M., & Folk, S. (2015). *Elementary and Middle School Mathematics Methods: Teaching Developmentally* (4<sup>th</sup> Canadian edition). Ontario: Pearson Education Canada.
23. **Bay-Williams, J. M.**, McGatha, M. B., Kobett, B. M., & Wray, J. A. (2014). *Mathematics coaching: Resources and tools for coaches and leaders, K-12*. New York, NY: Pearson Education, Inc.
24. Van de Walle, J., **Bay-Williams, J. M.**, Lovin, L.A., & Karp, K. S. (2014). *Teaching Student Centered Mathematics: Grades 6-8* (2<sup>nd</sup> edition). New York, NY: Pearson Education, Inc.
25. Van de Walle, J., Karp, K. S., Lovin, L.A., & **Bay-Williams, J. M.** (2014). *Teaching Student Centered Mathematics: Grades 3-5* (2<sup>nd</sup> edition). New York, NY: Pearson Education, Inc.
26. Van de Walle, J., Lovin, L.A., Karp, K. S., & **Bay-Williams, J. M.** (2014). *Teaching Student Centered Mathematics: Grades K-2* (2<sup>nd</sup> edition). New York, NY: Pearson Education, Inc.
27. **Bay-Williams, J. M.** (2013). *Field Experience Guide for Elementary and Middle School Mathematics* (4<sup>th</sup> edition). New York, NY: Pearson Education, Inc.
28. Van de Walle, J., Karp, K. S., & **Bay-Williams, J. M.** (2013). *Elementary and Middle School Mathematics Methods: Teaching Developmentally* (8<sup>th</sup> edition). New York, NY: Pearson Education, Inc.
29. Van de Walle, J., Karp, K. S., & **Bay-Williams, J. M.** (2013). *Elementary and*

*Middle School Mathematics Methods: Teaching Developmentally* (Professional Development edition). New York, NY: Pearson Education, Inc.

30. Caldwell, J. H., Karp, K., & **Bay-Williams, J. M.** (2011). *Developing Essential Understanding of Addition and Subtraction in Prekindergarten–Grade 2*. Reston, VA: NCTM.
31. Van de Walle, J., Folk, S., Karp, K. S., & **Bay-Williams, J. M.** (2011). *Elementary and Middle School Mathematics Methods: Teaching Developmentally* (3<sup>rd</sup> Canadian edition). Ontario: Pearson Education Canada.
32. **Bay-Williams, J. M.** & Van de Walle, J. (2010). *Field Experience Guide for Elementary and Middle School Mathematics* (3<sup>rd</sup> Edition). New York: Allyn and Bacon.
33. Van de Walle, J., Karp, K. S., & **Bay-Williams, J. M.** (2010). *Elementary and Middle School Mathematics Methods: Teaching Developmentally* (7<sup>th</sup> edition). New York: Allyn and Bacon.
34. Van de Walle, J., Karp, K., & **Bay-Williams, J. M.** (2009). *Elementary and Middle School mathematics: Teaching Developmentally: Instructor’s Manual* (7<sup>th</sup> edition). New York: Allyn and Bacon.
35. **Bay-Williams, J. M.** & Martinie, S. L. (2009). *Math and Nonfiction: Grades 6-8*. Sausalito, CA: Math Solutions Publications.
36. Pugalee, D., Arbaugh, F., **Bay-Williams, J. M.**, Farrell, A., Mathews, S., & Royster, D. (2008). *Navigating through Connections in Grades 6 – 8*. Reston, VA: National Council of Teachers of Mathematics (NCTM).
37. **Bay-Williams, J. M.** (2007). *Field Experience Guide for Elementary and Middle School Mathematics*. (2<sup>nd</sup> edition) New York: Allyn and Bacon.
38. Masalski, W., Boster, C. Vennebush, P., Bassarear, T., **Bay-Williams, J. M.**, et al. (2007). *Interactive School Mathematics: Computer-based Curriculum – Course 3 [8<sup>th</sup> grade]*. MathResources.com.
39. **Bay-Williams, J. M.** & Martinie, S. L. (2004). *Math and Literature: Grades 6 - 8*. Sausalito, CA: Math Solutions Publications.

## Edited Books

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**Bay-Williams, J. M.** (Ed.) (2012). *Professional Collaborations in Mathematics Teaching and Learning: Seeking success of All -- 2012 NCTM Yearbook (74<sup>th</sup> Yearbook)*. Reston, VA: NCTM.

**Bay-Williams, J. M., & Karp, K. (Eds.). (2008).** *Growing Professionally: Readings from NCTM Publications for Grades K-8*. Reston, VA: NCTM.

## Journal Publications - Refereed

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1. **Bay-Williams, J. M., Peters, S. A., & Id-Deen, L. (2020).** From stress to success: Supporting teachers as they teach multiple strategies. *Reflections: Publication of the Georgia Council of Teachers of Mathematics*, 12(1).
2. **Bay-Williams, J. M., & Kling, G. (2019).** Timing, time, and talk: 3 Ts to effective use of basic fact games. *Prime Number*, 34(3), 6 – 9.
3. **Bay-Williams, J. M., & Fletcher, G. (2019 - reprint).** A bottom-up hundreds chart? Reprint published in *The Best of TCM, MTMS, and MT on Goals, Tasks, and Representations*. Formerly published in *Teaching Children Mathematics*.
4. **Bay-Williams, J. M., & Kling, G. (2019).** 5 fundamentals for developing basic fact fluency. *Prime Number*, 34(2), 4 – 9.
5. Kling, G., & **Bay-Williams, J. M. (2019-reprint).** Assessing basic facts fluency. Reprint in *The Best of TCM, MTMS, and MT on Fluency, Understanding, and Productive Struggle*. Formerly published in *Teaching Children Mathematics*.
6. **Bay-Williams, J. M., & Fletcher, G. (2017).** A bottom-up hundreds chart? *Teaching Children Mathematics*, 24(3), 153 – 160.
7. Id-Deen, L., McGatha, M. B., & **Bay-Williams, J. M. (2017).** Putting a dent in student voices. *Kentucky Teacher*. Accessed at <http://www.kentuckyteacher.org/subjects/mathematics/2017/01/new-paper-putting-a-dent-in-student-voice/>
8. **Bay-Williams, J. M., & Martine, S. L. (2015).** Order of operations: The myth and the math. *Teaching Children Mathematics*, 21(1).
9. Kling, G., & **Bay-Williams, J. M. (2015).** Three steps to mastering multiplication facts. *Teaching Children Mathematics*, 21(9), 548-559.
10. **Bay-Williams, J. M., & Kling, G. (2014).** Enriching addition and subtraction fact mastery through games. *Teaching Children Mathematics*, 21(4), 238-247.
11. Kling, G., & **Bay-Williams, J. M. (2014).** Assessing basic facts fluency. *Teaching Children Mathematics*, 20(8), 488- 497. [Selected as Summer Must-Read by *Teaching Children Mathematics* editorial panel]
12. Livers, S. D., & **Bay-Williams, J. M. (2014).** Timing vocabulary support: Constructing (not Obstructing) Meaning. *Mathematics Teaching in the Middle School*, 10(3), 153 – 159.
13. **Bay-Williams, J. M. (2013).** 5 language substitutions when teaching fractions. *Mathematics Teaching in the Middle School*, 19(2), 68-69.
14. McGatha, M. B., & **Bay-Williams, J. M. (2013).** Making shifts toward proficiency. *Teaching Children Mathematics*, 20(3), 162- 170.
15. Bush, S., McGatha, M., & **Bay-Williams, J.M. (2012).** Invest in financial literacy! *Mathematics Teaching in the Middle School*, 17(6), 358-365.
16. **Bay-Williams, J. M., & Livers, S. (2009).** Supporting Math Vocabulary Acquisition. *Teaching Children Mathematics*, 16(4), 238-246.
17. **Bay-Williams, J. M. (2007).** Showing your work: Beyond following steps.

- Mathematics Teaching in the Middle School*, 12(6), 338-339.
18. **Bay-Williams, J. M.**, Scott, M., & Hancock, M. (2007). Implementing a model for simultaneous renewal: The case of the mathematics team. *Journal of Educational Research*, 100(4), p. 243 - 253.
  19. **Bay-Williams, J. M.** (2005). Poetry in motion: Using Shel Silverstein's works to engage students mathematically. *Mathematics Teaching in the Middle School*, 10(8), 386-393.
  20. **Bay-Williams, J. M.**, & Meyer, M. R. (2005). Why not just tell students how to solve the problem? *Mathematics Teaching in the Middle School*, 10(7), 340-341.
  21. **Bay-Williams, J. M.**, & Martinie, S. L. (2004). What does algebraic thinking look like? *Mathematics Teaching in the Middle School*, 10(4), 198-199.
  22. **Bay-Williams, J. M.** (2003, September 11). Launching mathematical investigations with literature. *ENC Focus*, 11(5). Retrieved September 12, 2003, from <http://www.enc.org/features/focus/archive/mathlit/document.shtm?input=FOC-003235-index>.
  23. **Bay-Williams, J. M.**, & Martinie, S. L. (2003). Thinking rationally about number in the middle school. *Mathematics Teaching in the Middle School*, 8(6), 282-287.
  24. **Bay-Williams, J. M.**, & Meyer, M. R. (2003). What parents want to know about standards-based mathematics curricula. *Principal Leadership*, 3(7), 54 - 60.
  25. **Bay-Williams, J. M.**, Reys, B. J., & Reys, R. E. (2003). How do middle schools effectively implement standards-based mathematics curricula? Strategies from schools who have. *Middle School Journal*, 34(4), 36 - 41.
  26. Martinie, S. L., & **Bay-Williams, J. M.** (2003). Investigating students' conceptual understanding of decimal fractions using multiple representations. *Mathematics Teaching in the Middle School*, 8(5), 244 - 247.
  27. Martinie, S. L., & **Bay-Williams, J. M.** (2003). Using literature to engage students in proportional reasoning. *Mathematics Teaching in the Middle School*, 9(3), 142 - 148.
  28. Reys, B. J., & **Bay-Williams, J. M.** (2003). The role of curriculum materials in implementing the curriculum and learning principles. *Mathematics Teaching in the Middle School*, 9(2), 120 - 124.
  29. **Bay-Williams, J. M.**, & Norton-Meier, L. A. (2002). Bringing a mathematical eye to children's literature. *Kansas Journal of Reading*, 18, 24-31.
  30. **Bay-Williams, J. M.** (2001). What is algebra in elementary school? *Teaching Children Mathematics*, 8(4), 196-200.
  31. **Bay, J. M.** (2001). Developing number sense ON the number line. *Mathematics Teaching in the Middle School (Focus Issue: A Math Odyssey)*, 6(8), 448 - 451.
  32. **Bay, J. M.** (2000). Linking problem solving to student achievement in mathematics: Issues and outcomes. *Journal of School Improvement*, 1(2), 8 - 13.
  33. **Bay, J. M.**, & Ragan, G. A. (2000). Improving students' mathematical communication and connections using the classic game of telephone. *Mathematics Teaching in Middle School (Focus Issue: Communication)*, 5(8),

486-489.

34. **Bay, J. M.**, Reys, R. E., Simms, K. W., & Taylor, P. M. (2000). Bingo board games: Turning student intuitions into investigations in probability and number sense. *Mathematics Teacher*, 93(3), 200-206.
35. **Bay, J. M.**, & Wasman, D. G. (2000). Making the coordinate grid come to life with human graphing. *Mathematics Teacher*, 93(7), 553-554.
36. **Bay, J. M.**, Beem, J. K., Reys, R. E., Papick, I., & Barnes, D. (1999). Student reactions to standards-based mathematics curricula: The interplay between curriculum, teachers and students. *School Science and Mathematics*, 99(4), 182-187.
37. **Bay, J. M.**, Reys, B. J., & Reys, R. E. (1999). The top 10 elements that must be in place to implement standards-based mathematics curricula. *Phi Delta Kappan*, 80(7), 503 - 506.
38. Reys, B. J., Kim, O., & **Bay, J. M.** (1999). Establishing fraction benchmarks. *Mathematics Teaching in the Middle School*, 4(8), 530 - 532.
39. **Bay, J. M.**, Bledsoe, A., & Reys, R. E. (1998). State-ing the facts – Exploring the United States mathematically. *Mathematics Teaching in the Middle School*, 4(1), 8 - 14.
40. **Bay, J. M.**, & Wasman, D. G. (1998). Middle school mathematics curricula! *The Golden Rectangle*, 4(3), 2, 4.
41. Reys, R. E., **Bay, J.**, Bledsoe, A., & Cook, D. (1997). Squaring Sweden. *Namnaren*, 24(3), 30 - 33.

## Journal Articles - Invited

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1. **Bay-Williams, J. M.** (2020). Then: Transparency in my mathematics classroom. *Mathematics Teacher: Learning and Teaching Pre-K-12*, 113(2), 168-169.
2. Strutchens, M., **Bay-Williams, J.**, Civil, M. Chval, K., Malloy, C. E., White, D. Y., D'Ambrosio, B., & Berry, R. Q. (2012). Foregrounding equity in mathematics teacher education. *Journal of Mathematics Teacher Education*, 15(1), 1 – 7.
3. **Bay-Williams, J. M.**, & Knezek, G. (2008). Editorial: The AMTE – SITE collaborative partnership. *Contemporary Issues in Technology and Teacher Education* [Online serial], 8(1). Accessed at <http://www.citejournal.org/vol8/iss1/editorial/article1.cfm>
4. **Bay-Williams, J. M.** (2007). Teaching mathematics then and now: still hazy after all these years? A reaction paper to "Algebra in the Elementary Schools" by James H. Shipley. *Teaching Children Mathematics*, 13(5), 248-251.
5. **Bay-Williams, J. M.**, Shroyer, M. G., Hancock, M., Scott, M. B. (2004). The amoeba of simultaneous renewal and the residue it leaves behind. *National Science Foundation STEMTP Meeting Proceedings*, Washington, D.C.: NSF.

## Book Chapters - Refereed

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1. **Bay-Williams, J. M.** (2017). Poetry in motion: Using Shel Silverstein's works to engage students mathematically. *Mathematics Teaching in the Middle School*, 10(8), 386-393. In D. Thiessen (Ed.) *Exploring Math through Literature*. Reston, VA: NCTM.
2. Martinie, S. L., & **Bay-Williams, J. M.** (2017). Using literature to engage students in proportional reasoning. In D. Thiessen (Ed.) *Exploring Math through Literature* (2<sup>nd</sup> Edition). Reston, VA: NCTM.
3. **Bay-Williams, J. M.**, & Kling, G. (2015). Developing Fact Fluency: Turn off Timers, Turn up Formative Assessments. In C. Suurtamm (Ed.) *Annual Perspectives on Mathematics Education*. Reston, VA: NCTM.
4. Reys, B. J., & **Bay-Williams, J. M.** (2009 - reprint). The role of curriculum materials in implementing the curriculum and learning principles. Formerly published in *Mathematics Teaching in the Middle School*, in J. M. Bay-Williams, & K. Karp (Eds.) *Growing Professionally: Readings from NCTM Publications for Grades K-8.*, Reston, VA: NCTM.
5. **Bay-Williams, J. M.**, & McGraw, R. (2008). Issues of implementation: Making mathematics accessible to all learners. In M. R. Meier & C. W. Langrall (Eds.) *A decade of middle school mathematics curriculum implementation: Lessons learned from the Show-Me Project*. Charlotte, NC: Information Age Publications.
6. **Bay-Williams, J. M.**, & Herrera, S. (2007). Is "just good teaching" enough to support English language learners? Insights from sociocultural learning theory. In W. G. Martin & M. E. Strutchens (Eds.), *The learning of mathematics: Sixty-ninth yearbook of the National Council of Teachers of Mathematics* (pp. 43-63). Reston, VA: NCTM.
7. **Bay, J. M.**, Reys, B. J., & Reys, R. E. (2005 - reprint). The top 10 elements that must be in place to implement standards-based mathematics curricula. Formerly in *Phi Delta Kappan*, in M. Oshea (Ed.) *From Standards to Success: A Guide for School Leaders*, Alexandria, VA: ASCD.
8. **Bay-Williams, J. M.**, Skipper, E. M., & Eddins, S. K. (2004). Developing a well-articulated algebra curriculum: Examples from the NCTM Academy for Professional Development. In R. N. Rubenstein & G. W. Bright (Eds.), *Perspectives on the teaching of mathematics: Sixty-sixth yearbook of the National Council of Teachers of Mathematics* (pp.15 – 26). Reston, VA: NCTM.
9. **Bay-Williams, J. M.** & Martinie, S.L. (2003). In search of meaningful contexts for exploring important middle school mathematics: What children's literature



can offer. In S. A. McGraw (Ed.), *Integrated mathematics: Choices and challenges* (pp. 203-210). Reston, VA: NCTM.

10. **Bay, J. M.**, Bledsoe, A., & Reys, R. E. (2002- reprint). State-ing the facts – Exploring the United States mathematically. Formerly published in *Mathematics Teaching in the Middle School*, In *Reflecting on NCTM’s Principles and Standards for School Mathematics*, NCTM.
11. **Bay, J. M.** (2001). Appropriate preparation of doctoral students: Dilemmas from a small program perspective. In R. E. Reys & J. Kilpatrick, (Eds.), *One field, many paths: United States doctoral programs in mathematics education* (pp. 129-131). Providence, RI: American Mathematical Society.

## Book Chapters - Invited

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1. **Bay-Williams, J. M.**, & Stokes Levine, A. (2017). The Role of Concepts and Procedures in Developing Fluency. In D. Spangler & J. Wanko (Eds.) *Enhancing Professional Practice with Research Behind Principles to Actions*. Reston, VA: NCTM.
2. **Bay-Williams, J. M.** (2017). Poetry in motion: Using Shel Silverstein’s works to engage students mathematically [with student activity pages]. In D. Thiessen (Ed.) *Exploring Math through Literature*. Reston, VA: NCTM.
3. Martinie, S. L., & **Bay-Williams, J. M.** (2017). Using literature to engage students in proportional reasoning [with student activity pages]. In D. Thiessen (Ed.) *Exploring Math through Literature*. Reston, VA: NCTM.
4. **Bay-Williams, J. M.**, Glasser, R., & Bronger, T. (2013). Algebra describes the world. In M. Gottlieb & G. Ernst-Slavit, (Eds). *Academic Language Demands for Language Learners: Mathematics, Grades 3-5: Promoting Content and Language Learning*. Corwin: Thousand Oaks, CA.
5. **Bay-Williams, J. M.** (2012). “Foreword: Designing a garden where seeds can go.” In M. Neagoy (Author) *Planting the seeds of algebra: Explorations for the early grades*. Corwin: Thousand Oaks, CA.
6. **Bay-Williams, J. M.** (2010). Influences on student outcomes: Teachers’ classroom practices. In D. Lambdin (Ed.) *Teaching and Learning Mathematics: Translating Research for Elementary School Teachers* (pp. 31-36). Reston, VA: NCTM.
7. **Bay-Williams, J. M.** (2010). Teachers and teaching: Teachers’ classroom practices. In D. Lambdin (Ed.) *Teaching and Learning Mathematics: Translating Research for Elementary School Teachers* (pp. 37-46). Reston, VA: NCTM.

8. **Bay-Williams, J. M.**, & Karp, K. (2010). Teachers and teaching: Attributes of the teacher. In D. Lambdin (Ed.) *Teaching and Learning Mathematics: Translating Research for Elementary School Teachers* (pp. 47-54). Reston, VA: NCTM.
9. **Bay-Williams, J. M.** (2008). Language and Math Trailblazers. In *Math Trailblazers Teacher Implementation Guide*. Chicago: Kendall Hunt.
10. **Bay-Williams, J. M.** (2008). Foreword. In M. S. Smith & S. N. Friel (Eds.) *Cases in Mathematics Teacher Education: Tools for Developing Knowledge Needed for Teaching*. AMTE Monograph Series, 4, p. v-vi.
11. **Bay-Williams, J. M.** (2008). Foreword. In F. Arbaugh & P. M. Taylor (Eds.) *The Work of Mathematics Teacher Educators*. AMTE Monograph Series, 5, p. v-vi.
12. **Bay, J. M.** & Goldston, M. J. (2000). *Implementation and sustainability of curricular change in science and mathematics: Issues and concerns*. In M. Grace & K. Smith Monograph: International Consortium for Research in Science and Mathematics Education (ICRSME VIII), San Jose, Costa Rica.

## **Booklets and Other Invited Resources**

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Johnson, C. C., Morris, S., **Bay-Williams, J. M.** (2021). *First Day Mathematical Identity Survey: AMTE Standards-based resource for teacher educators*. AMTE Standards for the Preparation of Teachers of Mathematics.

**Bay-Williams, J. M.**, & Kling, G. (2017). *Games and tools for teaching addition facts*. ASCD Quick Reference Guide. Alexandria, VA: ASCD.

Kling, G., & **Bay-Williams, J. M.** (2018). *Games and tools for teaching multiplication facts*. ASCD Quick Reference Guide. Alexandria, VA: ASCD.

## **Additional Publications**

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### ***Professional Invited Blogs and White Papers***

**Bay-Williams, J.**, & SanGiovanni, J. (2021). "Math Fluency Practice is not a Worksheet!" *Corwin Connect*. Accessed at <https://corwin-connect.com/2021/03/math-fluency-practice-is-not-a-worksheet/>

**Bay-Williams, J. M.** (2020). STEM: Pi Day and Other Irrational Math Ideas *K-12Talk*. W.W. Norton & Company Publishers. Accessed at <https://k-12talk.com/2020/03/10/stem-pi-day-and-other-irrational-math-ideas/>

**Bay-Williams, J. M.** (2018). Developing the “Full Package” of Procedural Fluency. *Pearson Research into Practice Series*.

**Bay-Williams, J., & McGatha, M.** (2018, April). “How to ‘Coordinate’ Engagement and Learning in Math Class.” *Corwin Connect*. Retrieved from <http://corwin-connect.com/2018/04/how-to-coordinate-engagement-and-learning-in-math-class/>

**Bay-Williams, J. M.** (2017, April). “Language fluency gives insights into procedural fluency” *NCSM Conference Blog*.

**Bay-Williams, J. M.** (2017, March). “When are we ever gonna use this?” *NCTM Conference Blog*. Retrieved from <http://www.nctm.org/blog/whenareweever/>

**Bay-Williams, J. M.** (2016, August). “Common Core math implementation: The good, the bad, and the ugly” *Thomas B. Fordham Institute*. Retrieved from <https://edexcellence.net/articles/common-core-math-implementation-the-good-the-bad-and-the-ugly> [Voted **Best Blog Finalist** by Education Writers Association (EWA).]

**Bay-Williams, J. M.** (2014, January). “Take-Aways” from methods courses: How will you teach effectively? *Edutopia: The George Lucas Educational Foundation*. Retrieved from <https://www.edutopia.org/blog/takeaways-math-methods-teach-effectively-jennifer-bay-williams> [6.4K shares]

**Bay-Williams, J. M.** (2013, March). “Where is the intersection of the Mathematical Practices and Strategies for ELLs?” *Pearson Research and Innovation Network*. Retrieved at <http://researchnetwork.pearson.com/college-career-success/where-is-the-intersection-of-the-mathematical-practices-and-strategies-for-ells>

Karp, K. H., Lovin, L. A., & **Bay Williams, J. M.** (2013, October). Student-centered math - An important assessment task. *Teachability*. Retrieved at <http://www.teachability.com/docs/DOC-1795>

### ***Invited Podcasts***

**Bay-Williams, J. M.** (2019). Reinventing How We Teach Math and Why We Should. *Bam! Radio Network*.

**Bay-Williams, J. M., & Kling, G.** (2019). Do your Students have Math Fact Fluency. *Teacher Cast Educational Network, Teacher Cast #192*

**Bay-Williams, J. M.** (2019). Quick Talks by Math Experts: Basic Fact Instruction. *Nevada Department of Education*.

**Bay-Williams, J. M.** (2019). Quick Talks by Math Experts: Conceptual and Procedural Knowledge. *Nevada Department of Education*.

## ***K- 8 Curriculum***

Charles, R., **Bay-Williams, J. M.**, et. al. (2020) Envision 2020 - Mathematics (2020), Grades K - 6 development of student editions, teacher editions, professional development videos, and supplemental resources.

Charles, R., **Bay-Williams, J. M.**, et. al. (2020) Florida Envision 2020, Grades K - 6 development of student editions, teacher editions, professional development videos, and supplemental resources.

**Bay-Williams, J. M.** (2020). “Division involving Unit Fractions” lesson series. Published by hand2mind in their Covid19-inspired teach@home series. [5 days of video lessons and activity pages for 5<sup>th</sup> grade]

Envision Mathematics 2.0 (2016, 2017), Grades K - 6 development of student editions, teacher editions, professional development videos, and supplemental resources (Co-author).

Adaptations to Envision Mathematics 2.0 core program in the following full programs:

Envision Mathematics 2.0 – Indiana Edition (2017)

Envision Mathematics 2.0 – Florida Edition (2016)

Envision Mathematics 2.0 – Tennessee Edition (2015)

Bridges International Academies (2012), Grades K - 7 mathematics curriculum.

Designed scope and sequence, outlined lessons, reviewed scripts, managed U.S. development and review team (author and reviewer).

Kendall/Hunt Publishing (2010). MATH Trailblazers Leadership Handbook (Contributing author and reviewer).

Association of Mathematics Teacher Educators (2008). *AMTE Press Release: Foundations for Success - National Mathematics Advisory Panel Report*. (Co-authored with AMTE board members).

University of Louisville (2008). *Standard 3 Exhibit Room* [wrote more than a dozen documents for the Standard 3 Exhibit Room, edited and formatted minutes, and prepared an organized listing of all documents required for the site –total documents that were written, edited, or adapted: approximately 80]

**Bay-Williams, J. M.**, Buck, M. & Pierre, M. (2001). *Navigating through Algebra: Middle school 5-Day academy resource kit*, Reston, VA: NCTM.

**Bay, J. M.**, & Stewart, J. (2000). *NCTM Academy: Middle school 2-Day academy resource kit*, Reston, VA: NCTM.

## ***Selected Newsletter Articles***

**Bay-Williams, J. M.** (2021, Spring). The AMTE Board of Directors: How might you support AMTE? *AMTE Connections*, 30(3).

**Bay-Williams, J. M.** (2008, Fall). Mathematics teacher education and technology education: Perspectives and insights. *AMTE Connections*, 18(1), 1 & 4.

**Bay-Williams, J. M.** (2008, Summer). Mathematics teacher preparation in the limelight: Recommendations from recent national reports. *AMTE Connections*, 17(3), 1 & 4.

**Bay-Williams, J. M.** (2008, Spring). Equity in mathematics teacher education. *AMTE Connections*, 17(2), 1 & 4.

Gutiérrez, R., **Bay-Williams, J. M.**, Kanold, T. (2008, October). Beyond access and achievement: Equity issues for mathematics teachers and leaders. *NCTM News Bulletin*, 45(3), 5.

**Bay-Williams, J. M.** (2007, Fall). Collaborations and connections. *AMTE Connections*, 17(1), 1 & 3.

**Bay-Williams, J. M.** (2007, Summer). Conceptualizing the future. *AMTE Connections*, 16(3), p. 1 & 3.

**Bay-Williams, J. M.** (2007, Spring). A historic review. *AMTE Connections*, 16 (2), p. 1 & 5.

**Bay-Williams, J. M.** & Martinie, S. L. (2004). First, second: A lesson for eighth graders. *Math Solutions Newsletter*. Retrieved July 7, 2004, from <http://www.mathsolutions.com/newsletter/classC1.html>.

**Bay-Williams, J. M.** (2004). Using literature in math teaching: A worthwhile venture at any grade. *KATM Bulletin*, 78(4), p. 6-7.

**Bay-Williams, J. M.** (2004). *Involved in mathematics teacher preparation? What Association of Mathematics Teacher Educators (AMTE) can offer*. *KATM Bulletin*, 78(4), p. 9.

## ***Selected Reports***

**Bay-Williams, J. M.**, (2010, ... , 2016). CAEP Annual Report (4 distinct programs).

**Bay-Williams, J. M.** (2016). B.S. in Middle and Secondary Education: 10-Year Review. Report prepared for the Kentucky Council of Postsecondary Education.

**Bay-Williams, J. M.** (2016). MAT in Middle-level Education: 10-Year Review. Report prepared for the Kentucky Council of Postsecondary Education.

**Bay-Williams, J. M.** (2016). MAT in Secondary Education: 10-Year Review. Report prepared for the Kentucky Council of Postsecondary Education.

**Bay-Williams, J. M.,** Howell, P., McGatha, M. (2015). Paul Weber Award Application.

University of Louisville (2008). NCATE Institutional Report, Standard 3 Chair/Lead.

Association of Mathematics Teacher Educators (2004). Review of Foundations for Success: Mathematics Expectations for the Middle Grades II. Report prepared for the Mathematics Achievement Partnership. (Chaired Task Force, Prepared Report).

Association of Mathematics Teacher Educators (2003). Review of Foundations for Success: Mathematics Expectations for the Middle Grades. Report prepared for the Mathematics Achievement Partnership. (Chaired Task Force, Prepared Report).

## **Grants (Funded)**

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Trials to Implement Models Efficiently (T.I.M.E.) for Interviewing (\$2,348), Funded by the National Council of Teachers of Mathematics (NCTM) Mathematics Education Trust (MET), August 2018 – October 2019. (Principal Investigator).

All in for Algebra. (\$400,000), Funded by the Kentucky Department of Education Math Science Partnerships. October 2015- October 2017. (Co-Principal Investigator with Doug Oak, Associate Superintendent, Carroll County Schools).

Developing Resident Expertise to Achieve Mathematics ((DREAM) for All. (\$390,000), Funded by the Kentucky Department of Education Math Science Partnerships. October 2015- October 2017. (Co-Principal Investigator with Maggie McGatha).

The Young and the Rest of Us: Supporting New Teachers in the Daytime Drama of Teaching (\$1,500). 2004 -2005 Kenneth B. Cummins Award. Funding Source: MET National Council of Teachers of Mathematics (NCTM). (Principal Investigator.)

Advancing Content Understanding in Mathematics through Effective Networks (ACUMEN) Project (\$317,966), Funded by the Kansas State Department of Education, Title II- Part B – Math Science Partnerships. February 2004 – January 2007 (Principal Investigator with Andy Bennett & David Allen).

Evaluation, Research, and Revision for the TIMS/Math Trailblazers Elementary Mathematics Curriculum (\$1,511,921), Funded by National Science Foundation (NSF), June 2003, University of Illinois at Chicago (Principal Investigators: P. Wagreich, M.

Gartzman, and C. Kelso). Subcontract to Kansas State University: \$25,000 (Principal Investigator).

KSU Mathematics Teacher Preparation Partnership (\$850,000). Funded by National Science Foundation, August 2002 (Co-Principal Investigator with Gail Shroyer, Andy Bennett, and Todd Cochrane).

Improving Mathematics through a Problem-based Approach to Content Teaching (IMPACT) Project (\$42,463) Funded by Kansas Board of Regents Eisenhower Funds, December 2001 (Co-Principal Investigator with David Allen).

Supporting Mathematics And Reading Through Books (SMART Books) Project (\$42,029). Funded by Kansas Board of Regents Eisenhower Funds, December 2000 (Principal Investigator).

SMARTer Kids Grant for SMART Products (\$1,800), Awarded by the SMARTer Kids Foundation for implementing Smart Board in undergraduate and graduate courses, Calgary, AB, Canada, October 2000.

Presidential Faculty Development Award (\$1,000), Awarded by the KSU President's Faculty Development Award program to attend the International Research Consortium of Science and Mathematics Education in San Jose, Costa Rica, February, 2000.

Communication and Problem Solving (CAPS): A Vehicle for Improving Mathematics and Science Teaching Project (\$55,071). Funded by Kansas Board of Regents Eisenhower Funds, December 1999 (Principal Investigator with M. J. Goldston).

Supporting Teachers Initiating Reform (STIR) Project, (\$24,000). Funded by the Missouri Coordinating Board for Higher Education, January 1998 (Principal Investigator with Barbara Reys).

## **Grants (Not Funded)**

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Generating Effective Strategy Teaching and Assessing for Learning and Transfer (GESTALT) of Addition Facts (\$4,000,000). Submitted to US. DOE EIR (Education & Innovation Research), April 2019. (Principal Investigator)

Strengthening STEM Teaching in Kentucky (\$1,199,551). Submitted to National Science Foundation (Noyce), August 2019. (Co-Principal Investigator with Tretter (PI), Peters, Riedel, and Jackson (Co-PIs).

## ***Additional Grant Activity***

2012 – 2014      Consultant: Continuous Assessment and Algebra Connections, Kentucky Mathematics and Science Partnership, with Kim Zeidler (PI), University of Kentucky.

2008-2012	Consultant: Making Algebra Connections, Kentucky Mathematics and Science Partnership, with Kim Zeidler (PI), University of Kentucky.
2006-2007	Consultant: Alignment of Current Mathematics Content and Processes with the New NCTM <i>Curriculum Focal Points</i> (\$200,000), 2007-2008, with leadership from Collaborative for Teaching and Learning and University of Louisville.
2006-2008	Leadership Team: Improving Algebra Teaching and Learning in Kentucky GEAR UP Schools. (\$400,000) Kentucky Department of Education/GEAR UP KY, with Maggie McGatha (PI).
2006-2010	Evaluation Team: GEAR UP KENTUCKY II (\$400,000), 2006 – 2009. Kentucky Council on Postsecondary Education, with Bill Bush (PI), Maggie McGatha, and Kathryn Rudasill.

### **International and National Paper Presentations (Refereed)**

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1. **Bay-Williams, J. M.** (2021, April). *Reasoning strategies matter, and that's a [basic] fact*. Presentation at the NCTM Virtual 2021 Annual Meeting.
2. Steimer, J., & **Bay-Williams, J. M.** (2021, April). *Productive struggle in an Algebra unit: Introducing effective teaching strategies one step at a time*. Presentation at the NCTM Virtual 2021 Annual Meeting.
3. **Bay-Williams, J.**, Johnson, C., & Morris, S. (2021, February). *Exploring mathematical identities of emerging and practicing teachers*. Presentation at the annual virtual meeting of the Association Mathematics Teacher Educators (AMTE).
4. **Bay-Williams, J. M.** (2021, February). *Strategic use of games to support basic fact fluency*. Presentation at the NCTM 2021 Virtual Conference.
5. Cruz-White, I., Rasch, K., & **Bay-Williams, J.**, Johnson, C., & Morris, S. (2021, February). *Preparing beginning mathematics teachers for the future: NCTM 2020 Program Standards*. Presentation at the annual virtual meeting of the Association Mathematics Teacher Educators (AMTE).
6. McGatha, M. B., & **Bay-Williams, J. M.** (2020, August). *Questioning practices to support mathematical practices*. Presentation at the Annual Meeting of the National Council of Teachers of Mathematics (NCTM), Chicago, IL. Note: Conference Cancelled/Session invited to become part of NCTM100 Online Series (August 13<sup>th</sup>).
7. **Bay-Williams, J. M.** (2020, April). *Engaging families in fact fluency*. Presentation at the Annual Meeting of the National Council of Teachers of



Mathematics (NCTM), Chicago, IL. Note: Conference Cancelled/Session invited to become part of NCTM100 Webinar series (April 27<sup>th</sup>).

8. **Bay-Williams, J. M.**, & McGatha, M. B. (2020, March). *Coaching to Illuminate Effective (and Ineffective) Ways to Support Diverse Learners*. Presentation at the Annual Meeting of NCSM), Chicago, IL. Note: Session Accepted; Conference Cancelled.
9. **Bay-Williams, J. M.** (2020, March). Advocating for a math fact fluency plan to support every student. Presentation at Empower19 [ASCD Annual Meeting]. Los Angeles, CA. Note: Session Accepted; Conference Cancelled.
10. Neagoy, M., & **Bay-Williams, J. M.** (2020, March). Using powerful visuals to ignite curiosity, conversation, and creativity in K-12 mathematics. Presentation at Empower19 [ASCD Annual Meeting]. Los Angeles, CA. Note: Session Accepted; Conference Cancelled.
11. Martin, W. G., **Bay-Williams, J.**, Bezuk, N., & Clements, D. H. (2020, February). *Enacting the Standards for Preparing Teachers of Mathematics: What are we learning?* Presentation at the annual meeting of the Association Mathematics Teacher Educators (AMTE), Phoenix, AZ.
12. **Bay-Williams, J. M.**, & Kling, G. (2019, April). “5 fundamentals of multiplication fact fluency.” Presentation at the Annual Meeting of the National Council of Teachers of Mathematics (NCTM), San Diego, CA.
13. **Bay-Williams, J. M.**, & McGatha, M. B. (2019, April). Coaching *with* and *for* effective questioning. Presentation at the Annual Meeting of the National Council of Supervisors of Mathematics (NCSM), San Diego, CA.
14. Howell, P., Brown, S., Laman, T.T., **Bay-Williams, J.**, Finch, J., & Gnau, A. (2019, April). “Exploring Perspectives Across Multiple Partnership Schools: One University’s Work to Design Mutually Beneficial Partnerships.” Paper presented at the Annual Meeting of the American Educational Research Association (AERA), Toronto, Canada.
15. Kling, G., & **Bay-Williams, J. M.** (2019, April). “Developing and assessing addition facts in meaningful ways.” Presentation at the Annual Meeting of the National Council of Teachers of Mathematics (NCTM), San Diego, CA.
16. **Bay-Williams, J. M.** (2019, March). “5 Fundamentals for Basic Fact Fluency.” Presentation at Empower19 [ASCD Annual Meeting]. Chicago, IL.
17. **Bay-Williams, J. M.**, & McGatha, M. B. (2019, March). “Connecting teacher practice and student learning with coaching.” Presentation at Empower19 [ASCD Annual Meeting]. Chicago, IL.

18. **Bay-Williams, J. M.**, & McGatha, M. B. (2019, February). “Using *Shifts in Classroom Practice* to support preservice teachers’ effective teaching.” Paper presented at the annual meeting of the Association Mathematics Teacher Educators (AMTE), Orlando, FL.
19. De Araujo , Z., & **Bay-Williams, J. M.** (2019, February). “Acknowledgement, action, & accountability: Looking back and looking forward on progress toward social justice [TODOS presidential exchange session]. Paper presented at the annual meeting of the Association Mathematics Teacher Educators (AMTE), Orlando, FL.
20. **Bay-Williams, J. M.**, & McGatha, M. B. (2018, April). Coaching that connects teaching practices to developing students’ mathematical proficiency. Presentation at the annual meeting of the National Council of Supervisors of Mathematics (NCSM), Washington, D.C.
21. Bezuk, N., **Bay-Williams, J. M.**, Martin, G., & Clements, D. (2018, April). “It takes a [mathematics education] village to prepare a mathematics teacher.” Presentation at the annual meeting of the National Council of Supervisors of Mathematics (NCSM), Washington, D.C.
22. **Bay-Williams, J. M.**, & Elliott, L. (2018, April). “A strategy-based approach to teaching and assessing multiplication fact fluency.” Presentation at the annual meeting of the National Council of Teachers of Mathematics (NCTM), Washington, D.C.
23. McGatha, M. B., & **Bay-Williams, J. M.** (2018, April). “Empowering teachers: Connecting classroom practice and student learning with coaching.” Presentation at the annual meeting of the National Council of Teachers of Mathematics (NCTM), Washington, D.C.
24. **Bay-Williams, J. M.** (2018, March). Developing Fluency with Basic Facts: A Marathon, not a Sprint. Presentation at Empower18 [ASCD Annual Meeting]. Boston, MA.
25. **Bay-Williams, J. M.**, Bezuk, N., Martin, G., & Clements, D. (2018, February). “Collaborating to align programs with the *Standards for Preparing Teachers of Mathematics*.” Paper presented at the annual meeting of the Association Mathematics Teacher Educators (AMTE), Houston, TX.
26. McGatha, M. B., & **Bay-Williams, J. M.** (2018, February). “Connecting teaching practices to student learning to develop well-prepared beginning (and experienced) teachers of mathematics.” Paper presented at the annual meeting of the Association Mathematics Teacher Educators (AMTE), Houston, TX.
27. **Bay-Williams, J. M.** (2017, April). “Pathways to procedural fluency.” Paper presented at the annual meeting of the National Council of Teachers of

Mathematics (NCTM), San Antonio, TX.

28. Kling, G., & **Bay-Williams, J. M.** (2017, April). “Developing and assessing addition fact fluency.” Presentation at the annual meeting of the National Council of Teachers of Mathematics (NCTM), San Antonio, TX.
29. **Bay-Williams, J. M.** (2017, February). “Implementation of CCSS-M in K-8 classrooms: Implications for teacher education and professional development. Paper presented at the annual meeting of the Association Mathematics Teacher Educators (AMTE), Orlando, FL.
30. **Bay-Williams, J. M.**, & McGatha, M. (2016, April). “Understanding fraction multiplication: It counts! Paper presented at the annual meeting of the National Council of Teachers of Mathematics. San Francisco, CA.
31. McGatha, M. B., **Bay-Williams, J. M.**, & Peters, S. (2016, April). “INVESTigating Way to Integrate Mathematics and Financial Literacy.” Paper presented at the annual meeting of the National Council of Teachers of Mathematics. San Francisco, CA.
32. McGatha, M. B., **Bay-Williams, J. M.** (2016, April). “Building a bridge between coaching skills and teaching ELLs.” Presentation at the annual meeting of the National Council of Supervisors of Mathematics. San Francisco, CA.
33. **Bay-Williams, J.M.**, & McGatha, M. B. (2016, January). “Tools for connecting effective teaching to student learning.” Paper presented at the annual meeting of the Association of Mathematics Teacher Educators. Irvine, CA.
34. Kling, G., & **Bay-Williams, J. M.** (2015, April). “Developing and assessing addition fact fluency.” Presentation at the annual meeting of the National Council of Teachers of Mathematics (NCTM). Boston, MA.
35. McGatha, M. B., & **Bay-Williams, J. M.**, (2015, April). “Questioning is one key to success!” Presentation at the annual meeting of the National Council of Teachers of Mathematics. Boston, MA.
36. **Bay-Williams, J. M.**, & McGatha, M. B. (2015, April). “Questioning strategies for coaching and teaching.” Presentation at the annual meeting of the National Council of Supervisors of Mathematics. Boston, MA.
37. **Bay-Williams, J. M.**, & McGatha, M. B. (2015, February). “The lesson’s standards include MP #2-Now what?": Being intentional in developing the Mathematical Practices.” Paper presented at the annual meeting of the Association Mathematics Teacher Educators (AMTE), Orlando, FL.
38. **Bay-Williams, J. M.**, McGatha, M.B., Kobett, B. M., & Wray, J. A. (2014, April). “Leading for mathematical proficiency: Coaching skills, strategies, tools,

and tips.” Presentation at the annual meeting of the National Council of Supervisors of Mathematics. New Orleans, LA.

39. **Bay-Williams, J. M.** (2014, April). “From situations to computations: Using stories to understand subtraction algorithms.” Presentation at the annual meeting of the National Council of Teachers of Mathematics. New Orleans, LA.
40. McGatha, M.B., **Bay-Williams, J. M.**, & Kobett, B. M. (2014, April). “Coaching tips and tools: Leading for mathematical proficiency.” Presentation at the annual meeting of the National Council of Teachers of Mathematics. New Orleans, LA.
41. Kling, G., & **Bay-Williams, J. M.** (2014, April). “Developing and assessing addition fact fluency.” Presentation at the annual meeting of the National Council of Teachers of Mathematics. New Orleans, LA.
42. **Bay-Williams, J. M.**, McGatha, M.B., Kobett, B. M., & Wray, J. A. (2014, February). “Tools for engaging preservice and practicing teachers in connecting mathematical practices with strategies for ELLs.” Paper presented at the annual meeting of the Association of Mathematics Teacher Educators. Irvine, CA.
43. **Bay-Williams, J. M.** (2013, April). “Redefining *help*: Research-based strategies for helping all students learn.” Paper presented at the annual meeting of the National Council of Teachers of Mathematics (NCTM), Denver, CO.
44. **Bay-Williams, J. M.**, & McGatha, M. (2013, April). “Coaching tools to ‘peak’ teachers’ effective questioning and discourse.” Paper presented at the annual meeting of the National Council of Supervisors of Mathematics (NCSM), Denver, CO.
45. McGatha, M., **Bay-Williams, J.**, & Wray, J. (2013, April). “Convince me: Coaching tools for supporting effective questioning and discourse.” Paper to be presented at the annual meeting of the National Council of Teachers of Mathematics (NCTM), Denver, CO.
46. **Bay-Williams, J. M.** (2012, April). “Building algebraic thinking into number and operations.” Presentation at the annual meeting of the National Council of Teachers of Mathematics (NCTM), Philadelphia, PA.
47. Barta, J., **Bay-Williams, J. M.**, Gojak, L. (2012, April). “Helping hands: High quality mathematical professional development and coaching across international borders.” Presentation at the annual meeting of the National Council of Supervisors of Mathematics (NCSM), Philadelphia, PA.
48. McGatha, M. & **Bay-Williams, J.** (2012, April). “Coaching tools for supporting the mathematical practices.” Presentation at the annual meeting of the National Council of Supervisors of Mathematics (NCSM), Philadelphia, PA.

49. McGatha, M. & **Bay-Williams, J.** (2012, April). "Supporting the mathematical practices: What's in your toolkit?" Presentation at the annual meeting of the National Council of Teachers of Mathematics (NCTM), Philadelphia, PA.
50. **Bay-Williams, J. M.**, McGatha, M., Kobett, B., & Wray, J. (2012, February). "Connecting the standards for mathematical practice to teaching practices: tools for professional learning." Presentation at the annual meeting of the Association of Mathematics Teacher Educators (AMTE), Dallas, TX.
51. **Bay-Williams, J. M.**, & Herrera, S. (2011, April). "Analyzing teaching with a lens on language and mathematics learning." Paper presented at the annual NCTM Research Presssion at the National Council of Teachers of Mathematics (NCTM), Indianapolis, IN.
52. **Bay-Williams, J. M.**, & Karp, K. (2011, April). "Using diagnostic interview assessments to steer planning and instruction." Paper presented at the annual meeting of the National Council of Supervisors of Mathematics (NCSM), Indianapolis, IN.
53. **Bay-Williams, J. M.**, & Livers, S. (2011, April). "Strategies, planning, and reflecting on teaching: A three-dimensional approach to supporting ELLs in the Classroom." Paper to be presented at the annual meeting of the National Council of Teachers of Mathematics (NCTM), Indianapolis, IN.
54. McGatha, M., **Bay-Williams, J. M.**, Kobett, B. (2011, April). "Shaping teacher practice through effective coaching tools." Paper to be presented at the annual meeting of the National Council of Teachers of Mathematics (NCTM), Indianapolis, IN.
55. **Bay-Williams, J. M.**, Kitchen, R., Gutiérrez, R., Thompson, D., & Celedón-Pattichis, S. (2011, January). "What experiences in methods courses or professional development best prepare teachers to support ELLs?" Paper presented at the annual meeting of the Association Mathematics Teacher Educators (AMTE), Irvine, CA.
56. **Bay-Williams, J. M.**, & Karp, K. (2010, April). "Transforming mathematics classrooms: Teaching mathematics equitably to all students." Paper presented at the annual meeting of the National Council of Supervisors of Mathematics (NCSM), San Diego, CA.
57. **Bay-Williams, J. M.**, & Karp, K. (2010, April). "Connecting NCTM articles to the context of teaching: Ideas for growing professionally." Paper presented at the annual meeting of the National Council of Teachers of Mathematics (NCTM), San Diego, CA.
58. Englert, K., Brown, E. T., **Bay-Williams, J. M.**, & Bogert, R. (2010, April). "Creating a mathematical community through management and motivation."

Paper presented at the annual meeting of the National Council of Teachers of Mathematics (NCTM), San Diego, CA.

59. **Bay-Williams, J.** (2010, March). "Considerations in fostering the delicate balance between language support and a challenging mathematics curriculum." Poster presented at the Practitioners and Researchers Learning Together: A National Conference on the Mathematics Teaching and Learning of Latino/as. Tucson, AZ.
60. Jones, J., Rudasill, K., **Bay-Williams, J. M.**, Ghosh, R. McGatha, M., Bush, W. (2009, April). "College-going perceptions of middle school, low-income students in Kentucky." Paper presented at the annual meeting of the American Educational Research Association (AERA), San Diego, CA.
61. Reys, B. J., & **Bay-Williams, J. M.** (2009, April). "Promoting leadership in curriculum and instruction: What can NCSM and AMTE do together?" Paper presented at the annual meeting of the National Council of Supervisors of Mathematics (NCSM), Washington, D.C.
62. **Bay-Williams, J. M.** (2009, April). "Translating from words to symbols: Strategies for supporting all students in algebra." Paper presented at the annual meeting of the National Council of Teachers of Mathematics (NCTM), Washington, D.C.
63. Englert, K., **Bay-Williams, J. M.**, & Brown, E. T. (2009, April). "Classroom management, motivation, and math." Paper presented at the annual meeting of the National Council of Teachers of Mathematics (NCTM), Washington, D.C.
64. Brown, E.T., **Bay-Williams, J. M.** & Karp, K. (2009, February). "Performance-based Hallmark Assessment Tasks (HATs): A dynamic continuous assessment system." Paper presented at the annual meeting of the Association Mathematics Teacher Educators (AMTE), Orlando, FL.
65. **Bay-Williams, J. M.**, & Karp, K. (2008, April). "Articles with a high probability of enhancing teachers' learning." Paper presented at the annual meeting of the National Council of Teachers of Mathematics (NCTM), Salt Lake City, UT.
66. **Bay-Williams, J. M.**, & Karp, K. (2008, April). "Pre-K-6: Classroom management, motivation, and math: New teacher session." Paper presented at the annual meeting of the National Council of Teachers of Mathematics (NCTM), Salt Lake City, UT.
67. Thompson, C. S., **Bay-Williams, J. M.**, Brown, E. T., Bush, W. S., & McGatha, M. B. (2008, April). "An analysis of state mathematics standards and assessments, Grades K-8, with Curriculum Focal Points." Paper presented at the annual meeting of the National Council of Teachers of Mathematics (NCTM), Salt Lake City, UT.

68. **Bay-Williams, J. M.**, & Karp, K. (2008, April). "Selecting and implementing favorite articles for professional development." Paper presented at the annual meeting of National Council of Supervisors of Mathematics (NCSM), Salt Lake City, UT.
69. **Bay-Williams, J. M.**, & Karp, K. (2008, January). "The role of professional readings in teacher learning." Paper presented at the annual meeting of the Association Mathematics Teacher Educators (AMTE), Tulsa, OK.
70. Thompson, C., Brown, T. Bush, B., & **Bay-Williams, J. M.**, (2008, January). "The alignment of NCTM's *Curriculum Focal Points* with state and local curricula: What's happening in your state/district?" Paper presented at the annual meeting of the Association Mathematics Teacher Educators (AMTE), Tulsa, OK.
71. **Bay-Williams, J. M.** (2007, March). "Beyond the hypothetical: Exploring diversity through field-based experiences." Paper presented at the annual meeting of the National Council of Teachers of Mathematics (NCTM), Atlanta, GA.
72. **Bay-Williams, J. M.**, & Gay, S. (2007, March). "Strategies for helping teachers to enhance mathematics language and vocabulary development." Paper presented at the annual meeting of the National Council of Supervisors of Mathematics (NCSM), Atlanta, GA.
73. **Bay-Williams, J. M.** (2007, January). "Frameworks and tools for supporting pre-service teachers' performance aligned with NCATE standards." Paper presented at the annual meeting of the Association Mathematics Teacher Educators (AMTE), Irvine, CA.
74. Brown, S., **Bay-Williams, J. M.**, Canty, R. S., Ditto, C., Flevaris, L., Cramer, K., Wyberg, T. & Kelso, C. R. (2006, April). "Math Trailblazers Research And Revision Study: A multifaceted investigation of an NSF-funded comprehensive Standards-based elementary curriculum." Symposium presented at the Research Pre-session of the annual meeting of the National Council of Teachers of Mathematics, St. Louis, MO.
75. **Bay-Williams, J. M.**, & Carter, Yolanda (2006, April). "Integrating strategies for English language learners (ELL) and standards-based mathematics: What does it look like?" Paper presented at the annual meeting of the National Council of Supervisors of Mathematics (NCSM), St. Louis, MO.
76. **Bay-Williams, J. M.** (2006, April). "Sheltering standards-based mathematics lessons to support English language learners." Paper presented at the annual meeting of the National Council of Teachers of Mathematics (NCTM), St. Louis, MO.

77. **Bay-Williams, J. M., & Shroyer, M. G.,** (2006, January). “Effective instruction for English language learners (ELLs): Professional development that integrates sheltered instruction and standards-based mathematics.” Paper presented at the annual meeting of the Association Mathematics Teacher Educators (AMTE), Tampa, FL.
78. **Bay-Williams, J. M., Shroyer, M. G., & Hancock, M. J.** (2005, April). “Professional development for teachers of English language learners (ELL): Integrating standards-based mathematics and sheltered instruction.” Paper presented at the annual meeting of the National Council of Supervisors of Mathematics (NCSM), Anaheim, CA.
79. Brown, S. A., Kelso, C.A., **Bay-Williams, J. M.,** Canty, R. S., Ditto, C. (2005, April). “How are Standards-based elementary school mathematics curricula used in schools?” Paper presented at the annual meeting of the Research Preession to the National Council of Teachers of Mathematics (NCTM), Anaheim, CA.
80. Martinie, S., & **Bay-Williams, J. M.** (2005, April). “Middle school students’ developing knowledge of decimals.” Poster presented at the annual meeting of the American Educational Research Association (AERA), Montreal, CANADA.
81. Preston, R., & **Bay-Williams, J. M.** (2005, January). “Integrating methods, content, and field experiences in courses for K-5 mathematics teachers.” Paper presented at the annual meeting of the Association Mathematics Teacher Educators (AMTE), Dallas, TX.
82. **Bay-Williams, J. M.,** Allen, D., & Hancock, M. (2004, April). “Effective assessment of field experiences: Frameworks and tools for supporting pre-service teachers’ performance.” Paper presented at the annual meeting of the Association Mathematics Teacher Educators (AMTE), San Diego, CA.
83. **Bay-Williams, J. M., & Meyer, M.** (2004, April). “Building community support for implementing NSF-sponsored mathematics programs in school districts.” Paper presented at the annual meeting of the National Council of Supervisors of Mathematics (NCSM), Philadelphia, PA.
84. **Bay-Williams, J. M.,** Shroyer, M. G., Hancock, M., Scott, M. B. (2004, March). “The amoeba of simultaneous renewal and the residue it leaves behind.” Paper presented at the annual meeting of the National Science Foundation STEM-Teacher Preparation, Washington, D.C.
85. Wanko, J., Johnson, I., Keiser, J., Stonewater, J. K., Lappan, G., & **Bay-Williams, J. M.** (2003, April). “Inquiry learning for preservice middle school mathematics teachers.” Paper presented at the annual meeting of the Research Preession to the National Council of Teachers of Mathematics (NCTM), San Antonio, TX.



86. **Bay-Williams, J. M.**, & Martinie, S. L. (2003, April). "Developing rational number sense through children's literature." Paper presented at the annual meeting of the National Council of Teachers of Mathematics (NCTM), San Antonio, TX.
87. Reys, R. E., **Bay-Williams, J. M.**, Lester, F., Long, V. Wilson, P., & Chavez, O. (2003, January). "Multiple perspectives on principles to guide the design and implementation of doctoral programs in mathematics education." Paper presented at the annual meeting of the Association Mathematics Teacher Educators (AMTE), Atlanta, GA.
88. **Bay-Williams, J. M.**, & Martinie, S. L. (2002, April). "Developing proportional reasoning through children's literature." Paper presented at the annual meeting of the National Council of Teachers of Mathematics (NCTM), Las Vegas, NV.
89. Arbaugh, F., & **Bay-Williams, J. M.** (2002, January). "Designing mathematics methods courses using Principles & Standards as a primary text." Paper presented at the annual meeting of the Association of Mathematics Teacher Educators (AMTE), San Antonio, TX.
90. **Bay-Williams, J. M.** (2001, November). "What national and international research tells us about K-12 mathematics teaching and learning." Paper presented at the annual meeting of the Rural Education and Small Schools Conference, Manhattan, KS.
91. Davis, J. & **Bay-Williams, J. M.** (2001, October). "Increasing instructional focus on problem solving: The impact on middle school student problem solving skills and attitudes towards problem solving." Paper presented at the McNair Research Conference, San Juan, Puerto Rico.
92. Davis, J. & **Bay-Williams, J. M.** (2001, September). "Increasing instructional focus on problem solving: The impact on middle school student problem solving skills and attitudes towards problem solving." Paper presented at the McNair Scholar Heartland Research Conference, Kansas City, MO.
93. **Bay, J. M.**, & Martinie, S. (2001, April). "What is a function to a first grader? Exploring algebra in elementary school." Paper presented at the annual meeting of the National Council of Teachers of Mathematics (NCTM), Orlando, FL.
94. **Bay, J. M.** (2000, October). "Standards-based mathematics curricula in K-12: NSF-sponsored textbooks that align with U.S. and Kansas state standards." Presentation at the annual meeting for Rural and Small Schools, Manhattan, KS.
95. **Bay, J. M.** (2000, April). "The dynamics of implementing standards-based mathematics curricula in middle schools." Paper presented at the annual meeting of the American Educational Research Association (AERA), New Orleans, LA.

96. **Bay, J. M.**, & Goldston, M. J. (2000, February). "Implementation and sustainability of curricular change in science and mathematics: Issues and concerns." Proceedings of the International Consortium for Research in Science and Mathematics Education (ICRSME VIII), San Jose, Costa Rica.
97. Wasman, D. G., & **Bay, J. M.** (1999, September). "Algebra is FUNCTIONing in NSF-funded middle school curricula!" Paper presented at the annual meeting of the Joint Meeting of the North Carolina Council of Teachers of Mathematics and the School Science and Mathematics Association (SSMA), Greensboro, NC.
98. **Bay, J. M.**, & Llufrío, J. (1998, April). "Get roped into mathematics-Using rope to teach important concepts." Paper presented at the annual meeting of the National Council of Teachers of Mathematics (NCTM), Washington, D.C.
99. Reys, R. E., & **Bay, J. M.** (1998, April). "Ideas for encouraging and developing estimation." Paper presented at the annual meeting of the at the National Council of Teachers of Mathematics (NCTM), San Diego, CA.

## **Invited Plenaries, Keynotes, Panels, and Presentations**

### ***International and National***

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1. **Bay-Williams, J. M.** (2021, April). "Figuring out fluency beyond facts and algorithms." Invited webinar presentation for Brainingcamp.
2. **Bay-Williams, J. M.** (2021, April). "Strategizing strategy instruction for math fact fluency." Invited webinar presentation for Brainingcamp.
3. **Bay-Williams, J. M.** (2021, March). "What is Culturally Relevant and Responsive Pedagogy in Mathematics?" Invited webinar presentation for Ontario Mathematics Coordinators Association (OMCA) meeting.
4. **Bay-Williams, J. M.**, & SanGiovanni, J. (2021, March). "Figuring out math fluency: going beyond basic facts." Invited webinar presentation for Corwin.
5. **Bay-Williams, J. M.** (2020, December). "Helping students develop mathematical practices." Invited webinar presentation for preservice and practicing teachers, St. Joseph's Teacher College, Kingston, Jamaica.
6. **Bay-Williams, J. M.** (2020, December). "Let's talk about basic fact fluency." Invited webinar presentation for Methodology.
7. **Bay-Williams, J. M.** (2020, November). "Teaching Strategies for Supporting Mathematical Thinking and Reasoning." Virtual presentation for the faculty at Keystone Academy, Beijing, China.
8. **Bay-Williams, J. M.** (2020, October). "Resources and tools for engaging families in

fact fluency.” Invited webinar presentation for the National Council of Teachers of Mathematics (NCTM).

9. **Bay-Williams, J. M.** (2020, July). “Developing multiplication fact fluency.” Invited webinar presentation for Methodology.
10. **Bay-Williams, J. M.** (2020, June). “Developing basic fact fluency.” Invited webinar presentation for Methodology.
11. **Bay-Williams, J. M.** (2020, June). “Teaching Strategies for Supporting Mathematical Thinking and Reasoning.” Virtual presentation for the faculty at Keystone Academy, Beijing, China.
12. **Bay-Williams, J. M.** (2019, December). “Implementing a comprehensive plan to prepare teachers to develop the Mathematical Practices: **Keynote** presentation of consultancy.” Presentation to distinguished leaders in the Jamaican Ministry of Education and Youth (MOEYI), Kingston, Jamaica.
13. **Bay-Williams, J. M.** (2019, December). “Making the shift: Including the mathematics practices in your teaching.” **Plenary Session** for the Jamaican teacher educators and mathematics coaches, Kingston, Jamaica.
14. **Bay-Williams, J. M.** (2019, December). “Revising curriculum to reflect the NCTM Teaching Practices.” Presentation to Jamaican teacher educators and mathematics coaches, Kingston, Jamaica.
15. **Bay-Williams, J. M.** (2019, November). “Challenging Students and Supporting Mathematical Thinking.” Presentation for the faculty at Keystone Academy, Beijing, China.
16. **Bay-Williams, J. M.** (2019, July). “Equity and access for all.” **Presentation** at The Math Learning Center Annual Leadership Institute, Denver, CO.
17. **Bay-Williams, J. M., & Kling, G.** (2019, July). “Teaching Basic Facts Effectively: Add Strategies and Subtract Timed Tests.” Webinar for the National Council of Teachers of Mathematics.
18. **Bay-Williams, J. M.** (2019, June). “Supporting the Mathematical Practices: Revisiting strategies and strategizing for professional learning.” One-day institute for the Jamaican Ministry of Education and Youth (MOEYI) Mathematics Specialists, Kingston, Jamaica.
19. **Bay-Williams, J. M.** (2019, June). “Supporting the Mathematical Practices to Construct Meaningful Mathematics Learning for Preservice Teachers and Their Future Students Mathematics.” Three-day institute for the Jamaican Ministry of Education and Youth (MOEYI) Mathematics Teacher Educators and Mathematics Specialists, Kingston, Jamaica.
20. **Bay-Williams, J. M.** (2019, June). “Supporting the Mathematical Practices to Construct Meaningful Mathematics Learning for Preservice Teachers and Their Future Students Mathematics.” Two-day institute for the Jamaican Ministry of Education and

Youth (MOEYI) Mathematics Teacher Educators and Mathematics Specialists, Mandeville, Jamaica.

21. **Bay-Williams, J. M.** (2019, June). "Supporting the Mathematical Practices to Construct Meaningful Mathematics Learning for Preservice Teachers and Their Future Students Mathematics." Three-day institute for the Jamaican Ministry of Education and Youth (MOEYI) Mathematics Teacher Educators and Mathematics Specialists, St. Ann's, Jamaica.
22. **Bay-Williams, J. M.** (2019, April). "Developing the "Full Package" of Procedural Fluency." Webinar organized by Pearson Education.
23. **Bay-Williams, J. M.** (2019, March). "Table Talk: Five Fundamentals of Basic Fact Fluency." Round table presentation at Empower19 [ASCD Annual Meeting]. Chicago, IL.
24. **Bay-Williams, J. M., & McGatha, M. B.** (2019, March). "Table Talk: Mathematics coaching must connect teaching to student learning." Round Table presentation at Empower19 [ASCD Annual Meeting]. Chicago, IL.
25. **Bay-Williams, J. M.** (2019, March). "Inclusive pedagogical skills for mathematics." **Plenary Session** at the Mico International Mathematics Teaching Summit: Mathematics for Sustainable Economic Growth and Job Creation, Kingston, Jamaica.
26. **Bay-Williams, J. M.** (2019, March). "Mentoring and coaching for effective teaching and learning of mathematics." Presentation at the Mico International Mathematics Teaching Summit: Mathematics for Sustainable Economic Growth and Job Creation, Kingston, Jamaica.
27. **Bay-Williams, J. M.** (2018, August). "Mathematics coaching that impacts student learning." Two-day institute for the Jamaican Ministry of Education and Youth (MOEYI) Mathematics Specialists, Montego Bay, Jamaica.
28. **Bay-Williams, J. M.** (2018, August). "Mathematics teaching that impacts student learning." Two-day institute for the Jamaican Ministry of Education and Youth (MOEYI) Teacher Educators, Montego Bay, Jamaica.
29. **Bay-Williams, J. M.** (2018, July). 5 fundamentals of basic fact fluency. Presentation for the annual Conference for the Advancement of Mathematics Teaching (CAMT), Houston, TX.
30. **Bay-Williams, J. M.** (2018, July). Becoming fluent in developing procedural fluency. Presentation for the annual Conference for the Advancement of Mathematics Teaching (CAMT), Houston, TX.
31. **Bay-Williams, J. M.** (2018, July). "Why and when and other questions we need to ask to develop mathematical proficiency." **Keynote** presentation at the National MathPlus Conference, Kansas City, MO.
32. **Bay-Williams, J. M.** (2018, July). "Four fundamentals of multiplication fact fluency." Presentation at the National MathPlus Conference, Kansas City, MO.

33. **Bay-Williams, J. M.** (2018, July). "Assess basic fact fluency like it's important." Presentation at the National MathPlus Conference, Kansas City, MO.
34. **Bay-Williams, J. M.** (2018, July). "Proper use of properties: Exploring how properties can support understanding of big ideas." Presentation at the National MathPlus Conference, Kansas City, MO.
35. **Bay-Williams, J. M.** (2018, July). "Why did  $y =$  become  $f(x) = ?$  and other questions students ponder about functions." Presentation at the National MathPlus Conference, Kansas City, MO.
36. **Bay-Williams, J. M.** (2018, July). "Coaching that connects teaching practices to developing students' mathematical proficiency." Presentation at the Build Math Minds Virtual Summit.
37. **Bay-Williams, J. M.** (2018, July). "Supporting English language learners (ELs) in Math Teaching." **Keynote** presentation at The Math Learning Center annual Leadership Institute, Denver, CO.
38. **Bay-Williams, J. M.** (2018, July). "Assessing basic facts: Ensuring mastery and fluency for all." Presentation at The Math Learning Center annual Leadership Institute, Denver, CO.
39. **Bay-Williams, J. M.** (2018, June). "Walking the walk, and taking others with you." **Ignite** presentation at the biannual TODOS conference, Phoenix, AZ.
40. **Bay-Williams, J. M.,** & Chval, K. (2018, June). "Can you hear me now? Advocating for equity and social justice." **Opening** Session at the biannual TODOS conference, Phoenix, AZ.
41. **Bay-Williams, J. M.,** & Ramirez, N., & Ceja, D. (2018, June). "Can you hear me *now*? Advocating for equity and social justice." **Closing** Session at the biannual TODOS conference, Phoenix, AZ.
42. **Bay-Williams, J. M.** (2018, April). "Five fantastic fluency routines." Presentation at the annual meeting of NCTM, Washington, D.C.
43. **Bay-Williams, J. M.** (2018, April). "Classroom management, motivation, and math." Presentation at the annual meeting of NCTM, Washington, D.C.
44. **Bay-Williams, J. M.** (2018, April). "Who's on first and why is in left field...But Abbott & Costello are missing an outfielder!" NCSM Breakfast **Keynote** presentation at the annual meeting of NCSM, Washington, D.C.
45. **Bay-Williams, J. M.,** & Karp, K. (2018, April). "Navigating the tenure process." **Panel** presentation at the annual NCTM Research Conference, Washington, D.C.
46. **Bay-Williams, J. M.** (2017, July). "Computational fluency." Half-day major session at the annual Math Learning Center Leadership Institute, Denver, CO. [invited]

47. **Bay-Williams, J. M.** (2017, May). "Research-based strategies that build procedural fluency." Webinar for the Global Mathematics Class. Accessed at <https://www.bigmarker.com/conferences/d802dd23dc67>
48. **Bay-Williams, J. M.** (2017, April). "Leading to support procedural fluency for all students." **Keynote** presentation for the annual meeting of NCSM, San Antonio, TX.
49. **Bay-Williams, J. M.** (2017, April). "5 must-do's for your fluency walk." Presentation for the annual meeting of the Council of Presidential Awardees in Mathematics (CPAM). San Antonio, TX.
50. Bezuk, N., **Bay-Williams, J. M.**, Martin, G., & Clements, D. (2017, February). "Putting AMTE's *Standards for Mathematics Teacher Preparation* to work for you." Presentation at the annual meeting of the Association Mathematics Teacher Educators (AMTE), Orlando, FL.
51. **Bay-Williams, J. M.**, Cocuzza, B., Lucadamo, K., & Pyzik, N. (2016, July). "Teachers like Common Core Math. Why don't parents?." Panel presentation for the Thomas B. Fordham Institute, Washington, D.C. Available at <https://edexcellence.net/events/teachers-like-common-core-math-why-dont-parents>
52. **Bay-Williams, J. M.** (2016, April). Explore counting strategies with NCTM's Activities with Rigor and Coherence. Presentation at the annual meeting of the National Council of Teachers of Mathematics (NCTM), San Francisco, CA.
53. Bezuk, N., **Bay-Williams, J. M.**, Martin, G., & Clements, D. (2016, January). AMTE's *Standards for Mathematics Teacher Preparation*. Presentation at the annual meeting of the Association Mathematics Teacher Educators (AMTE), Irvine, CA.
54. **Bay-Williams, J. M.** (2014, June). "Opening Session." Presentation at the first national TODOS: Mathematics for all conference, Phoenix, AZ.
55. **Bay-Williams, J. M.** (2013, February). "Common Core to common understanding to common implementation: A professional learning journey." Keynote at the Mathematics Leadership Conference, Phoenix, AZ.
56. **Bay-Williams, J. M.** (2013, February). Coaching tools for supporting the Common core state Standards for mathematical practices! Presentation at the Mathematics Leadership Conference, Phoenix, AZ.
57. **Bay-Williams, J. M.** (2013, February). "Creating an environment for ELLs to succeed in CCSS content and mathematical practices." Presentation at the Mathematics Leadership Conference, Phoenix, AZ.
58. **Bay-Williams, J. M.** (2013, February). "Coaching tools for supporting the Common core state Standards for mathematical practices!" Presentation at the Mathematics Leadership Conference, Honolulu, HI.
59. **Bay-Williams, J. M.** (2013, February). "Creating an environment for ELLs to succeed in CCSS content and mathematical practices." Presentation at the Mathematics

Leadership Conference, Honolulu, HI.

60. **Bay-Williams, J. M.**, Hirsch, Stallings, L., & Star, J. (2013, January). "What I wish I knew when I started by career as a mathematics educator: Advise for early career mathematics educators." Panel presentation at the STaR pre-session at the Association Mathematics Teacher Educators (AMTE), Orlando, FL.
61. **Bay-Williams, J. M.** (2012, November). "Creating an environment for ELLs to succeed in CCSS content and mathematical practices." Presentation at the Mathematics Leadership Conference, Chicago, IL.
62. **Bay-Williams, J. M.** (2012, October). "Helping students learn mathematics in the era of the common core: What connections can we make between constructivist learning theory and the CCSS standards?" Keynote at the annual meeting of the Association for Constructivist Teaching (ACT), Johnson City, TN.
63. **Bay-Williams, J. M.** (2012, April). "From common core to common understanding to common implementation: A professional learning journey." [**Keynote**] Paper presentation at the NCSM Annual Meeting, Philadelphia, PA.
64. **Bay-Williams, J. M.**, Bezuk, N., & Lamberg, T. (2012, April). "Understanding children's thinking in the era of common core." Presentation at the annual meeting of the National Council of Teachers of Mathematics (NCTM), Philadelphia, PA.
65. **Bay-Williams, J. M.**, & Karp, K. (2012, March). "Supporting teachers as they implement CCSS-Content and the Mathematical Practices." Webinar organized by Pearson Education.
66. **Bay-Williams, J. M.** (2012, February). "Celebrating 20 years of AMTE." Special presentation at the annual meeting of the Association of Mathematics Teacher Educators (AMTE), Dallas, TX.
67. Strutchens, M., **Bay-Williams, J.**, Breyfogle, L., Hendrix, T., Herbal-Eisenmann, B., Martin, G. (2011, October). "Preparing teachers and teacher leaders in the era of the common core state standards: Mathematics teacher educators' perspectives." Panel presentation at the Conference Board of Mathematical Sciences (CBMS) [Forum on Teaching Teachers in the Era of the Common Core](#).
68. Barta, J., **Bay-Williams, J. M.**, and seven others (2011, June). "Teaching mathematics equitably to all students." Four-day intensive teaching and professional development (Organized through HELPS International), Santa Avelina, Guatemala.
69. **Bay-Williams, J.**, Kilpatrick, J., Wu, Hung-Hsi (2011, June). "Implications for teacher preparation programs of the TEDS-M study." Panel Presentation at the TEDS-M and the Study of Teacher Preparation in Early Reading Instruction: Implications for Teacher Education Policy and Practice, Washington, D.C.
70. **Bay-Williams, J. M.** (2010, June). "Teaching mathematics equitably to all students." Three-day institute for Arkansas mathematics coaches. Conway, AR.

71. Phillips, R., Bezuk, N., **Bay-Williams, J. M.** (2010, April). "Linking children's mathematical thinking to everyday classroom practice." Panel presentation at Pearson Teacher Education and Development Luncheon. San Diego, CA.
72. **Bay-Williams, J. M.** (2010, March). "Mathematics intervention institute. Boston, MA. Three-day institute for teacher leaders." [Pearson Teacher Education Division], Boston, MA.
73. **Bay-Williams, J. M.**, (2010, March). "Guiding questions to make decisions that support Hispanics in mathematics class." Poster Presentation at the Practitioners and Researchers Learning Together: A National Conference on the Mathematics Teaching, Tucson, AZ.
74. **Bay-Williams, J. M.**, (2009, November). "Standards for expressions, equations, and functions." Presentation at the Conference Board of Mathematical Sciences (CBMS) Forum on the Content and Assessment of School Mathematics. Washington, D.C.
75. **Bay-Williams, J. M.**, (2009, November). "Assessing K-12 mathematics programs." Presentation at the Conference Board of Mathematical Sciences (CBMS) Forum on the Content and Assessment of School Mathematics. Washington, D.C.
76. Rosenstein, J., **Bay-Williams, J. M.**, Li, Y., and Liu, E. (2009, August). "The career hierarchy in China and in the U.S." [**Panel** presentation at the U.S.-China Workshop: The Teacher Development Continuum in the United States and China, Newport Beach, CA.
77. **Bay-Williams, J. M.**, & Bush, W. (2009, April). "Developing algebraic thinking." [Plenary Session]. Paper presented at the annual meeting of the Adult Numeracy Network (ANN), Louisville, KY.
78. **Bay-Williams, J. M.**, & Bezuk, N. (2009, February). "First-timers' session." **Paper** presented at the annual meeting of the Association Mathematics Teacher Educators (AMTE), Orlando, FL.
79. Chen, A., Kamras, J., Fennell, F., & **Bay-Williams, J. M.** (2008, June). "Response to *No Common Denominator: The Preparation of Elementary Teachers in Mathematics.*" **Panel presentation** at the release of the report. National Council of Teacher Quality (NCTQ), Washington, D. C.
80. **Bay-Williams, J. M.**, & Bezuk, N. (2008, January). First-timers' session. **Paper** presented at the annual meeting of the Association Mathematics Teacher Educators (AMTE), Tulsa, OK.
81. **Bay-Williams, J. M.** (2007, October). "What is standards-based mathematics and how do we implement it?" A five-day K-12 professional development, including sessions with K-5, 6-8, and 9-12 teachers, and administrators related to K-12 curriculum alignment to standards-based mathematics. American Education School (AES), New Delhi, India.
82. Lappan, G., **Bay-Williams, J.**, Confrey, J., Fennell, F., Klespis, M. (2007, September). "Accreditation of doctoral programs in mathematics education." **Panel** presentation at



the Doctoral Programs in Mathematics Education National Conference, Kansas City, MO.

83. **Bay-Williams, J. M.** (2005, October). "What is standards-based mathematics and how do we implement it?" A five-day K-12 workshop, including sessions with K-5, 6-8, and 9-12 teachers, parent's night, and administrators sessions related to K-12 curriculum alignment to standards-based mathematics. Cairo American College, Egypt.
84. **Bay-Williams, J. M.** (2004, September). "A collection of ideas for using standards-based curriculum in methods courses and field experiences." **Poster** presentation at the Mathematical Preparation of Middle School Mathematics Teachers Conference, St. Louis, MO.
85. **Bay-Williams, J. M.,** & Hoover, M. (2004, May). "Preparing teachers for curriculum implementation." **Paper** presented at the annual Middle School Mathematics Curriculum Showcase, Nashville, TN.
86. **Bay-Williams, J. M.** & Griffith, L. (2003, March). "Navigating through algebra." Two-day institute for the National Council of Teachers of Mathematics (NCTM) Academy for Professional Development, San Diego, CA.
87. Arbaugh, F., & **Bay-Williams, J. M.** (2003, January). "Middle school teachers' mathematics pedagogy preparation." **Paper** presented at the Association Mathematics Teacher Educators (AMTE) Pre-Conference: Middle School Mathematics Teacher Preparation, Atlanta, GA.
88. **Bay-Williams, J. M.,** & Snyder, H. (2002, August). "Navigating through algebra." Two-day institute for the National Council of Teachers of Mathematics (NCTM) Academy for Professional Development, Virginia Beach, VA.
89. **Bay-Williams, J. M.,** & Buck, M. (2002, July). "Navigating through algebra." Two-day institute for the National Council of Teachers of Mathematics (NCTM) Academy for Professional Development, Indianapolis, IN.
90. Arbaugh, F., & **Bay-Williams, J. M.** (2002, April). "Fostering successful implementation: Helpful strategies for supporting teachers and building community support." **Paper** presented at the Annual Show-Me Conference, Atlanta, GA.
91. Fennell, F., & **Bay-Williams, J. M.** (2001, November). "Algebra curriculum." **Panel** presentation on MathWeb 2001 (Second annual mathematics education virtual conference).
92. **Bay-Williams, J. M.,** Buck, M., & Pierre, M. (2001, June). "Navigating through algebra." Five-day institute for the National Council of Teachers of Mathematics (NCTM) Academy for Professional Development, Atlanta, GA.
93. **Bay, J. M.** (2001, May). "Preparing teachers, parents, and community for standards-based mathematics curriculum." **Paper** presented at the annual meeting of the Show-Me Center, St. Louis, MO.

94. **Bay, J. M.**, Grant, Y. & Raitt, L. (2001, April). "From principles to practice: NCTM 2-day academy for middle school." Presentation for the National Council of Teachers of Mathematics NCTM Academy for Professional Development, Orlando, FL.
95. **Bay, J. M.**, & Buck, M. (2001, February). "From principles to practice: NCTM 2-day academy for middle school." Presentation for the National Council of Teachers of Mathematics (NCTM) Academy for Professional Development, San Antonio, TX.
96. **Bay, J. M.**, & Stewart, J. (2000, December). "From principles to practice: NCTM 2-day academy for middle school." Presentation for the National Council of Teachers of Mathematics (NCTM) Academy for Professional Development, Baton Rouge, LA.
97. Muri, M., **Bay, J. M.**, & Briars, D. (2000, October). "Those dreaded tests kids have to take." **Panel** presentation on MathWeb 2000 (First mathematics education virtual conference).
98. **Bay, J. M.** (2000, May). "Integrating NSF middle school curricula into a K-8 methods course." **Paper** presented at the annual Show-Me Conference, Branson, MO.
99. **Bay, J. M.**, & Glasgow, R. (2000, April). "Assessment in NSF-sponsored middle school mathematics curricula." [**Plenary Session**] Paper presented at the Presidential Awardees Preconference at the annual meeting of the National Council of Teachers of Mathematics (NCTM), Chicago, IL.
100. Reys, B. J., **Bay, J. M.**, & Wasman, D. G. (1999, April). "Standards-based NSF middle grade mathematics curricula." [**Plenary Session**] Paper presented at the Presidential Awardees Preconference at the annual meeting of the National Council of Teachers of Mathematics (NCTM), San Francisco, CA.
101. **Bay, J. M.** (1997, August). "Aligning and improving K-12 mathematics curriculum and instruction in K-12." A five-day K-12 workshop, including sessions with teachers and administrators related to aligning curriculum and improving instruction. American School of Warsaw, Poland.
102. **Bay, J. M.** (1995, October). "Using manipulatives to teach elementary mathematics." A three-day institute on Standards-based Mathematics. Presented to the faculty at Escola Americano de Campinas, Brazil.
103. **Bay, J. M.** (1995, January). "Teaching in grades K –8. A five-day K-8 on Standards-based Mathematics." Presented to the faculty at Escuela Americano de Quito, Ecuador.
104. **Bay, J. M.** (1994, November). "Strategies for teaching fractions and geometry in the elementary grades." A five-day institute on Standards-based Mathematics. Presented to the faculty at the Escola Americano de Rio de Janeiro, Brazil.
105. **Bay, J. M.** (1994, August). "Teaching ideas for the primary grades. A two-day workshop focused on problem solving and manipulatives with young children." Presented to the faculty of Escola Graduada de Sao Paulo, Brazil.
106. **Bay, J. M.** (1994, January). "Strategies for teaching fractions and geometry in the

elementary grades.” A five-day institute on Standards-based Mathematics. Presented to the faculty at the Escola Americana de Rio de Janeiro, Brazil.

107. **Bay, J. M.** (1993, March). “Integrating mathematics and other topics, Cooperative learning in mathematics,” “Using manipulatives to teach math, and Problem solving in mathematics.” [Workshop]. **Paper** presentations at the Association of American Schools in South America Brazil National Conference, Rio de Janeiro, Brazil.

## **Regional and State Keynotes, Presentations, and Workshops**

1. **Bay-Williams, J.** (2021, March). *Honing our Coaching Skills*. Presentation at the Annual Kentucky Center for Mathematic (KCM) Virtual Conference [invited]
2. **Bay-Williams, J.** (2021, March). *Math fact fluency: Fundamentals*. 3-Hour web-based workshop for the Kentucky Mathematics Intervention Teachers (MITs) at the Annual Kentucky Center for Mathematic (KCM) Virtual Post-Conference [invited].
3. **Bay-Williams, J. M.** (2021, January). “Leading for mathematical proficiency through coaching.” Presentation at the annual Alaska Effective Instruction Institute, Anchorage, AK. [invited]
4. **Bay-Williams, J. M.** (2021, January). “Engaging students cognitively and physically to maximize learning”. Presentation at the annual Alaska Effective Instruction Institute, Anchorage, AK. [invited]
5. **Bay-Williams, J. M.** (2021, January). “12 fluency fallacies and their fixes.” **Keynote** presentation at the Mathematics Educator Appreciation Day (MEAD) annual conference, Arizona.
6. **Bay-Williams, J. M.** (2021, January). “Being strategic in developing math fact fluency.” Presentation at the Mathematics Educator Appreciation Day (MEAD) annual conference, Arizona. [invited]
7. **Bay-Williams, J. M.** (2020, December). “12 Days of Fluency.” Keynote presentation to participants in the Florida Council of Teachers of Mathematics (FCTM) Renee Henry Leadership Conference. [invited]
8. **Bay-Williams, J. M.** (2020, November). “Basic Fact Fluency and Families: Family engagement events.” Webinar presentation to participants in the Alaska Staff Development Network (ASDN), Alaska. [invited]
9. **Bay-Williams, J. M.** (2020, November). “Looking Closer at Mathematical Practices and Teaching Practices.” Webinar presentation to KAMTE Pre-Service Teachers Virtual Conference: Success from the Start, Kentucky. [**Featured Speaker**, invited]

10. **Bay-Williams, J. M.** (2020, October). “Basic Fact Fluency and Families: Listening to Learn.” Webinar presentation to participants in the Alaska Staff Development Network (ASDN), Alaska. [invited]
11. **Bay-Williams, J. M.** (2020, October). “Basic Fact Fluency and Families: Strategizing the Case for Strategies.” Webinar presentation to participants in the Alaska Staff Development Network (ASDN), Alaska. [invited]
12. **Bay-Williams, J. M.** (2020, September). “Basic Fact Fluency and Families: Face the Facts: We Can do Better with Facts.” Webinar presentation to participants in the Alaska Staff Development Network (ASDN), Alaska. [invited]
13. McGatha, M. B., & **Bay-Williams, J. M.** (2020, September). Discussing NCTM100 Session *Questioning practices to support mathematical practices*. Presentation for the Kentucky Council of Teachers of Mathematics (KCTM).
14. **Bay-Williams, J. M.** (2020, August). “Do my students know their facts?” Webinar presentation to for teachers of Alaska through the Alaska Staff Development Network (ASDN), Alaska. [invited]
15. **Bay-Williams, J. M.** (2020, June). *Math Fact Fluency: Ensuring students learn (and love) the basic facts*. Presentation at the annual Arkansas Department of Education (ADE) Summit. [invited]
16. **Bay-Williams, J. M.** (2020, June). *Coaching with and for effective questioning*. Presentation at the annual Arkansas Department of Education (ADE) Summit. [invited]
17. **Bay-Williams, J. M.** (2020, June). *Shift focus to uncover student thinking*. **Keynote** presentation at the summer institute for the Washington County School District, Hagerstown, MD. [invited]
18. **Bay-Williams, J. M.** (2020, June). *Explicit strategy instruction for basic fact fluency*. Presentation at the summer institute for the Washington County School District, Hagerstown, MD. [invited]
19. **Bay-Williams, J. M.** (2020, June). *Ensuring every child develops basic fact fluency*. Presentation at the summer institute for the Washington County School District, Hagerstown, MD. [invited]
20. **Bay-Williams, J.** (2020, February). *On becoming fluent with teaching and assessing math fact fluency*. One-day workshop for Metro Chicago Mathematics Initiative (MCMI) University of Illinois, Chicago, IL. [invited]
21. **Bay-Williams, J.**, Morris, S., Barkley, A., & Bennett, S. (2020, March). *Strategic use of games to support basic fact fluency*. Presentation at the Annual Kentucky Center for Mathematic (KCM) Conference, Lexington, KY. [refereed]

22. Morris, S., & **Bay-Williams, J.** (2020, March). *The intersection between Trauma Informed Care and Effective Mathematical Practices*. Presentation at the annual Kentucky Center for Mathematic (KCM) Conference, Lexington, KY. [refereed]
23. **Bay-Williams, J. M.** (2020, February). *Infusing mathematical practices into tasks to support and challenge every student*. One-day presentation for Cornell University/NY Master Teacher Program, Ithica, NY.
24. **Bay-Williams, J. M.** (2020, January). *Flexibility is more than a teacher trait: developing numeracy through tasks, questioning, and routines*. **Keynote** presentation for the Georgia Council of Supervisors of Mathematics (GCSM) Winter Conference. [invited]
25. **Bay-Williams, J. M.** (2020, January). *Building procedural fluency (and number sense) from conceptual understanding (K-12)*. One-day presentation at the annual Alaska Effective Instruction Institute, Anchorage, AK. [invited]
26. **Bay-Williams, J. M.** (2020, January). *Questioning that supports student math reasoning (K-12)*. Presentation at the annual Alaska Effective Instruction Institute, Anchorage, AK. [invited]
27. **Bay-Williams, J. M.** (2020, January). *Flexibility: More than a teacher trait (K-12)*. Presentation at the annual Alaska Effective Instruction Institute, Anchorage, AK. [invited]
28. **Bay-Williams, J. M.** (2019, November). *Supporting student's mathematical reasoning with the mathematical practices: Sharing is caring and showing is knowing*. Webinar presentation to participants in the Alaska Staff Development Network (ASDN), Alaska. [invited]
29. **Bay-Williams, J. M.** (2019, November). *Who is on first and Why is in the outfield...but Abbott & Costello are missing an outfielder!* **Keynote** presentation at the annual Alabama Council of Teachers of Mathematics (ACTM) Fall Forum, Birmingham, AL. [invited]
30. **Bay-Williams, J. M.** (2019, November). *Using games and assessment tools to ensure students learn (and love) math facts*. Presentation at the annual Alabama Council of Teachers of Mathematics (ACTM) Fall Forum, Birmingham, AL. [invited]
31. **Bay-Williams, J. M.** (2019, November). *Supporting student's mathematical reasoning with the mathematical practices: Make reasoning routine*. Webinar presentation to participants in the Alaska Staff Development Network (ASDN), Alaska. [invited]
32. **Bay-Williams, J. M.** (2019, October). *Enhance your tasks, enhance student reasoning*. Webinar presentation to participants in the Alaska Staff Development Network (ASDN), Alaska. [invited]

33. **Bay-Williams, J. M.** (2019, October). *Flexibility: More than a teacher trait. Featured Session* at the regional meeting of the National Council of Teachers of Mathematics (NCTM), Salt Lake City, UT. [refereed]
34. **Bay-Williams, J. M.** (2019, October). *Culturally responsive mathematics instruction: From theory to practices. Featured Session* at the regional meeting of the National Council of Teachers of Mathematics (NCTM), Salt Lake City, UT. [invited]
35. **Bay-Williams, J. M.** (2019, October). *Supporting student's mathematical reasoning with the mathematical practices: It's story time.* Webinar presentation to participants in the Alaska Staff Development Network (ASDN), Alaska. [invited]
36. **Bay-Williams, J. M.** (2019, October). *Flexibility: More than a teacher trait. Featured Session* at the regional meeting of the National Council of Teachers of Mathematics (NCTM), Nashville, TN. [refereed]
37. Hall, M., & **Bay-Williams, J. M.** (2019, October). *Making interviews 'work' in math workshop.* Presentation at the regional meeting of the National Council of Teachers of Mathematics (NCTM), Nashville, TN. [refereed]
38. **Bay-Williams, J. M.** (2019, September). *Who's on first and What's on second...But Abbott & Costello are missing an outfielder! Strong questioning in the classroom. Keynote* presentation at the annual ECU Teachers Workshop: Student Success for All, Richmond, KY. [invited]
39. **Bay-Williams, J. M.** (2019, September). "Teaching and assessing basic facts with fluency in mind." Presentation at the annual ECU Teachers Workshop: Student Success for All, Richmond, KY. [invited]
40. **Bay-Williams, J. M.** (2019, September). "10 routines support procedural fluency and mathematical practices." Presentation at the annual ECU Teachers Workshop: Student Success for All, Richmond, KY. [invited]
41. **Bay-Williams, J. M.** (2019, September). "*Everything you Need for Mathematics Coaching: Discussion with the AR Math QuEST Leaders.* Webinar presentation to the mathematics specialists at the Arkansas Department of Education, Little Rock, AR.
42. **Bay-Williams, J. M.** (2019, September). "Fact fluency: Ensuring every student learns their facts and loves math." Two-day workshop for the Southeast Regional Professional Development Center and Southeast Missouri State University, Cape Girardeau, MO.
43. **Bay-Williams, J. M.** (2019, August). "8 great ways to ensure tasks are supporting strategic competence and flexibility (6-12)." **Keynote** presentation at the North Carolina State University (NCSU) Annual Math Summit, Raleigh, NC. [invited]

44. **Bay-Williams, J. M.** (2019, August). “8 great ways to ensure tasks are supporting strategic competence and flexibility (K-5).” **Keynote** presentation at the North Carolina State University (NCSU) Annual Math Summit, Raleigh, NC. [invited]
45. **Bay-Williams, J. M.** (2019, August). “Fact fluency: Effective strategies for teaching and assessing basic math facts.” Full-day workshop for T-TAC at Old Dominion University, Norfolk, VA. [invited]
46. **Bay-Williams, J. M.** (2019, July). “Who is on first and What is on second...But Abbott & Costello are missing an outfielder!” **Keynote** presentation at the Florida Council of Teachers of Mathematics Summer Mini-Conference, Palm Beach, FL. [invited]
47. **Bay-Williams, J. M.** (2019, July). “Making a difference in students' understanding and fluency.” Presentation at the Florida Council of Teachers of Mathematics Summer Mini-Conference, Palm Beach, FL. [invited]
48. **Bay-Williams, J. M.** (2019, July). “Developing flexibility with fraction operations.” Presentation at the Florida Council of Teachers of Mathematics Summer Mini-Conference, Palm Beach, FL. [invited]
49. **Bay-Williams, J. M.** (2019, May). “AMTE Standards Summit II: Improving mathematics teacher education in Kentucky with the *AMTE Standards for the Preparation of Teachers of Mathematics*.” Two-day facilitated event for the Kentucky Association of Mathematics Teacher Educators (KAMTE), Louisville, KY. [invited]
50. **Bay-Williams, J. M.** (2019, March). “The neglected components of fluency.” **Keynote** presentation at the Virginia Valley Council of Teachers of Mathematics (V<sup>2</sup>CTM), Harrisonburg, VA. [invited]
51. **Bay-Williams, J. M.** (2019, March). “Engaging families in fact fluency.” Webinar presentation to participants in the Alaska Staff Development Network (ASDN), Alaska. [invited]
52. **Bay-Williams, J. M.** (2019, March). “Assess basic facts like they are important.” Webinar presentation to participants in the Alaska Staff Development Network (ASDN), Alaska. [invited]
53. **Bay-Williams, J. M.** (2019, February). “A games-based, strategy-focused fluency plan.” Webinar presentation to participants in the Alaska Staff Development Network (ASDN), Alaska. [invited]
54. **Bay-Williams, J. M.** (2019, February). “The ‘basics’ of effective basic fact fluency instruction.” Webinar presentation to participants in the Alaska Staff Development Network (ASDN), Alaska. [invited]
55. **Bay-Williams, J. M.** (2019, January). Developing “strong” mathematicians:

The importance of flexibility (K-12). **Keynote** presentation at the annual Alaska Effective Instruction Institute, Anchorage, AK. [invited]

56. **Bay-Williams, J. M.** (2019, January). Strategies to support and challenge linguistically and culturally diverse students (K-5). Presentation at the annual Alaska Effective Instruction Institute, Anchorage, AK. [invited]
57. **Bay-Williams, J. M.** (2019, January). Strategies to support and challenge linguistically and culturally diverse students (6-12). Presentation at the annual Alaska Effective Instruction Institute, Anchorage, AK. [invited]
58. **Bay-Williams, J. M.** (2018, December). “Who’s on First, but Abbott & Costello are Missing an Outfielder.” **Keynote** “Slam” presentation at the annual meeting of the Association of Teachers of Mathematics of New England (ATMNE). [invited]
59. **Bay-Williams, J. M.** (2018, December). “Tools and strategies to build procedural fluency.” Presentation at the annual meeting of the Association of Teachers of Mathematics of New England (ATMNE). [invited]
60. **Bay-Williams, J. M.** (2018, November). “Engaging families in fact fluency.” Webinar presentation to participants in the Alaska Staff Development Network (ASDN). AK. [invited]
61. **Bay-Williams, J. M.** (2018, November). “Coaching to strengthen students (and teachers) procedural fluency and conceptual understanding.” **Keynote** presentation at the Mississippi Mathematics Specialists Conference. [invited]
62. **Bay-Williams, J. M.** (2018, November). “Assess basic facts like they are important.” Webinar presentation to participants in the Alaska Staff Development Network (ASDN). AK. [invited]
63. **Bay-Williams, J. M.** (2018, November). “5 fundamentals of addition fact fluency.” Paper presented at the regional meeting of the National Council of Teachers of Mathematics (NCTM), Kansas City, KS. [refereed]
64. **Bay-Williams, J. M., & McGatha, M.** (2018, November). “Using *Shifts in Classroom Practice* to promote procedural fluency (and conceptual understanding).” **Featured Session** presented at the regional meeting of the National Council of Teachers of Mathematics (NCTM), Kansas City, KS. [invited]
65. **Bay-Williams, J. M.** (2018, October). “Setting a Course to Develop Mathematically Proficient Students.” **Keynote** presentation at the Virginia Council of Mathematics Supervisors (VCMS), Richmond, VA. [invited]
66. **Bay-Williams, J. M.** (2018, October). “A games-based, strategy-focused fluency plan.” Webinar presentation to participants in the Alaska Staff Development Network (ASDN). AK. [invited]



67. **Bay-Williams, J. M.** (2018, October). “The ‘basics’ of effective basic fact fluency instruction.” Webinar presentation to participants in the Alaska Staff Development Network (ASDN). AK. [invited]
68. **Bay-Williams, J. M.** (2018, October). “Coaching to Impact Student Learning: Making Connections Explicit!” **Keynote** presentation at the Virginia Council of Mathematics Specialists (VACMS), Fredericksburg, VA. [invited]
69. **Bay-Williams, J. M.** (2018, October). “Coaching to Promote Flexibility and Strategy-Use in K-5 Classrooms.” Presentation at the Virginia Council of Mathematics Specialists (VACMS), Fredericksburg, VA. [invited]
70. **Bay-Williams, J. M.** (2018, October). “Coaching to Promote Flexibility and Strategy-Use in Middle and High School Classrooms.” Presentation at the Virginia Council of Mathematics Specialists (VACMS), Fredericksburg, VA. [invited]
71. **Bay-Williams, J. M.** (2018, September). ““Who's on first and why is in left field...But Abbott & Costello are missing an outfielder!” **Keynote** presentation at the Arizona Association of Teachers of Mathematics annual meeting, Phoenix, AZ. [invited]
72. **Bay-Williams, J. M.** (2018, September). “Teaching and assessing basic facts with fluency in mind.” Presentation at the Arizona Association of Teachers of Mathematics annual meeting, Phoenix, AZ. [invited]
73. **Bay-Williams, J. M.** (2018, September). “Developing ‘strong’ mathematicians: The importance of flexibility” Preconference all-day workshop at the Arizona Association of Teachers of Mathematics annual meeting, Phoenix, AZ. [invited]
74. **Bay-Williams, J. M.** (2018, September). “Leading to support procedural fluency for every student.” Presentation for the Florida Council of Teachers of Mathematics fall leadership meeting, Orlando, FL. [invited]
75. **Bay-Williams, J. M.** (2018, August). “Assessing basic fact fluency.” Presentation at the Greg Tang Baltimore Math Institute, Baltimore, MD. [invited]
76. **Bay-Williams, J. M.** (2018, August). “Fundamentals of teaching basic fact fluency: K-2.” Presentation at the Greg Tang Baltimore Math Institute, Baltimore, MD. [invited]
77. **Bay-Williams, J. M.** (2018, August). “Fundamentals of teaching basic fact fluency: 3-5.” Presentation at the Greg Tang Baltimore Math Institute, Baltimore, MD. [invited]
78. **Bay-Williams, J. M.** (2018, August). “Procedural fluency in middle school: Applying properties to build understanding.” Presentation at the Greg Tang Baltimore Math Institute, Baltimore, MD. [invited]

79. **Bay-Williams, J. M.** (2018, August). “Number sense and fluency in K-5.” Presentation at the Greg Tang Baltimore Math Institute, Baltimore, MD. [invited]
80. **Bay-Williams, J. M.** (2018, August). “Expressions, equations and functions in Grades 6-8.” Presentation at the Greg Tang Baltimore Math Institute, Baltimore, MD. [invited]
81. **Bay-Williams, J. M.** (2018, July). “Assess basic fact fluency like it’s important.” Presentation at the Greg Tang New England Math Institute, Boston, MA. [invited]
82. **Bay-Williams, J. M.** (2018, July). “Fundamentals of teaching basic fact fluency: K-2.” Presentation at the Greg Tang New England Math Institute, Boston, MA. [invited]
83. **Bay-Williams, J. M.** (2018, July). “Fundamentals of teaching basic fact fluency: 3-5.” Presentation at the Greg Tang New England Math Institute, Boston, MA. [invited]
84. **Bay-Williams, J. M.** (2018, July). “Procedural fluency in middle school: Applying properties to build understanding.” Presentation at the Greg Tang New England Math Institute, Boston, MA. [invited]
85. **Bay-Williams, J. M.** (2018, July). “Why and when and other questions we need to ask to develop mathematical proficiency.” Presentation at the Greg Tang New England Math Institute, Boston, MA. [invited]
86. **Bay-Williams, J. M.** (2018, July). “Why did  $y =$  become  $f(x) = ?$  Exploring equations and functions in Grades 6-8.” Presentation at the Greg Tang New England Math Institute, Boston, MA. [invited]
87. **Bay-Williams, J. M.** (2018, July). “Assess basic fact fluency like it’s important.” Presentation at the Greg Tang Northwest Math Institute, Seattle, WA. [invited]
88. **Bay-Williams, J. M.** (2018, July). “Fundamentals of teaching basic fact fluency: K-2.” Presentation at the Greg Tang Northwest Math Institute, Seattle, WA. [invited]
89. **Bay-Williams, J. M.** (2018, July). “Fundamentals of teaching basic fact fluency: 3-5.” Presentation at the Greg Tang Northwest Math Institute, Seattle, WA. [invited]
90. **Bay-Williams, J. M.** (2018, July). “Procedural fluency in middle school: Applying properties to build understanding.” Presentation at the Greg Tang Northwest Math Institute, Seattle, WA. [invited]
91. **Bay-Williams, J. M.** (2018, July). “Why and when and other questions we need to ask to develop mathematical proficiency.” Presentation at the Greg Tang

Northwest Math Institute, Seattle, WA. [invited]

92. **Bay-Williams, J. M.** (2018, July). “Why did  $y =$  become  $f(x) =$  ? Exploring equations and functions in Grades 6-8.” Presentation at the Greg Tang Northwest Math Institute, Seattle, WA. [invited]
93. **Bay-Williams, J. M.** (2018, July). “Off the beaten path: Six stops on the road to procedural fluency.” Presentation at the Making Math Matter Conference, Blue Springs, MO. [invited]
94. **Bay-Williams, J. M.** (2018, July). “Assess basic facts fluency like it’s important.” Presentation at the Making Math Matter Conference, Blue Springs, MO. [invited]
95. **Bay-Williams, J. M.** (2018, July). “Teaching basic facts with fluency in mind.” Presentation at the Making Math Matter Conference, Blue Springs, MO. [invited]
96. **Bay-Williams, J. M.** (2018, May). “Improving mathematics teacher education in Kentucky with the *AMTE Standards for the Preparation of Teachers of Mathematics*.” **Two-day workshop** for the Kentucky Association of Mathematics Teacher Educators (KAMTE), Louisville, KY. [invited]
97. **Bay-Williams, J. M.** (2018, April). “About ducks.” Address at the Annual Greater Louisville Council of Teachers of Mathematics (GLCTM) Awards Banquet, Louisville, KY. [invited]
98. **Bay-Williams, J. M.** (2018, April). “Mathematics coaching as a vehicle for supporting teacher content knowledge.” Presentation to the mathematics coaches of Pear School Solutions, Chicago, IL. [invited]
99. **Bay-Williams, J. M.** (2018, March). “Becoming fluent in how to support students procedural fluency” **Keynote** presentation at the annual meeting of the Kentucky Center for Mathematics (KCM), Lexington, KY. [invited]
100. **Bay-Williams, J. M.** (2018, March). “5 fundamentals of fact fluency” Presentation at the annual meeting of the Kentucky Center for Mathematics (KCM), Lexington, KY. [invited]
101. **Bay-Williams, J. M.** (2018, January). “Leading to support procedural fluency for every student” **Keynote** presentation at the biannual meeting of the Florida Association of Mathematics Supervisors (FAMS), Orlando, FL. [invited]
102. **Bay-Williams, J. M.** (2017, December). “Leading to support procedural fluency for every student.” Presentation at the South Carolina Leaders in Mathematics Education Conference, Columbia, S.C. [invited]
103. **Bay-Williams, J. M.** (2017, November). “Preparing the next generation of teachers of mathematics: Setting standards.” Paper presented at the regional meeting of the National Council of Teachers of Mathematics (NCTM), Chicago,

IL. [refereed]

104. **Bay-Williams, J. M.** (2017, November). “What characteristics describe a ‘well-prepared beginning teacher of mathematics?’” Presentation at the annual meeting of the Kentucky Council of Teachers of Mathematics (KCTM), Union, KY. [invited]
105. **Bay-Williams, J. M.** (2017, November). “8 instructional moves that engage Students and Develop Fluency.” **Keynote** presentation at the annual meeting of the Kentucky Council of Teachers of Mathematics (KCTM), Union, KY. [invited]
106. **Bay-Williams, J. M.** (2017, November). “About ducks.” Address at the Annual Kentucky Council of Teachers of Mathematics (KCTM) Mathematic Education Service Awards (MESA) banquet, Newport, KY. [invited]
107. **Bay-Williams, J. M.** (2017, November). “Games and assessment strategies to ensure addition and multiplication fact fluency.” Presentation at the Annual North Carolina Council of Teachers of Mathematics (NCCTM), Greensboro, NC. [invited]
108. **Bay-Williams, J. M.** (2017, November). “The journey to procedural fluency.” Presentation at the Fall North Carolina Council of Teachers of Mathematics (NCCTM) Leadership Seminar, Greensboro, NC. [invited]
109. Norton-Meier, L. M., & **Bay-Williams, J. M.** (2017, November). When literacy and math intersect in children's literature: Crossing subject area borders to create new possibilities for thinking and learning. Presentation at the annual Kentucky Reading Association Conference, Louisville, KY. [refereed]
110. **Bay-Williams, J. M.** (2017, July). “8 Instructional moves that engage students and develop fluency.” **Keynote** at the annual Meredith Mathematics Leadership Institute, Raleigh, NC. [invited]
111. **Bay-Williams, J. M.** (2017, July). “Questioning practices for coaching and teaching.” Presentation at the annual Meredith Mathematics Leadership Institute, Raleigh, NC. [invited]
112. **Bay-Williams, J. M.,** & Kling, G. (2017, March). “Teaching and assessing basic fact fluency.” 1-day presentation for the Grant Wood Area Education Agency, Cedar Rapids, IA. [invited]
113. **Bay-Williams, J. M.** (2017, July). Selecting textbooks for mathematical excellence. One-day workshop for the K-12 teacher leaders in New Prairie School District, New Carlisle, IN. [invited]
114. **Bay-Williams, J. M.** (2016, November). “Assessing basic fact fluency.” Presentation at the annual Indiana Council Teachers of Mathematics Conference, Indianapolis, IN. [invited]

115. **Bay-Williams, J. M.** (2016, November). “Teaching basic fact fluency.” Presentation at the annual Indiana Council Teachers of Mathematics Conference, Indianapolis, IN. [invited]
116. **Bay-Williams, J. M.** (2016, November). “Teaching multiplication of fractions developmentally.” Presentation at the annual Indiana Council Teachers of Mathematics Conference, Indianapolis, IN. [invited]
117. **Bay-Williams, J. M.** (2016, October). “Pathways to procedural fluency.” **Keynote** presentation at the annual Georgia Mathematics Conference, Eatonton, GA. [invited]
118. **Bay-Williams, J. M.** (2016, July). “Leading for mathematical proficiency: Making explicit connections to student outcomes” **Keynote** presentation at the annual Meredith Mathematics Leadership Institute, Raleigh, NC. [invited]
119. **Bay-Williams, J. M.** (2016, July). “Tips and tools for becoming an even better coach.” Presentation at the annual Meredith Mathematics Leadership Institute, Raleigh, NC. [invited]
120. **Bay-Williams, J. M.** (2016, July). “Strengthening your curriculum: Focus on fluency by connecting concepts and procedures, K-8.” Presentation at the annual Meredith Mathematics Leadership Institute, Raleigh, NC. [invited]
121. **Bay-Williams, J. M.** (2016, June). “Let’s operationalize procedural fluency!” Paper presented at the envision2.0 Kentucky Users Conference, Lexington, KY. [invited]
122. **Bay-Williams, J. M.** (2016, April). “Let’s operationalize procedural fluency!” Paper presented at the envision2.0 Users Conference, Burlington, MA. [invited]
123. **Bay-Williams, J. M.** (2016, March). “Pathways to fluency.” Paper presented at the annual M4 Conference, Kansas City, KS. [invited]
124. Larson, M., **Bay-Williams, J. M.**, San Giovanni, J. (2016, March). “Implementing *Principles to Action*.” **Panel** presentation at the annual M4 Conference, Kansas City, KS. [invited]
125. **Bay-Williams, J. M.** (2016, February). “Seeing the forest through the trees: Advocating for fluency for all students.” Georgia Council of Supervisors of Mathematics, Jekyll Island, GA. [invited]
126. **Bay-Williams, J. M.** (2016, January). “Redefining help: Research-based strategies for helping all students learn.” Presented at the regional meeting of the Central Texas Council of Teachers of Mathematics (CTCTM), Waco, TX. [invited]
127. **Bay-Williams, J. M.** & Glasser, R. (2015, November). “Strategies for

supporting algebraic thinking with English language learners.” Paper presented at the regional meeting of the National Council of Teachers of Mathematics (NCTM), Nashville, TN. [refereed]

128. **Bay-Williams, J. M.**, & Stokes-Levine, A. (2015, November). “Teaching and assessing basic fact fluency.” Paper presented at the regional meeting of the National Council of Teachers of Mathematics (NCTM), Nashville, TN. [refereed]
129. **Bay-Williams, J. M.** (2015, October). “Inspire, Innovate, Ignite: Seeing the forest through the trees in a time of reforestation: An allegory.” Opening session presented at the regional meeting of the National Council of Teachers of Mathematics (NCTM), Atlantic City, NJ. [refereed]
130. **Bay-Williams, J. M.** (2015, October). “7 strategies for supporting algebraic thinking with English language learners.” Paper presented at the regional meeting of the National Council of Teachers of Mathematics (NCTM), Atlantic City, NJ. [refereed]
131. **Bay-Williams, J. M.**, Wilkerson, T., & Briars, D. J. (2015, November). “Productive strategies for engaging students in productive struggle.” Paper presented at the regional meeting of the National Council of Teachers of Mathematics (NCTM), Nashville, TN. [invited]
132. **Bay-Williams, J. M.**, & Wilkerson, T. (2015, November). “Regional conference overview and orientation.” Presentation at the regional meeting of the National Council of Teachers of Mathematics (NCTM), Nashville, TN. [invited]
133. **Bay-Williams, J. M.**, Martinie, S. M., & Norton-Meier, L. M. (2015, November). “More SMART Books!” 2-day workshop for SMART Books inaugural event co-hosted by Kentucky Center for Mathematics (KCM), Collaborative Center for Literacy Development (CCLD), University of Louisville, and Kansas State University. [invited]
134. Martin, C., Briars, D. J., and **Bay-Williams, J. M.** (2015, October). “Productive strategies for engaging students in productive struggle.” Paper presented at the regional meeting of the National Council of Teachers of Mathematics (NCTM), Atlantic City, NJ. [invited]
135. **Bay-Williams, J. M.** (2015, September). “Developing fluency in addition and subtraction.” One-day workshop provided for the Southwest Georgia Regional Educational Service Agency (SWRESA), Camilla, GA. [invited]
136. **Bay-Williams, J. M.** (2015, September). “Developing fluency in multiplication and division.” One-day workshop provided for the Southwest Georgia Regional Educational Service Agency (SWRESA), Camilla, GA. [invited]
137. **Bay-Williams, J. M.** (2015, September). “K-2 math summit.” One-day workshop provided for the Middle Georgia Regional Educational Service Agency (MGRESA), Macon, GA. [invited]

138. **Bay-Williams, J. M.** (2015, September). “Grade 3-5 Math Summit.” One-day workshop provided for the Middle Georgia Regional Educational Service Agency (MGRESA), Macon, GA. [invited]
139. **Bay-Williams, J. M.** (2015, May). “Radical and real ways to help students become proficient in mathematics.” **Keynote** presented at the annual meeting of the Wisconsin Council of Teachers of Mathematics (WCTM), Greenlake, WI. [invited]
140. **Bay-Williams, J. M.** (2015, May). “Teaching basic facts with fluency in mind.” **Keynote** presented at the annual meeting of the Wisconsin Council of Teachers of Mathematics (WCTM), Greenlake, WI. [invited]
141. **Bay-Williams, J. M.** (2015, March). “Teaching student-centered mathematics: Algebraic Thinking in Grades 6-8.” Two one-day workshops provided for the Green River Regional Educational Cooperative (GRREC), Bowling Green, KY. [invited]
142. **Bay-Williams, J. M.** (2015, March). “A wonderful life: All students mathematically proficient.” **Keynote** presented at the annual meeting of the West Virginia Council of Teachers of Mathematics (WVCTM), Roanoke, WV. [invited]
143. **Bay-Williams, J. M.** (2015, March). “Teaching basic facts with fluency in mind.” Presentation at the annual meeting of the West Virginia Council of Teachers of Mathematics (WVCTM), Roanoke, WV. [invited]
144. **Bay-Williams, J. M.** (2015, March). “Where the wild strings are: Linear tools to develop fraction understanding.” Presentation at the annual meeting of the West Virginia Council of Teachers of Mathematics (WVCTM), Roanoke, WV. [invited]
145. **Bay-Williams, J. M.** (2014, November). “Mathematics coaching tools to support effective questioning and discourse.” Paper presented at the regional meeting of the National Council of Teachers of Mathematics (NCTM), Houston, TX. [refereed]
146. **Bay-Williams, J. M.** (2014, November). “Teaching student-centered mathematics: Ratios and Proportions in Grades 6-8.” Two one-day workshops provided for the Green River Regional Educational Cooperative (GRREC), Bowling Green, KY. [invited]
147. **Bay-Williams, J. M.** (2014, October). “Developing the knowledge and desire to live outside the box.” **Plenary session** for the Georgia Supervisors of Mathematics annual meeting, Atlanta, GA. [invited]
148. **Bay-Williams, J. M., Phillip, Randy, & Umland, Kristin** (2014, September). “A national vision for mathematics teacher educators.” **Panel** presentation for the Association of Mathematics Teacher Educators – Texas (AMTE-TX) Annual

Conference, Wako, TX. [invited]

149. **Bay-Williams, J. M.** & McGatha, M. (2014, August). “Common Core SMP: From standards to action.” Presentation for South Oldham Middle School, Crestwood, KY. [invited]
150. **Bay-Williams, J. M.**, Pitts, T., (2014, June) “Developing number sense and algebraic thinking.” Continuous Assessment and Algebraic Thinking (CAAT) 3-Day Summer Institute, Lexington, KY. [invited]
151. **Bay-Williams, J. M.** (2014, March). “Elementary and middle school mathematics: Using the Professional Development Edition.” Two-day presentation to Kentucky mathematics coaches and leaders [PIMSER], Lexington, KY. [invited]
152. **Bay-Williams, J. M.** (2013, December). “Seven “radical and real” ways to help students become proficient in operations and number.” [Keynote] Paper presentation at the Missouri Council of Teachers of Mathematics (MCTM) Annual Meeting, Columbia, MO. [invited]
153. **Bay-Williams, J. M.**, McGatha, M. B., & Kobett, B. (2013, November). “Coaching tools to support CCSS content and mathematical practices.” Paper presented at the regional meeting of the National Council of Teachers of Mathematics (NCTM), Louisville, KY. [refereed]
154. **Bay-Williams, J. M.** (2013, November). “An equation for success with English language learners.” [Keynote] Paper presented at the regional meeting of the National Council of Teachers of Mathematics (NCTM), Louisville, KY. [invited]
155. Glasser, R. M., & **Bay-Williams, J. M.** (2013, October). “Numbers, languages, and Standards, Oh my!” Presentation at the Kentucky TESOL Conference, Louisville, KY. [refereed]
156. Glasser, R. M., Bronger, L., & **Bay-Williams, J. M.** (2013, October). “Algebraic thinking and English language learners: Building background and success.” Paper presented at the regional meeting of the National Council of Teachers of Mathematics (NCTM), Las Vegas, NV. [refereed]
157. **Bay-Williams, J. M.**, McGatha, M. B., & Kobett, B. (2013, October). “Coaching tools to support CCSS content and mathematical practices.” Paper presented at the regional meeting of the National Council of Teachers of Mathematics (NCTM), Las Vegas, NV. [refereed]
158. **Bay-Williams, J. M.** (2013, October). “Seven “radical and real” ways to help Students become proficient in operations and number.” [Keynote] Paper presentation at the North Carolina Council of Teachers of Mathematics (NCCTM) Annual Meeting, Greensboro, NC. [invited]



159. **Bay-Williams, J. M.** (2013, November). “An equation for success with English language learners.” [Keynote] Paper presented at the regional meeting of the National Council of Teachers of Mathematics (NCTM), Louisville, KY. [invited]
160. Karp, K., & **Bay-Williams, J. M.** (2013, November). “Teaching student-centered mathematics: A hands-on workshop developing whole number operations and fraction concepts in Grades 1-3.” Workshop provided for the Green River Regional Educational Cooperative (GRREC), Bowling Green, KY. [invited]
161. **Bay-Williams, J. M.** (2013, October). “Eight “core” ideas to define our CCSS Journey to Mathematical Proficiency.” [Keynote] Paper presented at the annual meeting of the Kansas Association of Teachers of Mathematics (KATM), Junction City, KS. [invited]
162. **Bay-Williams, J. M.** (2013, October). “Developing fluency in the operations.” Paper presented at the annual meeting of the Kansas Association of Teachers of Mathematics (KATM), Junction City, KS. [invited]
163. **Bay-Williams, J. M.** (2013, October). “Fractions: Interventions and advancement.” Paper presented at the annual meeting of the Kansas Association of Teachers of Mathematics (KATM), Junction City, KS. [invited]
164. **Bay-Williams, J. M.** (2013, October). “From common core to common understanding to common implementation: A professional learning journey.” 3-hour workshop provided for all principals, Kansas City, Kansas Public Schools Kansas City, KS. [invited]
165. **Bay-Williams, J. M.** (2013, October). “Coaching tools for supporting the Common Core State Standards for Mathematical Practices!” 3-hour workshop provided for mathematics teacher leaders, Kansas City, Kansas Public Schools Kansas City, KS. [invited]
166. **Bay-Williams, J. M., & Karp, K.** (2013, September). “Teaching student-centered mathematics: A hands-on workshop developing fraction concepts and operations in Grades 4-6.” Workshop provided for the Green River Regional Educational Cooperative (GRREC), Bowling Green, KY. [invited]
167. **Bay-Williams, J. M.** (2013, July). “What does it mean to develop procedural fluency in elementary school?” Presentation at the annual PIMSER Meeting the Challenge Conference, Lexington, KY. [invited]
168. **Bay-Williams, J. M.** (2013, July). “Implementing the mathematical practices to ensure all students learn CCSS content goals.” Presentation at the annual PIMSER Meeting the Challenge Conference, Lexington, KY. [invited]
169. **Bay-Williams, J. M.** (2013, July). what does it mean to develop fluency with rational numbers in middle school?” Presentation at the annual PIMSER Meeting

the Challenge Conference, Lexington, KY. [invited]

170. **Bay-Williams, J. M.**, Pitts, T., (2013, June) “Continuous Assessment and algebraic thinking.” Continuous Assessment and Algebraic Thinking (CAAT) 2-Day Summer Institute, Lexington, KY. [invited]
171. **Bay-Williams, J. M.** (2013, June). “Critical thinking through the CCSS Standards for Mathematical Practice.” Paper presentation at the Critical thinking with the Common Core Conference, Murfreesboro, TN. [invited]
172. Upton, S. J., Miller, S. K., Chon, K. H., & **Bay-Williams, J.** (2012, November). “Improvement followed by collapse: Understanding the failure to maintain intervention gains from comprehensive school reform.” Paper presented at the annual meeting of the Mid-South Educational Research Association, Lexington, KY. [refereed]
173. **Bay-Williams, J. M.** (2012, July). “Elementary and middle school mathematics: Teaching fractions developmentally!” Pre-session at the annual PIMSER Meeting the Challenge, Lexington, KY. [invited]
174. **Bay-Williams, J. M., & McGatha, M. B.** (2012, July). “Coaching tools for supporting the Common core state Standards for mathematical practices!” Presentation at the Kentucky Association of School Administrators (KASA), Lexington, KY. [invited]
175. **Bay-Williams, J. M., & McGatha, M. B.** (2012, July). ”Coaching tools for supporting the Common core state Standards for mathematical practices!” Presentation at the Kentucky Association of School Administrators (KASA), Bowling Green, KY. [invited]
176. **Bay-Williams, J. M.**, Pitts, T., (2012, June) ”Continuous Assessment and Algebraic Thinking (CAAT) .” 2-Day Summer Institute, Lexington, KY. [invited]
177. **Bay-Williams, J. M.** (2012, May) ”Implementing Common Core State Standards (CCSS)– Mathematics: Insights on professional development. ” Presentation to leaders in Raleigh School District, Raleigh, W.V. [invited]
178. **Bay-Williams, J. M.** (2012, March) ”Implementing Common Core State Standards (CCSS)– Mathematics: Notes on professional development. ” Presentation to West Virginia State Department mathematics leaders, Charleston, W.V. [invited]
179. **Bay-Williams, J. M.** (2012, March). “Elementary and middle school mathematics: Using the Professional Development Edition. ” Two-day presentation to Kentucky mathematics coaches and leaders [PIMSER], Lexington, KY. [invited]
180. **Bay-Williams, J. M.**, & Hunter, S. (2011, December). “Analyzing Student Work.” Follow-Up Presentation for Success With an Academy in Mathematics

(SWAM), Carroll County, KY. [invited]

181. **Bay-Williams, J. M.** (2011, November). “Seeking Common Ground: Finding Common Language and Pursuing Common Goals for All.” [**Opening Session**]. Paper presentation at the annual meeting of the Appalachian Association of Mathematics Teacher Educators (AAMTE), Huntington, W.V. [invited]
182. **Bay-Williams, J. M.** (2011, October). “Redefining help: Research-based strategies for helping all students learn.” Paper presented at the regional meeting of the National Council of Teachers of Mathematics (NCTM), St. Louis, MO. [refereed]
183. **Bay-Williams, J. M.** (2011, October). “Teaching the basic facts to reflect the vision of the Common Core State Standards.” Paper presented at the annual meeting of the Kentucky Council of Teachers of Mathematics (KCTM), Bowling Green, KY. [refereed]
184. McGatha, M. & **Bay-Williams, J. M.** (2011, October). “Supporting the Mathematical Practices: What’s in your coaching toolkit?” Paper presented at the annual meeting of the Kentucky Council of Teachers of Mathematics (KCTM), Bowling Green, KY. [refereed]
185. **Bay-Williams, J. M.** (2011, October). “Using and Assessing High Quality Tasks in Teaching Mathematics.” Follow-Up Presentation for Success With an Academy in Mathematics (SWAM), Trimble County, KY. [invited]
186. **Bay-Williams, J. M.**, Beswick, G., Parkey, T. (2011, August). “Teaching Mathematics: Focus on Formative Assessment and Infusing the Practices.” Presentation for the Making Algebra Connections (MAC) Project participants, Mount Sterling, KY. [invited]
187. **Bay-Williams, J. M.** (2011, June). “Teaching Mathematics Effectively to All Learners.” Pre-Conference all-day session at the annual Meeting the Challenge: Implementing Standards and Assessment Practices Conference. Lexington, KY. [invited]
188. **Bay-Williams, J. M.**, (2011, June). “Teaching Mathematics to English Language Learners: Considerations for Mathematics Coaches.” Presentation at the Summer Institute of the Elementary Mathematics Specialists and Teacher Leaders Project, Westminster, MD. [invited]
189. **Bay-Williams, J. M.**, McGatha, M., & Hunter, S. (2011, June). “Implementing Formative Assessment in Middle School Mathematics.” Summer Institute of Success With an Academy in Mathematics (SWAM), Shelbyville, KY. [invited]
190. **Bay-Williams, J. M.**, Hunter, S., & McGatha, M. (2011, March). Formative Assessment – Focus on Analyzing Student Work. All day Follow-up Session of Success With an Academy in Mathematics (SWAM), Shelbyville, KY. [invited]

191. **Bay-Williams, J. M.**, Beswick, G., Parkey, T. (2011, March). "Teaching Mathematics: Focus on the CCSS Standards for Mathematical Practice." Presentation for the Making Algebra Connections (MAC) Project participants, Mount Sterling, KY. [invited]
192. **Bay-Williams, J. M.**, Hunter, S., & McGatha, M. (2011, March). "What is Formative Assessment in Mathematics?" Opening Session of Success With an Academy in Mathematics (SWAM), Shelbyville, KY. [invited]
193. **Bay-Williams, J. M.** (2011, February). "Effective teaching and learning." Guest Lecture for graduate Psychology class, Spalding University, Louisville, KY. [invited]
194. **Bay-Williams, J. M.**, Beswick, G., Parkey, T. (2011, January). "Teaching Mathematics: Focus on the CCSS Standards for Mathematical Practice." Presentation for the Making Algebra Connections (MAC) Project participants, Mount Sterling, KY. [invited]
195. **Bay-Williams, J. M.**, Beswick, G., Stamm, V. (2010, September). "Making Algebra Connections: Focus on Arithmetic to Algebra." Presentation for the Making Algebra Connections (MAC) Project participants, Mount Sterling, KY. [invited]
196. **Bay-Williams, J. M.**, Beswick, G., Stamm, V. (2010, June). "Making Algebra Connections: Focus on Differentiated Instruction." Presentation for the Making Algebra Connections (MAC) Project participants, Mount Sterling, KY. [invited]
197. **Bay-Williams, J. M.**, Beswick, G., Stamm, V. (2010, April). "Making Algebra Connections: Focus on Connecting Rational Numbers to Algebraic Thinking." Presentation for the Making Algebra Connections Project participants, Mount Sterling, KY. [invited]
198. **Bay-Williams, J. M.**, Beswick, G., Stamm, V. (2010, March). "Making Algebra Connections: Focus on Rational Numbers." Presentation for the Making Algebra Connections (MAC) Project participants, Mount Sterling, KY. [invited]
199. **Bay-Williams, J. M.**, Beswick, G., Stamm, V. (2010, February). "Making Algebra Connections: Focus on Integers." Presentation for the Making Algebra Connections (MAC) Project participants, Mount Sterling, KY. [invited]
200. **Bay-Williams, J. M.** (2010, February). "Coordinate-ing questioning to improve student and teacher learning." [**Keynote**]. Paper presentation at the annual meeting of the Appalachian Association of Mathematics Teacher Educators (AAMTE), Huntington, W.V. [invited]
201. **Bay-Williams, J. M.**, Beswick, G., Stamm, V. (2009, December). "Supporting student number understanding and fluency." Presentation for the Making Algebra Connections Project participants, Mount Sterling, KY. [invited]

202. McGatha, M. & **Bay-Williams, J. M.** (2009, November). "How do we prepare elementary mathematics specialists? Insights from around the United States." Presentation at the annual conference of the Southeastern Regional Association of Teacher Educators (SRATE). Louisville, KY. [refereed]
203. **Bay-Williams, J. M.**, Beswick, G., Parkey, T., Stamm, V. (2009, November). "Teaching Growing Patterns." Presentation for the Making Algebra Connections (MAC) Project participants, Mount Sterling, KY. [invited]
204. **Bay-Williams, J. M.** (2009, November). "Quadrants of questioning: Plotting for success." [**Keynote**]. Paper presentation at the annual meeting of the Arkansas Council of Teachers of Mathematics (ACTM), Little Rock, AR. [invited]
205. **Bay-Williams, J. M.** (2009, October). "Equity in Mathematics Teacher Education." [**Keynote**]. Paper presentation at the annual meeting of the Appalachian Association of Mathematics Teacher Educators (AAMTE), Huntington, W.V. [invited]
206. Levinson, H., & **Bay-Williams, J. M.** (2009, October). "Success stories! What separates the best from the rest?" Paper presented at the annual meeting of the Kentucky Council of Teachers of Mathematics (KCTM), Paris, KY. [refereed]
207. **Bay-Williams, J. M.**, Beswick, G., Parkey, T. (2009, October). "Process Standards and Problem Solving." Presentation for the Making Algebra Connections (MAC) Project participants, Mount Sterling, KY. [invited]
208. **Bay-Williams, J. M.** (2009, May). "Developing a middle school math methods course: Priorities, practices, and field placements" [**Plenary Session**]. Presentation at the annual meeting of the Pennsylvania Association of Mathematics Teacher Educators (PAMTE), Shippensburg, PA. [invited]
209. **Bay-Williams, J. M.** (2009, May). "Including ideas from middle level curricula into preparation of mathematics teachers" [**Plenary Session**]. Presentation at the annual meeting of the Pennsylvania Association of Mathematics Teacher Educators (PAMTE), Shippensburg, PA. [invited]
210. **Bay-Williams, J. M.** (2009, April). "Four quadrants of questioning: Plotting for success." [**Keynote**]. Presentation at the annual meeting of the Missouri Math Teacher Leadership Conference, Lake Ozark, MO. [invited]
211. **Bay-Williams, J. M.** (2008, October). "Getting roped into mathematics: Using rope and string to learn important concepts in geometry, measurement, and number." Paper presented at the annual meeting of the Kentucky Council of Teachers of Mathematics (KCTM), Louisville, KY. [refereed]
212. **Bay-Williams, J. M.** (2008, September). "Effective practices for teaching and leading in high school mathematics." Presentation at the annual Missouri Mathematics Teacher Leadership Conference, Branson, MO. [invited]

213. **Bay-Williams, J. M.**, Billstein, R., Friel, S., & Rachlin, S. (2008, September). “Insights into leading teachers in K-12 mathematics.” **Panel** presentation at the annual Missouri Mathematics Teacher Leadership Conference, Branson, MO. [invited]
214. **Bay-Williams, J. M.** (2007, October). “What’s in our toolbox for assessing and supporting teacher practice?” Paper presented at the regional meeting of the National Council of Teachers of Mathematics (NCTM), Kansas City, MO. [refereed]
215. **Bay-Williams, J. M.** (2007, October). “Supporting ELLs in mathematics class: What we know and what we can do.” [**Keynote**]. National Council of Teachers of Mathematics (NCTM) Regional Meeting, Kansas City, MO. [invited]
216. **Bay-Williams, J. M.** (2007, July). “Integrating strategies for English language learners and standards-based mathematics.” [**Closing General Session**] Mathematics for English language learners (MELL) Annual Conference, San Marcos, TX. [invited]
217. **Bay-Williams, J., M.** (2006, October). “Supporting English language learners in a standards-based mathematics class.” Colorado Council of Teachers of Mathematics (CCTM), Denver, CO. [refereed]
218. **Bay-Williams, J., M.** (2006, October). “I see a pattern: Algebra for the primary grades.” Paper presented at the annual meeting of the Kentucky Council of Teachers of Mathematics (KCTM), Georgetown, KY. [refereed]
219. **Bay-Williams, J., M.** (2006, October). “Strategies to support ELLs in mathematics class.” Paper presented at the annual meeting of the Kentucky Council of Teachers of Mathematics (KCTM), Georgetown, KY. [refereed]
220. **Bay-Williams, J. M.** (2006, October). “Supporting English language learners in a standards-based mathematics class.” [**Keynote**]. Paper presented at the Colorado Council of Teachers of Mathematics (CCTM), Denver, CO. [invited]
221. **Bay-Williams, J., M.** (2006, October). “Strategies for supporting English language learners in Mathematics.” **Paper** presented at the Our Kids Summer Institute, Cedar Rapids, IA. [invited]
222. **Bay-Williams, J. M.** (2006, October). “Integrating strategies for English language learners and standards-based mathematics.” Colorado Council of Teachers of Mathematics (CCTM) [**Pre-session**], Denver, CO. [invited]
223. **Bay-Williams, J. M.** (2006, February). “Integrating standards-based mathematics and sheltered instruction.” **Paper** presented at the annual meeting for the Kansas Staff Development Council (KSDC), Wichita, KS. [invited]
224. Arbaugh, F., & **Bay-Williams, J. M.** (2005, February). “Classroom assessment and problem solving.” **Paper** presented at the annual pre-service

- teacher ACCLAIM conference, Lexington, KY. [invited]
225. **Bay-Williams, J. M.** (2004, October). "Children's literature across the middle school curriculum." Paper presented at the annual meeting of the Kansas Association of Teachers of Mathematics (KATM), Topeka, KS. [refereed]
  226. **Bay-Williams, J. M.** (2004, October). College networking. Presentation at the annual meeting of the Kansas Association of Teachers of Mathematics (KATM), Topeka, KS. [invited]
  227. **Bay-Williams, J. M.** (2004, October). "The young and the rest of us." Presentation at the annual meeting of the Kansas Association of Teachers of Mathematics (KATM), Topeka, KS. [invited]
  228. **Bay-Williams, J. M.** (2004, October). "Newcomers session." Presentation at the annual meeting of the Kansas Association of Teachers of Mathematics (KATM), Topeka, KS. [invited]
  229. **Bay-Williams, J. M.** (2004, September). Using questioning to engage students in problem solving." **Paper** presented at the annual ACCLAIM conference, Huntington, W.V. [invited]
  230. Allen, D. S., **Bay-Williams, J. M.**, Hancock, M. (2003, October). "Geometric thinking: Van Heile applications in grades K-5." Paper presented at the annual meeting of the Kansas Association of Teachers of Mathematics (KATM), Hays, KS. [refereed]
  231. **Bay-Williams, J. M.** (2003, October). "Newcomers session." Presentation at the annual meeting of the Kansas Association of Teachers of Mathematics (KATM), Hays, KS. [invited]
  232. **Bay-Williams, J. M.**, & Arbaugh, F. (2003, May). "Exploring the NSF-funded middle school mathematics curricula: A look at algebra." **Paper** presented at the annual meeting of the Wisconsin Council of Teachers of Mathematics (WCTM), Greenlake, WI. [invited]
  233. **Bay-Williams, J. M.** (2002, October). "Using children's literature to develop problem solving in middle school mathematics." Paper presented at the annual meeting of the Kansas Association of Teachers of Mathematics (KATM), Pittsburg, KS. [refereed]
  234. Arbaugh, F., & **Bay-Williams, J. M.** (2002, July). "Fostering successful implementation: Helpful strategies for supporting teachers and building community support." **Paper** presented at the annual meeting for the Indiana Council of Teachers of Mathematics (ICTM). Indianapolis, IN. [invited]
  235. **Bay-Williams, J. M.** (2002, June). "Mathematics in Context: An overview." Presentation at the Greenbush Summer Institute, Lawrence, KS. [invited]

236. **Bay-Williams, J. M.** (2002, June). "Teaching algebra with Mathematics in Context." Presentation at the Greenbush Summer Institute, Lawrence, KS. [invited]
237. **Bay-Williams, J. M., & Arbaugh, F.** (2002, January). "NSF-sponsored middle school mathematics curriculum." [**Keynote**] Paper presented at the Rhode Island State Leadership Coalition, Providence, RI. [invited]
238. **Bay-Williams, J. M.** (2002, January). "Using literature to teach mathematics in K-8." Presentation to teachers in the ESSDACK counties. Hutchinson, KS. [invited]
239. **Bay-Williams, J. M.** (2001, October). "What do TIMSS, TIMSS-R, and NAEP 2000 tell us about K-12 Mathematics?" Paper presented at the annual meeting of the Kansas Association of Teachers of Mathematics (KATM), Wichita, KS. [refereed]
240. **Bay-Williams, J. M.** (2001, October). "Great ideas for developing algebraic thinking in middle school students." Paper presented at the annual meeting of the Kansas Association of Teachers of Mathematics (KATM), Wichita, KS. [refereed]
241. **Bay-Williams, J. M.** (2001, October). "Exploring middle school standards-based mathematics curricula: What, why, how?" Paper presented at the annual meeting of the Kansas Association of Teachers of Mathematics (KATM), Wichita, KS. [refereed]
242. **Bay-Williams, J. M., Norton-Meier, L., DeNoon, D., & Richard, D.** (2001, October). "Great books, poems, and media for teaching geometry, algebra, and data in the intermediate grades." Paper presented at the annual meeting of the Kansas Association of Teachers of Mathematics (KATM), Wichita, KS. [refereed]
243. **Bay-Williams** (2001, October). "Everyday Mathematics, Investigations in Number, Data, and Space and Math Trailblazers: Promising options for standards-based elementary school mathematics curricula." Presentation for the faculty, Hays School District, Hays, KS. [invited]
244. **Bay-Williams, J. M.** (2001, October). "Implementing Mathematics in Context: What parents should know." Presentation to the parents in the ESSDACK regional consortium, Hutchinson, KS. [invited]
245. **Bay-Williams, J. M., & Hancock, M.** (2001, September). "Broad-based collaboration and K-16 simultaneous renewal." Presentation at the annual meeting of the Kansas PDS Coalition, Kansas City, KS. [refereed]
246. **Bay-Williams, J. M.** (2001, August). "From principles to practice: NCTM Academy for Professional Development - middle school." Presentation at the regional meeting of the National Council of Teachers of Mathematics (NCTM), Laramie, WY. [refereed]



247. **Bay, J. M.** (2000, October). “Harry Potter’s got math? Mathematical investigations from favorite children’s literature.” Paper presented at the regional meeting of the National Council of Teachers of Mathematics (NCTM), Omaha, NE. [refereed]
248. **Bay, J. M.** (2000, October). “In search of patterns: Algebra for elementary students.” Paper presented at the annual meeting of the Kansas Association of Teachers of Mathematics (KATM), Olathe, KS. [refereed]
249. **Bay, J. M.** (2000, October). “Standards-based middle school mathematics curricula.” Paper presented at the CESAME Science and Mathematics Curriculum Showcase, Boxborough, MA. [invited]
250. **Bay, J. M.** (2000, March). “From introduction through implementation with standards-based middle grades mathematics curricula: What the Show-Me Project can offer.” Paper presented at the CESAME Curriculum Implementation Forum, Nashua, N.H. [invited]
251. **Bay, J. M.,** & Wasman, D. G. (1999, November). “Activities from standards-based middle school mathematics curricula representing PSSM content strands.” Paper presented at the regional meeting of the National Council of Teachers of Mathematics (NCTM), Topeka, KS. [refereed]
252. **Bay, J. M.** (1999, June). “Mathematics in NSF-sponsored middle school mathematics curriculum.” **Paper** presented at the Mathematics/Science Partnership (MSP) Conference for Implementation of National Standards, Hattiesburg, MS. [invited]
253. **Bay, J. M.,** & Wasman, D. G. (1999, February). “Algebra activities in middle school: Ideas from NSF middle school curriculum projects.” Paper presented at the regional meeting of the National Council of Teachers of Mathematics (NCTM), Des Moines, IA. [refereed]
254. **Bay, J. M.,** Beem, J. K., & Papick, I. (1998, December). “Middle school student reactions to standards-based mathematics.” Paper presented at the Missouri Council of Teacher of Mathematics (MCTM) State Meeting, Columbia, MO. [refereed]
255. **Bay, J. M.** (1998, January). “You made it by a fraction! Using (lots of) manipulatives to teach equivalence and operations with fractions.” Paper presented at the regional meeting of the National Council of Teachers of Mathematics (NCTM), St. Louis, MO. [refereed]

### ***District/School/University***

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1. **Bay-Williams, J. M.** (2021, January). *Effective strategies for teaching and assessing basic facts*. All-day virtual institute for Hunter Elementary School,

- Fairbanks, AK.
2. **Bay-Williams, J. M.** (2020, November). *Learning basic facts for years (not fears)*. Workshop for prospective teachers at the Benedictine University, Lisle, IL.
  3. **Bay-Williams, J. M.** (2020, February). *Who's on first? How Abbott & Costello's iconic skit can help us be better math teachers*. **Keynote** presentation at St Johns County Math Mini Conference, St. Augustine, FL.
  4. **Bay-Williams, J. M.** (2020, January). *Shifting teaching to support student engagement in Middle and High School*. One-day workshop for the Wentzville School District, Wentzville, MO. [invited]
  5. **Bay-Williams, J. M.** (2020, January). *Teaching and assessing for math fact fluency: Ensuring students learn (and love) the basic facts*. One day workshop for the faculty of Williamsville School District, Williamsville, NY.
  6. **Bay-Williams, J. M.** (2019, November). *Being Intentional with the Mathematical Practices in Middle and High School*. One-day workshop for Kenai Peninsula Borough School District, Soldotna, AK.
  7. **Bay-Williams, J. M.** (2019, November). *Being Intentional with the Mathematical Practices in K-5*. One-day workshop for Kenai Peninsula Borough School District, Soldotna, AK.
  8. **Bay-Williams, J. M.** (2019, November). *Being Intentional with the Mathematical Practices in Middle and High School*. One-day workshop for Kenai Peninsula Borough School District, Homer, AK.
  9. **Bay-Williams, J. M.** (2019, November). *Being Intentional with the Mathematical Practices in K-5*. One-day workshop for Kenai Peninsula Borough School District, Homer, AK.
  10. **Bay-Williams, J. M.** (2019, November). *Math Fact Fluency: Question and Answer Session*. Webinar for Fairbanks School District elementary teachers, Fairbanks, AK.
  11. **Bay-Williams, J. M.** (2019, November). *Learning basic facts for years (not fears)*. Workshop for prospective teachers at the Benedictine University, Lisle, IL.
  12. **Bay-Williams, J. M.** (2019, October). *Fluency Development Through Games*. After school workshop for elementary teachers of Jefferson County Public Schools, Louisville, KY.
  13. **Bay-Williams, J. M.** (2019, September). *Fluency Development Through*

- Games*. Three after school workshops for elementary teachers of Jefferson County Public Schools, Louisville, KY.
14. **Bay-Williams, J. M.** (2019, September). *Fostering Math Practices in All Students: Developing Flexibility and Strategy Use in Middle and High School*. One-day workshop for Kenai Peninsula Borough School District, Soldotna, AK.
  15. **Bay-Williams, J. M.** (2019, September). *Fostering Math Practices in All Students: Developing Flexibility and Strategy Use in K-5*. One-day workshop for Kenai Peninsula Borough School District, Soldotna, AK.
  16. **Bay-Williams, J. M.** (2019, September). *Mathematics Practices for School Leaders*. One-day workshop for Kenai Peninsula Borough School District principals and other leaders, Soldotna, AK.
  17. **Bay-Williams, J. M.** (2019, September). *Fostering Math Practices in All Students: Developing Flexibility and Strategy Use in Middle and High School*. One-day workshop for Kenai Peninsula Borough School District, Homer, AK.
  18. **Bay-Williams, J. M.** (2019, August). *Fostering Math Practices in All Students: Developing Flexibility and Strategy Use in K-5*. One-day workshop for Kenai Peninsula Borough School District, Homer, AK.
  19. **Bay-Williams, J. M.** (2019, August). *Who's got Fluency? Automaticity? And, Now What?* Workshop for Grade 4-5 teachers of Park Hill School District, Park Hill, MO.
  20. **Bay-Williams, J. M.** (2019, August). *Know from memory " ≠ "Memorize": Here's what we REALLY Need to Accomplish by the end of Grades 2 and 3*. Workshop for Grade 2-3 teachers of Park Hill School District, Park Hill, MO.
  21. **Bay-Williams, J. M.** (2019, August). *Developing Number Relations, Images, and Strategies, Oh My?* Workshop for K – 1 teachers of Park Hill School District, Park Hill, MO.
  22. **Bay-Williams, J. M.** (2019, August). *Developing Basic Fact Fluency*. One-day workshop for teachers of mathematics through the Training and Technical Institute at Old Dominion University, Norfolk, VA.
  23. **Bay-Williams, J. M.** (2019, February). *Mathematics Initiatives at UofL and in Kentucky*. Presentation to the Ohio Valley Educational Cooperative (OVEC) Board of Directors, Frankfort, KY.
  24. **Bay-Williams, J. M.** (2019, February). *Developing Basic Fact Fluency*. One-day workshop for teachers of Charlotte-Mecklenburg Schools, Charlotte, NC.

25. **Bay-Williams, J. M.** (2018, November). *Making Sense of How to Teach Basic Facts*. Workshop for prospective teachers at the Benedictine University, Lisle, IL.
26. **Bay-Williams, J. M.** (2017, December). *Games and assessment strategies to ensure addition and multiplication fact fluency*. Presentation at the regional Pearson Learning dinner, Lexington, KY.
27. **Bay-Williams, J. M.** (2017, November). *Five Fact Fundamentals: Making Sense of How to Teach Basic Facts*. Workshop for prospective teachers at the Benedictine University, Lisle, IL.
28. **Bay-Williams, J. M.** (2017, October). *Teaching for basic fact fluency*. Half-Day workshop for the faculty at J.B. Atkinson Elementary School, Louisville, KY.
29. **Bay-Williams, J. M.** (2017, January). *Teaching fractions in Grades 3*. Half-day workshop with grade 3 teachers, Oldham County Schools, Louisville, KY.
30. **Bay-Williams, J. M.** (2016, October). *Teaching student-centered fractions in Grades 3-5*. 1-Day workshop for the faculty at Portland Elementary School, Louisville, KY.
31. **Bay-Williams, J. M.** (2016, October). *Developing fluency in Grades K-2*. 2-hour workshop for the faculty at Portland Elementary School, Louisville, KY.
32. **Bay-Williams, J. M.** (2016, August). *Developing fluency and understanding using manipulatives*. 1-Day workshop for the faculty at Portland Elementary School, Louisville, KY.
33. **Bay-Williams, J. M.** (2015, November). *Implementing the CCSS Content and Mathematical Practices*. 1-Day workshop for the faculty at South Oldham Middle School, Crestwood, KY.
34. **Bay-Williams, J. M.** (2015, November). *All in for Algebra: Preparing for lesson study*. 1-Day workshop for the faculty at Carroll County Middle School, Carroll County, KY.
35. **Bay-Williams, J. M., Hill, A., & Oak, D.** (2015, November). *All in for Algebra!* 1-Day workshop for the faculty at Carroll County Middle School, Carroll County, KY.
36. **Bay-Williams, J. M.** (2015, October). *Teaching mathematics in Grades 3-5*. Workshop for the grades 3-5 faculty at Carter Traditional School, Louisville, KY.
37. McGatha, M., & **Bay-Williams, J. M.** (2014, August). *Implementing the CCSS Content and Mathematical Practices*. 1-Day workshop for the faculty at South Oldham Middle School, Crestwood, KY.

38. **Bay-Williams, J. M.** (2014, September). *Infusing Mathematical Practices into the Workshop Lesson*. Presentation to elementary teachers, Carroll, KY.
39. **Bay-Williams, J. M.** (2014, September). *Implementing the CCSS Content and Mathematical Practices*. Presentation to the elementary mathematics specialists, Boone County, KY.
40. **Bay-Williams, J.M.** & McGatha, M. (2014, February). Richland one secondary mathematics institute. One-day presentation for Richland One School District, Columbia, SC.
41. McGatha, M. & **Bay-Williams, J. M.** (2014, February). Richland one elementary mathematics institute. One-day presentation for Richland One School District, Columbia, SC.
42. **Bay-Williams, J. M.** (2014, January). *Implementing the CCSS Content and Mathematical Practices: Grade level discussions*. K-2 content-focused professional development for the faculty of Liberty Elementary School, Goshen, KY.
43. **Bay-Williams, J. M.** (2014, January). *Implementing the CCSS Content and Mathematical Practices: Grade level discussions*. Grades 3-5 content-focused professional development for the faculty of Liberty Elementary School, Goshen, KY.
44. **Bay-Williams, J. M.** (2014, February). *Implementing the CCSS Content and Mathematical Practices: Grade level discussions*. Grades K-5 content-focused professional development for the faculty of Liberty Elementary School, Goshen, KY.
45. **Bay-Williams, J. M.**, & McGatha, M. (2013, December). Leading for mathematical proficiency. 2-Day institute for secondary mathematics coaches and leaders, Richland-One School District, Columbia, SC.
46. **Bay-Williams, J. M.** (2013, December). *Implementing the CCSS Content and Mathematical Practices*. 1-day workshop for the faculty of Westport Middle School, Louisville, KY.
47. **Bay-Williams, J. M.** (2013, October). *Implementing the CCSS Content and Mathematical Practices: Grade level discussions*. 1-day workshop for the faculty of Liberty Elementary School, Goshen, KY.
48. McGatha, M., & **Bay-Williams, J. M.** (2013, September). Leading for mathematical proficiency. 2-Day institute for elementary mathematics coaches and leaders, Richland-One School District, Columbia, SC.
49. **Bay-Williams, J. M.** (2013, October). *Implementing the CCSS Content and*

- Mathematical Practices: Grade level discussions.* 1-day workshop for the faculty of Liberty Elementary School, Goshen, KY.
50. **Bay-Williams, J. M.** (2013, August). *Implementing the Mathematical Practices.* 1-day workshop for the faculty of Liberty Elementary School, Goshen, KY.
  51. **Bay-Williams, J. M.** (2013, May). *Teaching the Common Core State Standards for Mathematics: Focus on the Mathematical Practices .* 1-day workshop for the faculty of Liberty Elementary School, Goshen, KY.
  52. **Bay-Williams, J. M., & McGatha, M.** (2012, September). Leading for mathematical proficiency. Pearson sponsored 2-Day institute for mathematics coaches and leaders, Salt Lake City, UT.
  53. **Bay-Williams, J. M.** (2012, August). Math and literature aligned to the CCSS-Mathematics: Grades 3-5. Presentation to the faculty of J.B. Atkinson Elementary School.
  54. **Bay-Williams, J. M.** (2012, August). Math and literature aligned to the CCSS-Mathematics: Grades K-2. Presentation to the faculty of J.B. Atkinson Elementary School.
  55. **Bay-Williams, J. M.** (2012, June). Teaching fractions for understanding in Grades 3-5, Jessamine County, KY.
  56. **Bay-Williams, J. M.** (2012, June). Teaching operations for understanding in Grades 3-5, Jessamine County, KY.
  57. **Bay-Williams, J. M., Pitts, T., & Maupin, M.** (2012, June). Jessamine County Elementary Math Academy: Connecting Questioning to Mathematical Practices, Jessamine County, KY.
  58. **Bay-Williams, J. M., Pitts, T., & Maupin, M.** (2012, June). Jessamine County Elementary Math Academy: Questioning and Digging Deep, Jessamine County, KY.
  59. **Bay-Williams, J. M., Pitts, T., & Maupin, M.** (2012, June). Jessamine County Elementary Math Academy: Mathematical Practices, Jessamine County, KY.
  60. **Bay-Williams, J. M.** (2011, November). *Teaching the Common Core State Standards for Mathematics: Number Constructs in K-2.* Presentation to the faculty of J.B. Atkinson Elementary School.
  61. **Bay-Williams, J. M.** (2011, November). *Teaching the Common Core State Standards for Mathematics: Rational Number in 3-5.* Presentation to the faculty of J.B. Atkinson Elementary School.

62. **Bay-Williams, J. M.** (2011, October). *Writing in Mathematics*. Presentation to the faculty of J.B. Atkinson Elementary School.
63. **Bay-Williams, J. M.** (2011, September). *Effective Teaching for All Learners: Teaching the Common Core State Standards*. Consultations with the Faculty of Crestwood Elementary School, Crestwood, KY.
64. **Bay-Williams, J. M.** (2011, September). *Effective Teaching for All Learners: Teaching the Common Core State Standards*. Consultations with the Faculty of Goshen Elementary School, Goshen, KY.
65. **Bay-Williams, J. M.** (2011, August). *Effective Teaching for All Learners: Teaching the Common Core State Standards*. Consultations with the Faculty of Crestwood Elementary School, Crestwood, KY.
66. **Bay-Williams, J. M.** (2011, August). *Effective Teaching for All Learners: Teaching the Common Core State Standards*. Presentation to the faculty of J.B. Atkinson Elementary School.
67. **Bay-Williams, J. M.** (2011, April). *Writing in Mathematics: Focus on Feedback*. Presentation to the Faculty of Goshen Elementary School, Goshen, KY.
68. **Bay-Williams, J. M.** (2011, March). *The 'Workshop Model Applied to Mathematics Teaching and Learning*. Presentation to the Faculty of Goshen Elementary School, Goshen, KY.
69. **Bay-Williams, J. M.** (2010, March). *Effective Teaching for All Learners: Lessons from Elementary and Middle School Mathematics: Teaching Developmentally*. Presentation to the leadership in Ohio Valley Education Cooperative (OVEC) Shelbyville, KY.
70. **Bay-Williams, J. M.** (2010, August). *Teaching Mathematics Equitably to All Students*. Paper presented to the faculty at Crestwood Elementary School, Crestwood, KY.
71. **Bay-Williams, J. M.** (2010, August). *Teaching and Assessing Mathematics for All Students*. Paper presented to the faculty at Centerfield Elementary School, Centerfield, KY.
72. Karp, K., & **Bay-Williams, J.M.** (2009, November). *Preparing for Paul-Weber Award*. Paper presented to the faculty at University of Louisville, Louisville, KY.
73. **Bay-Williams, J. M.** (2009, September). *Assessment for Adult Learners*. Paper presented to the faculty at ITT Technical Institute, Louisville, KY.

74. **Bay-Williams, J. M.** (2009, August). *Teaching Using the “Math Workshop Model.”* Paper presented to the K-2 faculty at Crestwood Elementary School, Crestwood, KY.
75. **Bay-Williams, J. M.** (2009, April). *Teaching mathematics and science to English language learners: What works?* Paper presented to the curriculum leaders in Jefferson County Public Schools, Louisville, KY.
76. **Bay-Williams, J. M.** (2008, December). *Considerations in adopting middle school textbooks.* Presentation to Spencer County middle school mathematics faculty, Spencer County Public Schools, Taylorsville, KY.
77. **Bay-Williams, J. M.** (2008, December). *Considerations in adopting elementary school textbooks.* Presentation to Spencer County elementary school mathematics lead teachers, Spencer County Public Schools, Taylorsville, KY.
78. **Bay-Williams, J. M.** (2008, March). *Questioning that supports higher-level thinking in middle school mathematics.* Presentation to Spencer County middle school mathematics faculty, Spencer County Public Schools, Taylorsville, KY.
79. **Bay-Williams, J. M.** (2008, March). *Algebraic thinking to support all learners.* One-day presentation for the 6<sup>th</sup> grade mathematics faculty, Jefferson County Public Schools (JCPS), Louisville, KY.
80. **Bay-Williams, J. M.** (2008, March). *Algebraic thinking in sixth grade: An overview of patterns and use of language.* Presentation for the 6<sup>th</sup> grade mathematics faculty, Jefferson County Public Schools (JCPS), Louisville, KY.
81. **Bay-Williams, J. M.** (2008, January). *Incorporating higher-level thinking in middle school mathematics.* Presentation to Spencer County middle school mathematics faculty, Spencer County Public Schools, Taylorsville, KY.
82. **Bay-Williams, J. M.**, (2007, July). *Developing algebraic thinking.* Presentation to the 8<sup>th</sup> grade mathematics faculty, Jefferson County Public Schools (JCPS), Louisville, KY.
83. Brown, E., & **Bay-Williams, J. M.** (2007, December). *Geometric thinking in middle school.* Presentation to Spencer County middle school mathematics faculty, Spencer County Public Schools, Taylorsville, KY.
84. **Bay-Williams, J. M.**, (2007, July). *Developing algebraic thinking.* Presentation to 8<sup>th</sup> grade mathematics faculty, Jefferson County Public Schools (JCPS), Louisville, KY.
85. **Bay-Williams, J. M.**, (2007, June). *Developing algebraic thinking.* Presentation to the 8<sup>th</sup> grade mathematics faculty, Jefferson County Public Schools, Louisville, KY.



86. **Bay-Williams, J. M.**, (2007, March). *Implementing Connected Mathematics Project*. Facilitated Lesson Study with the Faculty, Newport Middle School, Newport, KY.
87. **Bay-Williams, J. M.**, (2006, October). *Implementing Investigations in Number, Data, and Space*. Presentation to the leadership team, Morningside Elementary School, Elizabethtown, KY.
88. **Bay-Williams, J. M.** (2006, February). *Analyzing patterns of discourse in middle school mathematics teaching*. Presentation for the mathematics faculty at Central Middle School, Kansas City, KS.
89. **Bay-Williams, J. M.** (2006, January). *Effective teaching in K-12 mathematics*. Presentation to the faculty of Dodge City Public Schools, Dodge City, KS.
90. **Bay-Williams, J. M.**, & Hancock, M. J. (2005, November). *Classroom discussions: A focus on conceptual and procedural knowledge*. Presentation for the faculty of Central Middle School, Kansas City, KS.
91. **Bay-Williams, J. M.**, & Hancock, M. J. (2005, October). *Using higher level questioning in lesson planning*. Presentation for the faculty of Central Middle School, Kansas City, KS.
92. **Bay-Williams, J. M.**, & Hancock, M. J. (2005, September). *Teaching thinking through effective questioning*. Presentation for the faculty of Central Middle School, Kansas City, KS.
93. **Bay-Williams, J. M.**, & Hancock, M. (2005, June). *Integrating Sheltered Instruction Observation Protocol (SIOP) into K-16 content instruction*. Presentation at the PDS Equity and Access Summer Institute, Manhattan, KS.
94. **Bay-Williams, J. M.**, & Hancock, M. (2005, June). *Integrating Sheltered Instruction Observation Protocol (SIOP) with standards-based mathematics instruction in elementary school*. Presentation at the PDS Equity and Access Summer Institute, Manhattan, KS.
95. **Bay-Williams, J. M.**, & Martinie, S., M. (2005, June). *Integrating Sheltered Instruction Observation Protocol (SIOP) with standards-based mathematics instruction in secondary school*. Presentation at the PDS Equity and Access Summer Institute, Manhattan, KS.
96. **Bay-Williams, J. M.** (2005, April). *Lesson study: Using Cooperative learning strategies*. Presentation for the mathematics faculty of Central Middle School, Kansas City, KS.
97. **Bay-Williams, J. M.** (2005, April). *Algebra in the NSF-sponsored middle*

- school mathematics curricula*. Presentation to the middle and high school mathematics teachers of Geary County School District, Junction City, KS.
98. **Bay-Williams, J. M.** (2005, March). *Integrating Sheltered Instruction Observation Protocol (SIOP) with standards-based mathematics instruction in secondary schools*. Presentation at for the secondary mathematics faculty, Dodge City School District, Dodge City, KS.
  99. **Bay-Williams, J. M.** (2005, March). *Using a standards-based approach to instruction*. Presentation for the faculty of Northview Elementary School, Manhattan, KS.
  100. **Bay-Williams, J. M.** (2005, February). *Developing number sense in middle school*. One-day workshop for Wamego Middle School, Wamego, KS.
  101. **Bay-Williams, J. M.**, (2005, February). *Number sense in middle school*. One-day Workshop for the mathematics faculty of Wamego Middle School, Wamego, KS.
  102. **Bay-Williams, J. M.** (2005, February). *Teaching geometry in middle school*. Presentation at the KSU Geometry Winter Institute, Manhattan, KS.
  103. **Bay-Williams, J. M.** (2005, February). *Teaching measurement in middle school*. Presentation at the KSU Geometry Winter Institute, Manhattan, KS.
  104. **Bay-Williams, J. M.** (2005, January). *Integrating Sheltered Instruction Observation Protocol (SIOP) into Classrooms*. Presentation for the faculty of Central Middle School, Kansas City, KS.
  105. **Bay-Williams, J. M.**, & Hancock, M. (2005, January). *Using standards-based elementary programs in elementary school: A discussion*. Presentation for the faculty of Wamego Elementary Team Leaders, Wamego, KS.
  106. **Bay-Williams, J. M.** (2004, November). *Using a problem-based approach to instruction*. Presentation for the faculty of Lee Elementary School, Manhattan, KS.
  107. Evans, D. & **Bay-Williams, J. M.** (2004, November). *Teaching overseas workshop*. Panel presentation to the students of Kansas State University, Manhattan, KS.
  108. **Bay-Williams, J. M.**, & Shroyer, M. G. (2004, April). *Lesson study: Connected Mathematics Program (CMP) at Central Middle School*. One-day observation and discussion with teachers of Central Middle School, Kansas City, KS.
  109. **Bay-Williams, J. M.** (2004, March). *What does it mean to be a 'standards-*

- based' teacher?* Presentation to the faculty of Lee Elementary School, Manhattan, KS.
110. **Bay-Williams, J. M.** (2004, February). *Teaching overseas*. Presentation to the Delta Kappa Gamma Education Honor Society, Manhattan, KS.
  111. **Bay-Williams, J. M.** (2004, February). *Research on standards-based elementary mathematics curriculum*. Presentation to all Manhattan/Ogden School District elementary teachers, Manhattan, KS.
  112. **Bay-Williams, J. M.** (2004, February). *Teaching mathematics across the curriculum*. Presentation for the faculty of Eisenhower Middle School, Manhattan, KS.
  113. **Bay-Williams, J. M., & Allen, D. S.** (2004, February). *Research on elementary curriculum*. Presentation to all Manhattan/Ogden School District elementary teachers, Manhattan, KS.
  114. **Bay-Williams, J. M.** (2004, January). *Start with concrete: Building a strong foundation for student learning*. Presentation at the K-State Teaching Renewal Retreat: Spring into Spring Semester, Rock Springs, KS.
  115. **Bay-Williams, J. M.** (2003, June). *Teaching algebraic thinking in grades 6 - 12*. Presentation at the KSU Partnership Project Summer Institute, Manhattan, KS.
  116. **Bay-Williams, J. M.** (2003, June). *Standards-based instructional strategies in K - 12*. Presentation at the KSU Partnership Project Summer Institute, Manhattan, KS.
  117. **Bay-Williams, J. M.** (2003, February). *Orientation to Investigations in Number, Data, & Space: Intermediate grade-level unit studies*. Presentation for the Faculty at Amanda Arnold Elementary, Manhattan, KS.
  118. **Bay-Williams, J. M.** (2003, February). *Orientation to Investigations in Number, Data, & Space: Primary grade-level unit studies*. Presentation for the Faculty at Amanda Arnold Elementary, Manhattan, KS.
  119. **Bay-Williams, J. M.** (2003, February). *Developing conceptual understanding in mathematics*. Presentation for the Faculty at Amanda Arnold Elementary, Manhattan, KS.
  120. **Bay-Williams, J. M.** (2003, January). *Integrating mathematics and literature: A Collection of favorite ideas*. Presentation for the Geary County Reading Association, Junction City, KS.
  121. **Bay-Williams, J. M.** (2002, November). *Tips for effective tutoring in*

- mathematics*. Presentation to the KSU America\*Reads America\*Counts organization, Manhattan, KS.
122. **Bay-Williams, J. M.** (2002, October). *Using problem solving and problem-based instruction in elementary school*. Presentation to the faculty of Oak Grove School District, Oak Grove, KS.
  123. Evans, D., **Bay-Williams, J. M.**, Mittendorf, J., & Miller, E. (2002, October). *Teaching overseas workshop*. Presentation to the students of Kansas State University (KSU), Manhattan, KS.
  124. **Bay-Williams, J. M.** (2002, October). *Developing conceptual understanding in mathematics*. Presentation for the Faculty at Theodore Roosevelt Elementary, Manhattan, KS.
  125. **Bay-Williams, J. M.** & Hancock, M. (2002, September). *Implementing Investigations in Number, Data, and Space*. Presentation to the new faculty at M.E. Pearson Elementary School, Kansas City, KS.
  126. **Bay-Williams, J. M.** (2002, August). *Implementing the Connected Mathematics Project (CMP)*. Presentation for the middle school teachers of Council Grove School District, Council Grove, KS.
  127. **Bay-Williams, J. M.** (2002, June). *Developing conceptual understanding in mathematics*. Presentation at the Kansas State University (KSU) Partnership Project summer institute, Manhattan, KS.
  128. **Bay-Williams, J. M.** (2002, May). *Implementing the Connected Mathematics Project (CMP)* Presentation for the middle school teachers of Council Grove School District, Council Grove, KS.
  129. **Bay-Williams, J. M.** (2002, May). *Showcase of NSF-sponsored middle school mathematics curricula*. Presentation for the middle school teachers of Council Grove School District, Council Grove, KS.
  130. **Bay-Williams, J. M.** (2002, May). *Lesson study*. Model teaching and discussion with the faculty of Ogden Elementary School, Ogden, KS.
  131. **Bay-Williams, J. M.** (2002, April). *Merits of standards-based curricula*. Presentation to administrators, teachers, and parents of Webb City School District, Webb City, MO.
  132. **Bay-Williams, J. M.** & Hancock, M., Rader, L. (2002, April). *Implementing Investigations in Number, Data, and Space: Introducing New Units*. Presentation to the faculty at M.E. Pearson Elementary School, Kansas City, KS.
  133. Evans, D., **Bay-Williams, J. M.**, Romaniszyn, M., & Miller, E. (2002, April).

- Teaching overseas workshop*. Presentation to the students of Kansas State University (KSU), Manhattan, KS.
134. **Bay-Williams, J. M.** & Hancock, M. (2001, November). *Implementing Investigations in Number, Data, and Space: The Data Strand*. Presentation to the faculty at M.E. Pearson Elementary School, Kansas City, KS.
  135. **Bay-Williams, J. M.**, & Hancock, M. (2001, October). *Implementing Investigations in Number, Data, and Space: Next steps*. Presentation to the faculty at M.E. Pearson Elementary School, Kansas City, KS.
  136. **Bay-Williams, J. M.** (2001, September). *Developing conceptual and procedural understanding in elementary school mathematics*. Presentation to the faculty at Bluemont Elementary School, Manhattan, KS.
  137. **Bay-Williams, J. M.** (2001, September). *Golden rules for tutoring in mathematics*. Presentation to the KSU America\*Reads America\*Counts organization.
  138. **Bay-Williams, J. M.** (2001, July). *Teaching algebra in middle school: Effective Practices*. Five-day institute for middle school teachers, Lake Charles Parish, Lake Charles, LA.
  139. **Bay-Williams, J. M.**, & Hancock, M. (2001, June). *Getting to know Investigations in Number, Data, and Space: 2-Day curriculum showcase*. Presentation to the faculty at M.E. Pearson Elementary School, Kansas City, KS.
  140. **Bay-Williams, J. M.**, & Kuhne, B. (2001, June). *Implementing Investigations in Number, Data, and Space: Preparing for success*. Presentation to the teacher leaders, Auburn-Washburn School District, Topeka, KS.
  141. **Bay, J. M.** (2001, April). *Tips for tutoring in mathematics*. Presentation to the Kansas State University (KSU) America\*Reads America\*Counts organization, Manhattan, KS.
  142. **Bay, J. M.**, & Hancock (2001, March). *Considerations for Implementing Investigations in Number, Data, and Space* Presentation to the leadership cadre of M.E. Pearson Elementary School, Kansas City, KS.
  143. **Bay, J. M.**, & Hancock (2001, January). *Implementing CMP: A look at Prime Time and Bits & Pieces*. Presentation to the faculty of Central Middle School, Kansas City, KS.
  144. **Bay, J. M.** (November, 2000). *Improving middle school mathematics: Ideas from standards-based curricula*. Presentation for K – 12 teachers at Pleasant Plains School District, Pleasant Plains, IL.

145. **Bay, J. M.** (2000, October). *Implementing standards-based mathematics curricula: Why, what, how?* Parent Workshop for Manhattan/Ogden School District, Manhattan, KS.
146. **Bay, J. M.** (2000, September). Meaningful Mathematics Across the Curriculum. Presentation for faculty at Fort Riley Middle School, Junction City, KS.
147. **Bay, J. M.** (2000, September). *Problem solving and Investigations in Number, Data, and Space.* Presentation for Manhattan Public Schools elementary teachers, Manhattan, KS.
148. **Bay, J. M.** (2000, August). *Improving middle school mathematics: Ideas from standards-based curricula.* Workshop presented for K – 12 teachers at Pleasant Plains School District, Pleasant Plains, IL.
149. **Bay, J. M.,** Bennett, A., & Hancock, M. (2000, December). *Middle school standards-based curricula: Options and considerations.* Presentation to the middle school leadership cadre, Kansas City Unified School District, Kansas City, KS.
150. **Bay, J. M.** (1999, October). *Teaching fraction operations conceptually.* Presentation at the Quincy Conference, Quincy, IL.
151. **Bay, J. M.** (1999, October). *Algebra in NSF-sponsored middle school mathematics curricula.* Presentation at the Quincy Conference, Quincy, IL.
152. **Bay, J. M.,** & Simms, K. (1999, August). *Activities for teaching mathematics in elementary school and introduction to* Everyday Mathematics, Oskaloosa, KS.
153. **Bay, J. M.** (1998, August). *Using manipulatives in mathematics, Grades K-8.* All-day workshop at Edgar Springs School District, MO.

## **Teaching and Advising**

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### Initial Certification (BS and MAT) Courses

EDTP 396 Teaching Facts and Fractions (Fall 2020)

EDTP 313 P-5 Mathematics Methods + EDTP 314 Mathematics Methods Field Experience

EDTP 604 P-5 Mathematics Methods

EDTP 407/607/608/609 Middle and Secondary Mathematics Methods

EDTP477/677 Capstone (paired with student teaching)

## Advanced Graduate (M.Ed. and Ph.D.) Courses

### ***University of Louisville***

- EDAP 604 Mathematical Reasoning (2019, 2021)  
EDAP 604 Teaching Decimals and Fractions (2020)  
EDAP 604 Mathematics Coaching (2020)  
EDAP 646 Advanced Methods for Number and Algebra (2015, 2016, 2017, 2019)  
EDAP 647 Advanced Methods for Geometry, Measurement, and Statistics (2018)  
EDAP 694 Language and Culture in Mathematics and Science Teaching (2012)  
*Numerous independent studies (2007-present)*

### ***Kansas State University***

- EDEL 786 Topics: Number Sense and Operations (2005)  
EDEL 786 Topics: Teaching Geometry (2004)  
EDEL 886 Seminar: Teaching Algebra in K-12 (2003)  
EDEL 886 Seminar: Innovations in Mathematics Curriculum (2003)  
EDEL 786 Topics: Research Topics in Mathematics Education (2002)  
EDEL 786 Topics: Innovations in Mathematics Curriculum (2001)  
EDEL 786 Topics: Integrating Literature into Mathematics (2000, 2001)  
EDEL 786 Topics: Improving Middle School Mathematics and Science (2000)

### ***Chair/Co-Chair of Doctoral Committees - Completed***

- Rose Glasser (December 2017)  
Michael Raney (December 2016)  
Amy English Hunter (May 2012)  
Sherri Martinie (May 2007) [Received College Outstanding Graduate Student Award]  
Keith Dreiling (May 2007)  
Lanee Young (May 2007)  
Jeff Hurn (May 2006)  
Karena Curtis (May 2006)

## **Service to the Profession**

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### ***Leadership in State, National and International Projects***

University Faculty Associate, Kentucky Center for Mathematics (2020 – Present)

Mathematics Consultant, Makkajai Edu Tech Company [educational math apps], India

Member, National Panel of Experts, Ball State University and Muncie Community Schools (MCS) Partnership Academic Innovation Council (2018-2020)

Mathematics Coaching Consultant, Jamaica Ministry of Education, Youth and Information (MOEYI) (2018-2019)

Chair, Kentucky Committee for Mathematics Achievement (2018-2019)

University of Louisville Representative, Kentucky Committee for Mathematics Achievement (2016-2019) [Disbanded by Governor Bevin in Fall 2019]

Member, Kentucky Department of Education (KDE) [Office of Standards, Assessment and Accountability] Early Learning Round Table (2019) [Policy Advisory Group]

Member, Kentucky Department of Education (KDE) [Division of Assessment and Accountability Support] Mathematics Assessment Blueprint Advisory Panel (2018-2019)

Member, Kentucky Department of Education (KDE) [Division of IDEA Implementation and Preschool, Office of Special Education and Early Learning] Mathematics Walkthrough Team (2018-2019)

Member, Kentucky Department of Education (KDE) [Division of Program Standards] Mathematics Standards Advisory Panel (2018)

Kentucky Department of Education (KDE) [Division of Program Standards] Mathematics Standards Advisory Panel, subcommittee on Mathematical Practices (2018)

Member, Advisory Board, NSF-Funded Grant How to harness gesture and action in the classroom to teach mathematical equivalence (S. Goldin-Meadow, University of Chicago, PI and E. Wakefield, Loyola University-Chicago, Co-PI) (2016-2019)

Member, Knowles Science Teaching Foundation (KSTF) Fellows Program Selection Committee (2013)

Mathematics Consultant, Bridges International Academies, Nairobi, Kenya, 2012.

Facilitator, CBMS Forum on Content-Based Professional Development for Teachers of Mathematics, 2009, 2010.

Advisory Board, US-Teacher Education Development (U.S. TEDS) – Mathematics Study, 2006-Present

Advisory Board, US Pipeline Project, 2007 – 2010



Anchoring Workshop Participant, I.E.A. Teacher Education Development Study (TEDS)-Mathematics, 2009.

Consultant, KeyMath Mathematics Essential Resources, Pearson Assessments, 2007-2008

Consultant, Indiana-STEM Project, Purdue University, 2006-2007.

Advisory Board, NSF-funded, *Math Themes* Curriculum Revision, Rick Billstein, Principal Investigator, University of Montana, 2003 – 2005.

Regional Associate, NSF-Funded Project Titled, Show-Me Center (National Center for Dissemination of Standards-based Middle School Curricula), Barbara Reys, Principal Investigator, University of Missouri, 2001 – 2005.

Advisory Committee, NSF-Funded Project titled, Development of Courses and Recruitment Models for Attracting and Preparing Middle Grade Mathematics Teachers, Ira Papick, Principal Investigator, University of Missouri, 2001 – 2003.

External Advisory Committee for the Center of Excellence for Science and Mathematics Education (CESME), 1999.

## ***Leadership in Professional Organizations***

### **Association of Mathematics Teacher Educators (AMTE)**

Associate Vice President for Nominations and Elections Committee (2020 – 2023)

Member, Standards Dissemination Task Force (2017-2018)

Lead Writer, *Standards for the Preparation of Mathematics Teachers* (2015 – 2017)

Member, 25<sup>th</sup> Anniversary Recognition Task Force (2015-2017)

Member, Professional Development Committee (2013 – 2015)

Chair, 20<sup>th</sup> Anniversary Recognition Task Force (2010-2012)

Member, MET2 Review Task Force (2012)

Member, Advocacy Task Force (2010-2012)

Editorial Panel, *Journal of Mathematics Teacher Education*, Special Issue on Research on Equity Issues in Mathematics Teacher Education, 2009-2011

Past-president, 2009 – 2010

President, 2007 – 2009

President – Elect, 2006-2007

AMTE Web site Redesign Task Force, 2009-2010

Nominations and Elections Committee, 2006, 2009

Editorial Panel, Monograph #5, 2007

AMTE Task Force to review revision of Professional Standards for Teaching Mathematics (NCTM), 2005

Secretary (elected for two consecutive terms), 2001 – 2005

Constitution and Bylaws Committee, 2001-2005

Chair, AMTE Review of ACHIEVE Content Standards Task Force, 2003, 2004

### **Conference Board of the Mathematical Sciences (CBMS)**

Facilitator, CBMS Forum on Content and Assessment in School Mathematics, 2009

Member, 2007-2009

### **Kansas Association of Teachers of Mathematics (KATM)**

Vice President, College Programs, 2003 – 2005

Principal Investigator and Organizer, *The Young and the Rest of Us* Mentoring program, 2004-2006

### **Kappa Delta Pi (KDP) International Education Honor Society**

Chapter counselor, 2002 – 2010

Convocation Planning Committee, 2007

Convocation Proposal Reviewer, 2007

National Scholarship Reviewer, 2007

### **National Council of Supervisors of Mathematics (NCSM)**

Featured or Spotlight Speaker, Annual Meetings annually 2014, 2015, 2016, 2017, 2019

Review Team, NCSM Essential Actions: Mathematics Coaching

Reviewer, PRIME Leadership Standards, 2007

Invited Speaker, Annual Meetings 2007, 2008, 2009

### **National Council of Teachers of Mathematics (NCTM)**

Associate Editor, *Mathematics Teacher: Learning and Teaching PK-12*, 2021 – 2024

CAEP/NCTM Standards Revision Task Force, 2017 – 2020

Leadership Task Force, 2016 – 2017

Executive Committee of the Board of Directors, 2016 – 2017

Board of Directors, 2014 – 2017

Capital Gains Committee, 2014 – 2017

Board Liaison, Classroom Resources Committee, 2015 – 2017

Reviewer, *Journal for Research in Mathematics Education* (JRME), 2008 – present  
Reviewer, *Mathematics Teaching in the Middle School* (MTMS), 1999 – 2019  
Reviewer, *Teaching Children Mathematics* (TCM), 1999 – 2019  
Board Liaison, Student Explorations in Mathematics (publication), 2014 – 2015  
NCTM 74<sup>th</sup> 2012 Yearbook Editor, 2008 – 2012  
St. Louis Program Committee Member, NCTM Regional Meeting, 2010-2011  
Author for several NCTM Book Series: *On the Money*, 2015-2018; *Essential Understandings*, 2011; *Research to Practice*, 2009; *Navigations*, 2008.  
NCTM Equity Summit, AMTE Representative, 2008, 2009  
Chair, Emerging Issues Committee, 2008 – 2009  
Member, Emerging Issues Committee, 2007 – 2009  
NCTM Leadership Task Force, 2006 – 2007  
NCTM Review Task Force for Milgrim Report, 2004 – 2005  
Department Editor, Spotlight on the Principles, *MTMS*, 2002 – 2005  
Presenter, *NCTM Academy for Professional Development*, 2000 – 2004  
Department Editor, Take Time for Action, *MTMS*. 1999 – 2003  
Developer, *NCTM Academy for Professional Development, Algebra – Middle School* (2001) and *Principles to Practice – Middle School* (2000)  
Department Editor, Innovations in Curriculum, *MTMS*, 1999 – 2000

### **National Science Foundation**

NSF Review Panelist, 2019, 2018, 2016, 2012, 2004, 2002

### **Teacher2Teacher Global**

Member, Board of Directors, 2021 - Present

### **TODOS: Mathematics for All**

Chair, Advocacy Committee, 2017 - 2020

Member-at-Large, Board of Directors, 2010-2012; 2017 - 2020

Member, Resources Committee, 2015-present

Program Chair, 1<sup>st</sup> National Independent Conference (2014), 2012-2014

Chair, Student Affiliates Committee, 2010- 2012

## ***Editing***

Associate Editor, *Mathematics Teacher: Learning and Teaching PK-12 Journal*, National Council of Teachers of Mathematics (NCTM), 2021 – 20224

Writing Coach, *Mathematics Teacher: Learning and Teaching PK-12 Journal*, 2019.

Editorial Panel, NCTM Student Explorations in Mathematics. 2014 – 2015.

Issue Editor, NCTM 74<sup>th</sup> Yearbook: Professional Collaborations in Mathematics Teaching and Learning: Seeking Success for All. 2008 – 2012. (Publication date: 2012).

Editorial Panel, *Journal of Mathematics Teacher Education (JMTE)* Special Issue: Equity in Mathematics Teacher Education. 2009-2011.

Content Editor, *Math Trailblazers Administrator's Guide*. Chicago: Kendall Hunt. 2009.

Content Editor, *Math Trailblazers Teacher Implementation Guide (TIG)*. Chicago: Kendall Hunt. 2007-2008.

Editorial Panel, AMTE Monograph Series, *The Work of Mathematics Teacher Educators*, Volume IV. 2005-2006.

Editor, Spotlight on the Principles department of *Mathematics Teaching in the Middle School* (focused on implementing the NCTM Principles). 2002-2005.

Editor, Take Time for Action department of *Mathematics Teaching in the Middle School* (focused on sharing action research with other teachers). 1999 – 2003.

Editor, Innovations in Curriculum department of *Mathematics Teaching in the Middle School* (focused on standards-based curriculum). 1999 – 2000.

## **Service to the University/College/Department**

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### **University**

Mentor, University mentoring program (2020 – present)

Presidential Distinguished Service Awards Selection Committee, 2019

Participant, Provost-Chair Professional Development Series, 2010-2015

Member, Faculty Learning Community Senate Bill 1- Mathematics, 2012

ESL Program Contact/Partner with A&S English/Humanities, 2007 – 2010

Delphi Center Workshops (2) “Paul-Weber Award Winners: Strategies for Success,” 2009

Distinguished Service Award Screening Committee, 2007

University Faculty Grievance Committee, KSU, 2005 – 2006

College of Education Representative, University General Education (UGE) University  
Committee, 2000 – 2001

Teaching Overseas Workshops, 1 per year, 2001 – 2006

Effective Tutoring in Math Workshops for \*AmericaReads\*AmericaCounts\*, 2001 –  
2005

### **College (University of Louisville College of Education and Human Development)**

Member, College Personnel Committee, 2020 - Present

Member, Budget and Planning Committee, 2017 – 2020

Member, BS Teacher Education Redesign Adhoc Committees (elementary and  
middle/secondary), 2020 - Present

Member, Mathematics Educator Search Committee (Early Childhood and Elementary  
Education), 2019.

Signature Partnership Initiative School Liaison (J.B. Atkinson), 2017- Present

Member, Recruiter Search Committee (Education Advising and Student Services), 2019.

Director, Creating options in the M.Ed. in Teacher Leader to Prepare Teachers to Teach  
Dual Credit Courses, 2017

Member, Mathematics Educator Search Committee (Early Childhood and Elementary  
Education), 2015-2017.

CARDS to CREATE Advisory Team, 2013 - 2016

CEHD Cabinet, Member 2008-2017

CEHD Deans/Chairs, Member 2008-2017

OEDCP Advisory Team, 2007-2017

Curriculum and Instruction Graduate Faculty Committee, 2011- 2014

New Faculty Mentor, 2009-2014

College Student Grievance Committee, 2006 – 2010

College Educator Preparation Committee, 2007-2011

Signature Partnership Initiative (SPI) Advisory Team, 2007 – 2010

Kappa Delta Pi Chapter Counselor, Education Honor Society, 1999 – 2010

Chair, Standard III Self Study Group, 2006-2009

## **Department**

Chair, Mathematics Education Search Committee, 2020.  
Coordinator, Elementary Mathematics Specialist Program, 2017-Present  
Member, Ed.S. Development Team, 2019-Present  
Reviewer, MAT Transcripts (STEM majors), 2015-Present  
Participant, MAT Information Sessions (1-2 per year), 2006 – 2018  
Member, Teaching and Learning Leadership Team, 2006-2017  
Chair, Field and Clinical Coordinator Search Committee, 2015  
Chair, Instructor Search Committee, 2013-2014  
Coordinator/Advisor, ESL Jumpstart Program, 2008 - 2010  
Chair, Middle/Secondary Program Group, 2009-2010  
Master's Redesign Committee, 2007-2010  
Assistant Department Chair, 2007 – 2010  
Chair, Social Studies Search Committee, 2008-2009  
UofL KTIP Lesson Design Working Group, 2007-2008  
Personnel Committee, 2006-2008  
Chair, ESL Search Committee, UofL, 2006-2007

## **Community and Schools**

Member, Greater Louisville Council of Teachers of Mathematics (GLCTM)  
Consultant, Oldham County Elementary Schools (Crestwood, Centerfield, Goshen, Liberty),  
2008-Present  
Member, Universal Design for Learning (UDL) Committee (JCPS), 2008-2011  
Reviewer, JCPS Creativity and Entrepreneurship Awards, 2010  
Member, Atkinson Design Team, 2008-2010  
Consultant, Spencer County Public Schools (Math Curriculum), 2007-2009  
Consultant, Jefferson County Public Schools (ESL & Math), 2007-2009

## **Honors and Awards**

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Faculty Favorite list (2020)

Greater Louisville Council of Teachers of Mathematics (GLCTM) Helen Cunningham Educator Award for Excellence in Teaching Mathematics (2018)

Kansas University Lelon Capps Lecturer, Lelon Capps Lecture Series Inaugural Speaker (2018).

University of Louisville Distinguished Service Award (2018).

Association of Mathematics Teacher Educators (AMTE) Outstanding Service on the Leadership Team for the *Standards for the Preparation of Teachers of Mathematics* (2017)

Carroll County Schools “A Champion for Kids” Award, designated for “Her Passion for Developing Outstanding Mathematics Instruction” (2016)

University of Missouri Citation of Merit for Outstanding Achievement and Meritorious Service (2013)

University of Louisville Student Athlete Red and Black Banquet Faculty Mentor (2012) [Natasha Leickly].

Kentucky Council of Teachers of Mathematics (KCTM) Mathematics Education Service and Achievement (M.E.S.A.) Award, Louisville, KY (2008).

Rock Bridge High School Hall of Fame Inductee. Rock Bridge High School, Columbia, MO (2004).

Nominee, Advisor of the Year Award [Advisor for Kappa Delta Pi], KSU (2004, 2006).

Commerce Bank Outstanding Undergraduate Teaching Award, College of Education, KSU (2003).

Excellence in Graduate Faculty Teaching Award, College of Education, KSU (2002)

Kappa Delta Pi Teacher of the Year Award; Manhattan, KS (2001).

Selected as Middle School Developer and Presenter for National Council of Teachers of Mathematics (NCTM) Academies for Professional Development (2000-2001).

Robert M. Frank Fellowship; Columbia, MO (1998-1999).

G. Ellsworth Huggins Graduate Scholarship (\$28,000); Columbia, MO (1995-1999).

Ruth E. Norris Scholarship; Columbia, MO (1997–1998).

Donald K. Anderson Graduate Teaching Award; Columbia, MO (1997).

Kappa Delta Pi Teacher of the Year Award; Columbia, MO (1997).

P.E.O. Scholar Award (\$7,000); Columbia, MO (1996-1997).

Dr. Sodienye Bendbow Memorial Scholarship; Columbia, MO (1996).

Nominee for National Science Foundation Presidential Award; Lima, Peru (1993).  
Representative, Mathematics and Science Education Center; St. Louis, MO (1989-1991).  
Nominee for Lewis Award for Outstanding First Year Teacher; Columbia, MO (1987).

## **Professional Memberships**

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ASCD

Association of Mathematics Teacher Educators (AMTE)

Greater Louisville Council of Teachers of Mathematics (GLCTM)

Kentucky Council of Teachers of Mathematics (KCTM)

National Council of Supervisors of Mathematics (NCSM)

National Council of Teachers of Mathematics (NCTM)

TODOS: Mathematics for All