

JENNIFER M. BAY-WILLIAMS

Department of Teaching and Learning, Rm. 259♦University of Louisville♦Louisville, KY 40292

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Education

- 1999 Ph.D., University of Missouri, Columbia, MO.
Major: Curriculum and Instruction, Emphasis in Mathematics Education, K -12.
Dissertation Title: "Middle School Mathematics Curriculum Implementation: The Dynamics of Change as Teachers Introduce and Use Standards-based Curricula"
- 1989 M.Ed., Secondary Education, University of Missouri, Columbia, MO.
- 1987 B.A., Mathematics and Secondary Education, DePauw University, Greencastle, IN.

Professional Positions

- 2006-Present Associate Professor, University of Louisville.
- 2003-2006 Associate Professor, Kansas State University.
- 1999-2003 Assistant Professor, Kansas State University.
- 1995-1999 Graduate Research Assistant for ShowMe Project and Missouri Middle-school Mathematics (M³) Project.
- 1997-1998 Graduate Teaching Assistant, University of Missouri.
- 1995-1996 Mathematics Teacher, Oakland Middle School.
- 1991-1995 Mathematics Teacher and K-12 Mathematics Coordinator, Colegio Franklin Delano Roosevelt, Lima, Peru.
- 1989-1991 Mathematics Teacher, Eureka Junior High School, St. Louis, MO.
- 1987-1989 Mathematics Teacher, Jefferson Junior High School, Columbia, MO.

Journal Publications

- Bay-Williams, J. M. (2007). Showing your Work: Beyond Following Steps. *Mathematics Teaching in the Middle School*, 12(6), 338-339.
- Bay-Williams, J. M. (2007). From 1912 to today: What do we think about Algebra in elementary school? *Teaching Children Mathematics*, 13(5), 248-251.
- 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.
- 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.
- 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.
- Bay-Williams, J. M., & Martinie, S. L. (2004). What does algebraic thinking look like? *Mathematics Teaching in the Middle School*, 10(4), 198-199.
- 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. (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>.
- 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.
- Bay-Williams, J. M., & Meyer, M. R. (2003). What parents want to know about standards-based mathematics curricula. *Principal Leadership*, 3(7), 54 - 60.
- 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.
- 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.

- 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.
- 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.
- Bay-Williams, J. M., & Norton-Meier, L. A. (2002). Bringing a mathematical eye to children's literature. *Kansas Journal of Reading*, 18, 24-31.
- Bay-Williams, J. M. (2001). What is algebra in elementary school? *Teaching Children Mathematics*, 8(4), 196-200.
- 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.
- Bay, J. M. (2000). Linking problem solving to student achievement in mathematics: Issues and outcomes. *Journal of School Improvement*, 1(2), 8 - 13.
- 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.
- 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.
- Bay, J. M., & Wasman, D. G. (2000). Making the coordinate grid come to life with human graphing. *Mathematics Teacher*, 93(7), 553-554.
- 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.
- 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.
- Reys, B. J., Kim, O., & Bay, J. M. (1999). Establishing fraction benchmarks. *Mathematics Teaching in the Middle School*, 4(8), 530 - 532.

- 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.
- Bay, J. M., & Wasman, D. G. (1998). Middle school mathematics curricula! *The Golden Rectangle*, 4(3), 2, 4.
- Reys, R. E., Bay, J., Bledsoe, A., & Cook, D. (1997). Squaring Sweden. *Namnaren*, 24(3), 30 - 33.

Book Chapters

- Bay-Williams, J. M., & McGraw, R. (in press). Meeting the challenges of implementing a standards-based curriculum. In Langrall, C. & Meier, M. (Eds.) *A Decade of Middle School Mathematics Curriculum Implementation: Lessons Learned from the Show-Me Project*.
- 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.
- 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.
- 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.
- 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.

Books

- Bay-Williams, J. M. (2007). *Field Experience Guide for Elementary and Middle School Mathematics*. Boston, MA: Pearson Education.

Masalski, W., Boster, C. Vennebush, P., Bassarear, T., Bay-Williams, J. M., et al. (2007). *Interactive School Mathematics: Computer-based Curriculum – Course 3*. MathResources.com.

Bay-Williams, J. M. & Martinie, S. L. (2004). *Mathematics and Literature: Grades 6 - 8*. Sausalito, CA: Math Solutions Publications.

Pugalee, David, Farrell, A., Bay-Williams, J. M., Mathews, S., Royster, D., & Arbaugh, F. (in press). *Navigating through Connections in Grades 6 – 8*. National Council of Teachers of Mathematics.

Bay-Williams, J. M. & Martinie, S. L. (in press). *Mathematics and Nonfiction: Middle School*. Sausalito, CA: Math Solutions Publications.

Van de Walle, J., Karp, K., & Bay-Williams, J. M. (in development). *Elementary and middle school mathematics: Teaching developmentally (Seventh Edition)*. New York: Allyn & Bacon.

Edited Books

Bay-Williams, J. M., and Karp, K. (Eds.)(in press). *Growing Professionally: Readings from NCTM Publications for Grades K-8*. Reston, VA: National Council of Teachers of Mathematics.

Paper Presentations (Refereed)

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.

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.

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.

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.

Bay-Williams, J. M., & Bezuk, N. (2008, April). *First-timer's session*. Paper presented at the annual meeting of the Association Mathematics Teacher Educators (AMTE), Tulsa, OK.

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.

Thompson, C., Brown, T. Bush, B., & Bay-Williams, J. M., (2008, January). *The Alignment of NCTM's 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.

Bay-Williams, J. M. (2007, October). *What's in our toolbox for assessing and supporting teacher practice?* National Council of Teachers of Mathematics (NCTM) Regional Meeting, Kansas City, MO.

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.

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.

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.

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.

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.

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.

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.

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.

Bay-Williams, J., M. (2006, October). "I see a pattern: Algebra for the primary grades." Kentucky Council of Teachers of Mathematics (KCTM) annual meeting, Georgetown, KY.

Bay-Williams, J., M. (2006, October). *Strategies to support ELLs in mathematics class*. Kentucky Council of Teachers of Mathematics (KCTM) annual meeting, Georgetown, KY.

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, Anaheim, CA.

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 Pre-session to the National Council of Teachers of Mathematics, Anaheim, CA.

Martinie, S., & Bay-Williams, J. M. (2005, April). *Middle school students' developing knowledge of decimals*. Poster session presented at the annual meeting of the American Educational Research Association, Montreal, CA.

Preston, R., & Bay-Williams, J. (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.

Bay-Williams, J. M. (2004, September). *A collection of ideas for using standards-based curriculum in methods courses and field experiences*. Poster session at the Mathematical Preparation of Middle School Mathematics Teachers Conference, St. Louis, MO.

- 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.
- 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, Philadelphia, PA.
- 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 STEMTP Meeting, Washington, DC.
- 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 presentation at the annual meeting of the Research Presession to the National Council of Teachers of Mathematics, San Antonio, TX.
- 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, New Orleans, LA.
- 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.
- 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.
- 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.

Invited Publications

- Bay-Williams, J. M. (in press). Language and Math Trailblazers. In *Math Trailblazers*

Teacher Implementation Guide. Chicago: Kendall Hunt.

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., Shroyer, M. G., Hancock, M., Scott, M. B. (2004, March). The amoeba of simultaneous renewal and the residue it leaves behind. National Science Foundation STEMTP Meeting Proceedings.

Additional Non-refereed Publications

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).

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.

Bay-Williams, J. M. (2004, August). Join us for the Kansas Premiere of *The Young and the Rest of Us!* *KATM Bulletin*, special conference issue, p. 3.

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).

Bay-Williams, J. M., Bell, E., & Oehme, K. (2002). "Attitudinal Differences Towards Mathematics." Final paper for honor's program research.

Bay-Williams, J. M. (2001, October). "Pointing out AMTE New Appointments." *AMTE News*, 11 (1).

Bay-Williams, J. M. (2001). *T³ Academy Project Evaluation Summary*. Final Report of Research Findings, T³ Academy, January 2000 – July 2001.

Bay-Williams, J. M., Buck, M. & Pierre, M. (2001). *Navigating Through Algebra: Middle School 5-Day Academy Binder*, Reston, VA: NCTM.

Bay, J. M. & Stewart, J. (2000). *NCTM Academy: Middle School 2-Day Academy Binder*, Reston, VA: NCTM.

Bay, J. M. & Goldston, M. J. (2000). *Implementation and sustainability of curricular change in science and mathematics: Issues and concerns*. In Grace, M. & Smith, K. Monograph: International Consortium for Research in Science and Mathematics Education (ICRSME VIII), San Jose, Costa Rica.

Editing

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.

Grants

Written & Funded

"The Young and the Rest of Us: Supporting New Teachers in the Daytime Drama of Teaching" (\$1,500). Kenneth B. Cummins Award. Funding Source: 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 (Principal Investigator with Barbara Reys).

Recognition of Work

Article reprint in *From Standards to Success: A Guide for School Leaders* by Mark Oshea, ASCD, 2005.

Source for article titled, "Changing Society Creates Challenges for Teachers", news release prepared by Charlie Cook (KSU Media & Relations), October 4, 2004.

Featured in NCSM Newsletter 35 (1), Fall 2004, "Spotlight on Jennifer Bay-Williams."

PBS Teacherline on-line video series. Showcases the NCTM Middle School Academy, with intermittent interviews of Jennifer Bay and Jacqueline Stewart (available at <http://teacherline.pbs.org/teacherline/>).

Interview with KKSU-AM 580. "How Parents Can be Active in Schools." Fifteen-minute interview, October, 2001.

Source for article titled, "Parents have important role in parent-teacher communications", news release prepared by Charlie Cook (KSU Media & Relations), October 4, 2001.

The Association for Supervision and Curriculum Development (ASCD) selected the Phi Delta Kappan article, "The top 10 elements that must be in place to implement standards-based mathematics curricula" to appear in the *ASCD Professional Inquiry Kit*, 2000.

Teaching and Advising,

University of Louisville

Undergraduate Courses Developed and Instructed:

EDTP 604 P-5 Mathematics Methods

EDTP 607/609 Middle and Secondary Mathematics Methods

Kansas State University

Undergraduate Courses Developed and Instructed:

EDEL 473 Elementary/Middle Level Mathematics Methods

EDEL 420 Block A Clinical Experience

Graduate Courses Developed and Instructed:

EDEL 786 Topics: Improving Middle School Mathematics and Science (summer 2000)

EDEL 786 Topics: Integrating Literature into Mathematics (Summer 2000 and 2001)

EDEL 786 Topics: Innovations in Mathematics Curriculum (Spring 2001)

EDEL 786 Topics: Research Topics in Mathematics Education (Spring 2002)

EDEL 886 Seminar: Teaching Algebra in K-12 (Spring 2003)

EDEL 886 Seminar: Innovations in Mathematics Curriculum (Summer 2003)

EDEL 786 Topics: Teaching Geometry (Summer 2004)

EDEL 786 Topics: Number Sense and Operations (Summer 2005)

Graduate Advising

PhD Candidates – Major Professor - Completed

Jeff Hurn (2006), Karena Curtis (2006), Sherri Martinie (2007), Keith Dreiling (2007), and Lanee Young (2007).

PhD Candidates – Co-Chair Dissertation Committee -In Progress

Debbie Waggoner

PhD Candidates – Dissertation Committee Member – In Progress

Vicky-Lynn Wilson, Johnny Belcher

PhD Candidates – Dissertation Committee Member-Completed

Cynthia McQueen Dunn (2000).

PhD Candidates – Examination Committee Member – In Progress

Julie Williams

PhD Candidates – Examination Committee Member – Completed

Vicky-Lynn Wilson (2007), Debbie Waggoner (2007), and Johnny Belcher (2007)

Master’s Advising

Current Load is 3 MEd candidates.

Service to the Profession (other than editing)

2008	Attendee, NCTM Equity Summit
2008	Chair, Emerging Issues Committee, NCTM
2006-2010	President, Association of Mathematics Teacher Educators (AMTE) (President-Elect 2006-07; Past-President 2008-2009).
2007	National Convocation Committee, Kappa Delta Pi (KDP)
2007	National Scholarship Committee, Kappa Delta Pi (KDP)
2007-2008	Member, NCTM Emerging Issues Committee
2007-Present	Advisory Board, US-TEDS Project
2007 – Present	Advisory Board, US Pipeline Project
2003, 2005	Panelist/Proposal Reviewer, National Science Foundation
2005	AMTE Task Force to review revision of Professional Standards for Teaching Mathematics (NCTM)
2004 - 2005	Member, NCTM Review Task Force for Milgrim Report

- 2003 – 2005 Vice President, College Programs, Kansas Association of Teachers of Mathematics (KATM)
- 2003 – 2005 Advisory Team. NSF-funded Project Titled, “Math Thematics Curriculum Revision,” Rick Billstein, Principal Investigator, University of Montana.
- 2001 – 2005 Secretary, Association for Mathematics Teacher Educators (AMTE) (elected for two terms)
- 2001 – 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 – 2003 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.
- 2000 – 2004 Presenter, *NCTM Academies for Professional Development*.
- 1999 – present Reviewer, *Mathematics Teaching in the Middle School*.
- 2001 Facilitator and Participant, *Teacherline*.
- 1999 – 2001 Consultant, Show-Me Center (National Center for Dissemination of Standards-based Middle School Curricula).

Service to the University

Committees

- 2007 Distinguished Service Award Screening Committee, University of Louisville
- 2005 – 2006 Member, University Faculty Grievance Committee
- 2001 – 2006 Representative, NCATE Subcommittee on Standard 1 (Elementary Education)
- 2004 - 2005 College of Education Curriculum Studies Search Committee
- 2003 - 2005 College of Education Reading Search Committee

1999 - present	Faculty Advisor for Kappa Delta Pi, Education Honor Society (nominated by KDP for Excellence in Advising Award, 2004)
2004 - 2005	Member, COE Excellence in Undergraduate Teaching Award Committee
2003 - 2004	Chair, COE Excellence in Graduate Teaching Award Committee
2003 - 2004	College of Education Middle School Committee
2003 - 2004	College of Education Middle School Task Force
2002 - 2003	Mentor (through Mentoring Program) for David Allen
2000- 2003	Department of Elementary Education Representative, Teacher Education Advisory Committee (TEAC)
1999 - 2003	Participant & Mentor, College of Education Mentoring Program
2002	Research Mentor, Honors Program, COE
2002	Search Committee for Science Education
2000 - 2002	Department Representative, Academic Affairs Committee
2001	Research Mentor, McNair Scholar Program, KSU
2000, 2001	Volunteer, Academic Majors Fair
2000 - 2001	Chair, Search Committee for Mathematics Educator
2000 - 2001	College of Education Representative, University General Education (UGE) University Committee
2000 - 2001	Member, Outstanding Undergraduate Student Award Committee
2000 - 2001	Member, Outstanding Undergraduate Teacher Award Committee
2000-2001	Research Sponsor, Developing Scholars Program

Honors and Awards

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. Sodiemye 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 Organizations

American Association of Colleges for Teacher Education (AACTE)
American Educational Research Association (AERA)
Association of Mathematics Teacher Educators (AMTE)
Association for Supervision and Curriculum Development (ASCD)
Kansas Association of Teachers of Mathematics (KATM)
National Council of Supervisors of Mathematics (NCSM)
National Council of Teachers of Mathematics (NCTM)
Phi Delta Kappa (PDK)
School Science and Mathematics Association (SSMA)
Special Interest Group/Research in Mathematics Education (SIG/RME)

Invited Presentations

International

- 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.
- 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.
- Fennell, S., & Bay-Williams, J. M. (2001, November). "Algebra Curriculum." Panel Discussion on *MathWeb 2001* (Second annual mathematics education virtual conference).
- Muri, M., Bay, J. M., & Briars, D. (2000, October). "Those Dreaded Tests Kids Have to Take." Panel Discussion on *MathWeb 2000* (First mathematics education virtual conference).
- Bay, J. M. (1997, August). "Aligning K-12 curriculum" and "Teaching ideas in grades 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.
- Bay, J. M. (1995, October). "Using manipulatives to teach elementary mathematics." A 3-day workshop including ideas and activities covering a broad range of elementary topics. Escola Americano de Campinas, Brazil.
- Bay, J. M. (1995, January). "Teaching in Grades K -8." A five-day K-8 institute involving afternoon workshops and team teaching or demonstration lessons during the school day. Escuela Americano de Quito, Ecuador.
- Bay, J. M. (1994, November; 1994, January). "Strategies for teaching fractions and geometry in the elementary grades." A weeklong workshop focusing on manipulatives for teaching topics requested by teachers. This included working with teachers in their classrooms. Escola Americano de Rio de Janiero, Brazil.
- Bay, J. M. (1994, August). "Teaching Ideas for the Primary Grades." A two-day workshop focused on problem solving and manipulatives with young children. Escola Graduada de Sao Paulo, Brazil.

Bay, J. M. (1993, March). "Integrating mathematics and other topics," "Cooperative Learning in Mathematics," "Using manipulatives to teach Math," and "Problem Solving in Mathematics." Presentations (4) at the Association of American Schools in South America Brazil National Conference, Rio de Janeiro, Brazil.

National

Bay-Williams, J. M. (2007, October). "Supporting ELLs in mathematics class: What we know and what we can do." [**Featured Speaker**] National Council of Teachers of Mathematics (NCTM) Regional Meeting, Kansas City, MO.

Lappan, G., Bay-Williams, J., Confrey, J., Fennell, S., 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.

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.

Bay-Williams, J. M. (2006, October). "Integrating strategies for English Language Learners and standards-based mathematics." Colorado Council of Teachers of Mathematics (CCTM)[invited pre-session], Denver, CO.

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.

Bay-Williams, J., M. (2006, October). "Strategies for Supporting English Language Learners in Mathematics." Our Kids Summer Institute, Cedar Rapids, IA.

Arbaugh, F., and Bay-Williams, J. M., (2005, February). Classroom assessment and problem solving. Presentation at the annual pre-service teacher ACCLAIM conference, Lexington, KY.

Bay-Williams, J. M. (2004, September). Using questioning to engage students in problem solving. Presentation at the annual ACCLAIM conference, Huntington, WV.

Bay-Williams, J. M., & Hoover, M. (2004, May). Preparing teachers for curriculum implementation. Presentation at the annual Middle School Mathematics

Curriculum Showcase, Nashville, TN.

- Arbaugh, F., & Bay-Williams, J.M. (2003, January). "Middle School Teachers Mathematics Pedagogy Preparation." Presentation at the Association Mathematics Teacher Educators Pre-Conference: Middle School Mathematics Teacher Preparation, Atlanta, GA.
- Bay-Williams, J.M., & Arbaugh, F. (2003, May). "Exploring the NSF-funded middle school mathematics curricula: A look at algebra." Presentation at the Annual Meeting of the Wisconsin Council of Teachers of Mathematics, Greenlake, WI.
- Bay-Williams, J. M. ,& Martinie, S. L. (2003, April). "Developing rational number sense through children's literature." Presentation at the Annual Meeting of the National Council of Teachers of Mathematics (NCTM), San Antonio, TX.
- Bay-Williams, J. M. & Griffith, L. (2003, March). "*Navigating through algebra.*" Two-day institute for the National Council of Teachers of Mathematics NCTM Academies for Professional Development, San Diego, CA.
- 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. Presentation at the Annual Meeting of the Association Mathematics Teacher Educators (AMTE), Atlanta, GA.
- Bay-Williams, J.M., & Snyder, H. (2002, August). "*Navigating through algebra.*" Two-day institute for the National Council of Teachers of Mathematics NCTM Academies for Professional Development, Virginia Beach, VA.
- Bay-Williams, J.M., & Buck, M. (2002, July). "*Navigating through algebra.*" Two-day institute for the National Council of Teachers of Mathematics NCTM Academies for Professional Development, Indianapolis, IN.
- Arbaugh, F., & Bay-Williams, J. M. (2002, July). "Fostering successful implementation: Helpful strategies for supporting teachers and building community support." Presentation at the annual meeting for the Indiana Council of Teachers of Mathematics. Indianapolis, IN.
- Bay-Williams, J. M., & Martinie, S. L. (2002, April). "Developing proportional reasoning through children's literature." Presentation at the National Council of Teachers of Mathematics Annual Meeting, Las Vegas, NV.
- 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.

Arbaugh, F., & Bay-Williams, J. M. (2002, April). "Fostering successful implementation: Helpful strategies for supporting teachers and building community support." Presentation at the Annual Show-Me Conference, Atlanta, GA.

Bay-Williams, J. M., & Arbaugh, F. (2002, January). "NSF-sponsored middle school mathematics curriculum." Presentation to state leadership coalition. Providence, RI.

Arbaugh, F., & Bay-Williams, J. M. (2002, January). "Designing mathematics methods courses using *Principles & Standards* as a primary text." Presentation at the Association of Mathematics Teacher Educators (AMTE) Annual Meeting. San Antonio, TX.

Bay-Williams, J. M. (2001, August). "From principles to practice: NCTM mini academy for middle school," Invited Presentation at the National Council of Teachers of Mathematics Regional Meeting, Laramie, WY.

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.

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 Academies for Professional Development, Atlanta, GA.

Bay, J. M. (2001, May). "Preparing teachers, parents, and community for standards-based mathematics curriculum." Presentation at the Annual Show-Me Conference, St. Louis, MO.

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 Academies for Professional Development, Orlando, FL.

Bay, J. M., & Martinie, S. (2001, April). "What is a function to a first grader?: Exploring algebra in elementary school." Presentation at the National Council of Teachers of Mathematics Annual Meeting, Orlando, FL.

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 Academies for Professional Development, San Antonio, TX.

- 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 Academies for Professional Development, Baton Rouge, LA.
- Bay, J.M. (2000, October). "Harry Potter's got math? Mathematical investigations from favorite children's literature." Presentation at the National Council of Teachers of Mathematics regional meeting, Omaha, NE.
- Bay, J.M. (2000, October). "Standards-based middle school mathematics curricula." Presentation at the CESAME Science and Mathematics Curriculum Showcase, Boxborough, MA.
- 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.
- Bay, J. M. (August and November, 2000). "Improving middle school mathematics: Ideas from standards-based curricula." Workshop presented for K - 12 teachers at Pleasant Plains School District, Pleasant Plains, IL.
- Bay, J. M. (2000, May). "Integrating NSF middle school curricula into a K-8 methods course." Poster presentation at the annual Show-Me Conference, Branson, MO.
- Bay, J. M., & Glasgow, R. (2000, April). "Assessment in NSF-sponsored middle school mathematics curricula." Special Presentation to the Presidential Awardees at the National Council of Teachers of Mathematics annual meeting, Chicago, IL.
- Bay, J.M. (2000, March). "From introduction through implementation with standards-based middle grades mathematics curricula: What the Show-Me Project can offer." Presentation at the CESAME Curriculum Implementation Forum, Nashua, N.H.
- Bay, J. M., & Wasman, D. G. (1999, November). "Activities from standards-based middle school mathematics curricula representing PSSM content strands." Presentation at the National Council of Teachers of Mathematics regional meeting, Topeka, KS.
- Bay, J. M. (1999, October). "Teaching fraction operations conceptually"; "Algebra in NSF-sponsored middle school mathematics curricula." Presentations at the Quincy Conference, Quincy, IL.
- Wasman, D. G., & Bay, J. M. (1999, September). "Algebra is FUNCTIONing in NSF-

funded middle school curricula!" Presentation at the joint meeting of the North Carolina Council of Teachers of Mathematics and the School Science and Mathematics Association, Greensboro, NC.

Bay, J.M., & Simms, K. (1999, August). "Activities for teaching mathematics in elementary school and introduction to *Everyday Mathematics*." Oskaloosa, KS.

Bay, J. M. (1999, June). "Mathematics in NSF-sponsored middle school mathematics curriculum." Presentation at the Mathematics/Science Partnership for Implementation of National Standards Summer Institute, Hattiesburg, MS.

Reys, B. J., Bay, J. M., & Wasman, D. G. (1999, April). "Standards-based NSF middle grade mathematics curricula." Special Presentation to the Presidential Awardees at the National Council of Teachers of Mathematics annual meeting, San Francisco, CA.

Bay, J. M., & Wasman, D. G. (1999, February). "Algebra activities in middle school: Ideas from NSF middle school curriculum projects." Presentation at the National Council of Teachers of Mathematics regional meeting, Des Moines, IA.

Bay, J. M, Beem, J. K., & Papick, I. (1998, December). "Middle school student reactions to standards-based mathematics." Presentation at the Missouri Council of Teacher of Mathematics (MCTM) State Meeting, Columbia, MO.

Bay, J. M. (1998, August). "Using manipulatives in mathematics, Grades K-8." All-day workshop at Edgar Springs School District, MO.

Bay, J. M., & Llufrío, J. (1998, April) "Get roped into mathematics-Using rope to teach important concepts." Presentation at the National Council of Teachers of Mathematics (NCTM) Annual Meeting, Washington, D.C.

Bay, J. M. (1998, January). "You made it by a fraction! Using (lots of) manipulatives to teach equivalence and operations with fractions." Presentation at the National Council of Teachers of Mathematics (NCTM) Regional Meeting, St. Louis, MO.

Reys, R. E., & Bay, J. M. (1998, April). "Ideas for Encouraging and Developing Estimation." Presentation at the National Council of Teachers of Mathematics (NCTM) Annual Meeting, San Diego, CA.

State

Bay-Williams, J. M. (2006, February). Integrating standards-based mathematics and

- sheltered instruction. Presentation at the annual meeting for the Kansas Staff Development Council, Wichita, KS.
- 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.
- Bay-Williams, J. M. (2006, January). Effective teaching in K-12 mathematics. Presentation to the faculty of Dodge City Public Schools, Dodge City, KS.
- 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.
- 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.
- 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.
- Bay-Williams, J. M. (2005, April). Lesson Study: Using Cooperative Learning Strategies. One-day observation and discussion with the mathematics faculty of Central Middle School, Kansas City, KS.
- Bay-Williams, J. M. (2005, March). Integrating Sheltered Instruction Observation Protocol (SIOP) with standards-based mathematics instruction in secondary school. Presentation at for the secondary mathematics faculty, Dodge City School District.
- Bay-Williams, J. M. (2005). Developing Number Sense in Middle School. One-day workshop for Wamego Middle School, Wamego, KS.
- 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.
- 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.
- Bay-Williams, J. M., & Shroyer, M. G. (2004, April). Lesson Study: Connected

- Mathematics at Central Middle School. One-day observation and discussion with math teachers of Central Middle School, Kansas City, KS.
- Bay-Williams, J.M. (2004, October). Children's Literature Across the Middle School Curriculum. Presentation at the annual Kansas Association of Teachers of Mathematics (KATM) state meeting, Topeka, KS.
- Bay-Williams, J.M. (2004, October). College Network – Kansas Teacher Educator Reception. Presentation at the annual Kansas Association of Teachers of Mathematics (KATM) state meeting, Topeka, KS.
- Bay-Williams, J.M. (2004, October). "The Young and the Rest of Us." Presentation at the annual Kansas Association of Teachers of Mathematics (KATM) state meeting, Topeka, KS.
- Bay-Williams, J.M. (2004, October). Newcomers Session. Presentation at the annual Kansas Association of Teachers of Mathematics (KATM) state meeting, Topeka, KS.
- Allen, D. S., Bay-Williams, J.M., Hancock, M. (2003, October). Geometric thinking: Van Heile applications in grades K-5. Presentation at the annual Kansas Association of Teachers of Mathematics (KATM) state meeting, Hays, KS.
- Bay-Williams, J.M. (2003, October). Newcomers Session. Presentation at the annual Kansas Association of Teachers of Mathematics (KATM) state meeting, Hays, KS.
- 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.
- 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.
- Bay-Williams, J.M. (2002, October). "Using children's literature to develop problem solving in middle school mathematics." Presentation at the annual Kansas Association of Teachers of Mathematics state meeting, Pittsburg, KS.
- 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.
- Bay-Williams, J. M. (2002, August). "Implementing the Connected Mathematics Project"

- Presentation for the middle school teachers of Council Grove School District, Council Grove, KS.
- Bay-Williams, J. M. (2002, May). "Implementing the Connected Mathematics Project " Presentation for the middle school teachers of Council Grove School District, Council Grove, KS.
- 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.
- Bay-Williams, J. M. (2002, June). "*Mathematics in context: An overview.*" Presentation at the Greenbush Summer Institute, Lawrence, KS.
- Bay-Williams, J. M. (2002, June). " Teaching Algebra with *Mathematics in context.*" Presentation at the Greenbush Summer Institute, Lawrence, KS.
- 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.
- Bay-Williams, J. M. (2002, January). "Using literature to teach mathematics in K-8". Presentation to teachers in the ESSDACK counties. Hutchinson, KS.
- 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.
- Bay-Williams, J. M. (2001, November). "What National & International Research Tells Us About K-12 Mathematics Teaching and Learning. Presentation at the Annual Rural Education and Small Schools Conference, Manhattan, KS.
- Bay-Williams (2001, October). "*Everyday Mathematics, Investigations in Number, Data, and Space* and *Math Trailblazers: Promising options for standards-based elementary school mathematics curricula.*" Showcase presented to Mays, Kansas elementary teachers.
- Bay-Williams, J. M. (2001, October). "Implementing *Mathematics in Context: What parents should know.*" Presentation to the parents of schools in the ESSDACK regional consortium.
- Bay-Williams, J. M. (2001, October). "What do TIMSS, TIMSS-R, and NAEP 2000 tell us about K-12 Mathematics?" Presentation at the annual Kansas Association of

- Teachers of Mathematics state meeting, Wichita, KS.
- Bay-Williams, J. M. (2001, October). "Great ideas for developing algebraic thinking in middle school students." Presentation at the annual Kansas Association of Teachers of Mathematics state meeting, Wichita, KS.
- Bay-Williams, J. M. (2001, October). "Exploring middle school standards-based mathematics curricula: What, why, how?" Presentation at the annual Kansas Association of Teachers of Mathematics state meeting, Wichita, KS.
- 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." Presentation at the annual Kansas Association of Teachers of Mathematics state meeting, Wichita, KS.
- 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.
- Bay-Williams, J. M., & Hancock, M. (2001, September). "Broad-based collaboration and K-16 simultaneous renewal." Presentation at the annual Kansas PDS Coalition Conference.
- 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.
- 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.
- 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.
- 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.
- Bay, J.M., Bennet, 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.

Bay, J. M. (2000, October). "In search of patterns: Algebra for elementary students. " Presentation at the annual Kansas Association of Teachers of Mathematics state meeting, Olathe, KS.

Local

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.

Bay-Williams, J. M., (2007, July). Developing algebraic thinking. Presentation to the 8th grade mathematics faculty, Jefferson County Public Schools, Louisville, KY.

Bay-Williams, J. M., (2007, June). Developing algebraic thinking. Presentation to the 8th grade mathematics faculty, Jefferson County Public Schools, Louisville, KY.

Bay-Williams, J. M., (2006, October). Implementing *Investigations in Number, Data, and Space*. Presentation to the leadership team, Morningside Elementary School, Elizabethtown, KY.

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.

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.

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.

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.

Bay-Williams, J. M. (2005, March). Using a standards-based approach to instruction. Presentation for the faculty of Northview Elementary School, Manhattan, KS.

Bay-Williams, J. M., (2005, February). Number Sense in Middle School. One-day Workshop for the mathematics faculty of Wamego Middle School, Wamego, KS.

- Bay-Williams, J. M. (2005, February). Teaching Geometry in Middle School. Presentation at the Geometry Winter Institute, Manhattan, KS.
- Bay-Williams, J. M. (2005, February). Teaching Measurement in Middle School. Presentation at the Geometry Winter Institute, Manhattan, KS.
- 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.
- Bay-Williams, J. M. (2004, November). Using a problem-based approach to instruction. Presentation for the faculty of Lee Elementary School, Manhattan, KS.
- Evans, D. & Bay-Williams, J. M. (2004, November). Teaching overseas. Teaching Overseas Workshop. Presentation offered through KSU Office of Career & Employment Services, Manhattan, KS.
- 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.
- Bay-Williams, J. M. (2004, February). Teaching overseas. Presentation to the Delta Kappa Gamma Education Honor Society, Manhattan, KS.
- Bay-Williams, J. M. (2004, February). Research on standards-based elementary mathematics curriculum. Presentation to all Manhattan/Ogden School District elementary teachers, Manhattan, KS.
- Bay-Williams, J. M. (2004, February). Teaching mathematics across the curriculum. Presentation for the faculty of Eisenhower Middle School, Manhattan, KS.
- Bay-Williams, J. M., & Allen, D. S. (2004, February). Research on elementary curriculum. Presentation to all Manhattan/Ogden School District elementary teachers, Manhattan, KS.
- 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.
- Bay-Williams, J. M. (2003, June). "Teaching Algebraic Thinking in Grades 6 - 12." Presentation at the KSU Partnership Project summer institute.
- Bay-Williams, J. M. (2003, June). "Standards-based instructional strategies in K - 12." Presentation at the KSU Partnership Project summer institute.

- 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.
- 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.
- Bay-Williams, J. M. (2003, February). "Developing conceptual understanding in mathematics." Presentation for the Faculty at Amanda Arnold Elementary.
- Bay-Williams, J. M. (2002, November). Tips for effective tutoring in mathematics." Presentation to the KSU America*Reads America*Counts organization.
- Evans, D., Bay-Williams, J. M., Mittendorf, J., & Miller, E. (2002, October). "Teaching Overseas Workshop." Presentation offered through KSU Office of Career & Employment Services, Manhattan, KS.
- Bay-Williams, J. M. (2002, October). "Developing conceptual understanding in mathematics." Presentation for the Faculty at Theodore Roosevelt Elementary.
- Bay-Williams, J. M. (2002, June). "Developing conceptual understanding in mathematics." Presentation at the KSU Partnership Project summer institute.
- Bay-Williams, J. M. (2002, May). "Lesson Study." Model teaching and discussion with the faculty of Ogden Elementary School, Ogden, KS.
- Evans, D., Bay-Williams, J. M., Romaniszyn, M., & Miller, E. (2002, April). "Teaching Overseas Workshop." Presentation offered through KSU Office of Career & Employment Services, Manhattan, KS.
- Bay-Williams, J. M. (2001, September). "Developing conceptual and procedural understanding in elementary school mathematics." Presentation to the faculty at Bluemont Elementary School.
- Bay-Williams, J. M. (2001, September). Golden rules for tutoring in mathematics." Presentation to the KSU America*Reads America*Counts organization.
- Bay, J. M., Hilpman, B., & Whiting, T. (2001, April). "Teaching Overseas Workshop." Presentation offered through KSU Office of Career & Employment Services, Manhattan, KS.

- Bay, J. M. (2001, April). Tips for Tutoring in Mathematics. Presentation to the KSU America*Reads America*Counts organization, Manhattan, KS.
- Bay, J. M. (2000, October). "Implementing Standards-based Mathematics Curricula: Why, What, How?" Parent Workshop for Manhattan/Ogden School District.
- Bay, J. M. (2000, September). "Meaningful Mathematics Across the Curriculum." Presentation for faculty at Fort Riley Middle School, Junction City, KS.
- Bay, J. M. (2000, September). "Problem Solving and *Investigations in Number, Data, and Space*." Workshop presented for Manhattan Public Schools elementary teachers, Manhattan, KS.