

Sylvia R. Taube
Assistant Professor of Curriculum & Instruction
Curriculum & Instruction
College of Education

Degrees Earned

Ph. D. Curriculum and Instruction, State University of New York-Albany, 1992
M.A.T. Secondary Mathematics, University of the Philippines, 1976
B.S. Secondary Mathematics, Mindanao State University, 1971

Professional Licensure and Certifications

Secondary Mathematics (Gr. 7-12)

Peer-Review Publications and Artistic Performances/Exhibitions

Articles

Taube, S. & Ortiz, R. (2007). Teach and re-teach: Field experiences for methods teacher candidates. *Michigan Association of Teacher Educators Journal*. 4 (1), 18 – 23.

Polnick, B., Taube, S., & Reed, D. (2006). Leadership influences on professional development: Overcoming barriers to implementation. *Women as Education Executives*, edited by Julia Ballenger.

Taube, S., Polnick, B., & Lane, J. (2006). Meeting the needs of a Latino language learner through teacher research. *The Qualitative Report*, Vol. 11 (4). <http://www.nova.edu/ssss/QR/QR11-4/index.html>

Polnick, B., Taube, S., & Reed, D. (2006). Leadership influences on professional development: Overcoming barriers to implementation. *Women as Education Executives*, edited by Julia Ballenger.

Taube, S., Polnick, B., & Jasper, W. (2005). Guiding teachers in conducting action research, *Academic Exchange*, pp. 72-76.

Taube, S. & Pinchback, C (2004). Learning ratio and proportion through tangrams. *Texas Mathematics Teacher*, 51(1)

Jasper, W. & Taube, S. (2004). A comparison of elementary teachers' problem-solving skills before and after a focused professional development: An action research. *Teacher Education and Practice*, 17(3).

Taube, S., Polnick, B., & Jasper, W. (2004). Designing and using alternative assessments to measure problem solving skills of elementary students. *Journal of Border Educational Research*, 3(2).

Taube, S.(2001). Building staircases and stacking up Soup cans: Which two variables are related?
Texas Mathematics Teacher, 49 (1).

Rubink, W. & Taube, S. (1999). Mathematical connections from biology: Killer bees come to life in the classroom. *Mathematics Teaching in the Middle School*, 4(6).

Books

Note: The following teaching guides were peer refereed, approved and supported by funds from the Texas Education Agency.

Jasper, W., Swarthout, M., Taube, S., & Long C. (2006). Teachers guide to teaching mathematics for English language learners: Middle school geometry and measurement.

Jasper, W., Huber, J., Taube, S., Taylor, F., Klespis, M., Swarthout, M., Long, C., Avalos, E., Gerardo, L., and Bohan, S. (2005). Teachers guide to teaching mathematics to English language learners. Access from www.tsumell.org (official website of the TSUS Mathematics for English Language Learners (MELL)).

Proceedings

Taube, S. & Jasper, W. (Sept. 2007). A program that promotes responsive mathematics teaching for English language learners in Gr. 6-12 Classrooms. International Mathematics Education Conference, Charlotte, NC.

Taube, S. Jasper, W. & Long, C. (April 2006). Helping teachers empower English language learners in mathematics classrooms (Gr. 6-11), *Research on Women and Education (AERA SIG)*, Edited by Charlotte Harris.

Polnick, B., Reed, D., & Taube, S. (2006). Female principals and gender equity: Dreams deferred. *Research on Women and Education Conference Proceedings*. Access from RWE website (<http://rwesig.net>).

Research Monographs and Technical Reports

2000-2007 10 Program Evaluation Reports for Teacher Quality grants directed by Drs. Max Coleman (SHSU) and Dr. Mohammad Bhatti (UT-Pan American)

Funded External Grants

7 Teacher Quality Grants (1996-2005); Total Amount \$520,000
Role: Project manager, director, and instructor

Peer-Review Presentations

International Level

Taube, S. & Jasper, W. (Sept 7-12, 2007). A Program that promotes responsive mathematics teaching for English language learners in grades 6-12 classrooms. Mathematics Education in a Global Community, Charlotte, NC.

Taube, S., Jasper, W., & Long, C. (July 7-9, 2005) "Strategies that address the specific learning needs of English language learners in mathematics," International Mathematics Education Conference, San Antonio, TX

National Level

Jasper, W. & Taube, S. (March 2007). Strategies and resources for improving the mathematics performance of English language learners. National Council of Supervisors of Mathematics, Atlanta, GA.

Polnick, B. & Taube, S. (March 2007). Implementing a questioning model for teaching problem solving using multiple representations. National Council of Teachers of Mathematics, Atlanta, GA.

Gerardo, L. & Taube, S. (March 2007). Awaken the genius: They hold the future of mathematics. National Council of Teachers of Mathematics, Atlanta, GA.

Taube, S & Ortiz, R. (Oct. 2007). Addressing student diversity and differentiated instruction: A risk-taking task for female teacher candidates. Research on Women and Education, San Antonio, TX.

Gerardo, L., & Taube, S. (April 2006). The answer is only as good as the question: Motivating strategies for ELLs taking algebra 1. National Council of Teachers of Mathematics, St. Louis, MO.

Polnick B., Taube, S., Butterfrans, J., Callier, A., & Thornton, S. (April 2006). What you ask..is what you get!! National Council of Teachers of Mathematics, St. Louis, MO.

Polnick B., Reed, D., & Taube, S. (Oct 2006). Female principals and gender equity: Dreams Deferred Research on Women and Education, Detroit, MI.

Jasper, W. & Taube, S. (Jan. 2006). Meeting the needs of English language learners in mathematics classrooms. Association of Mathematics Teacher Educators. Tampa, Florida.

Taube, S., Polnick, B., & Jasper, W. (Jan 2005). What were they thinking? Helping teachers to improve teaching and learning through action research. Association of Mathematics Teacher Educators, Dallas, TX

Polnick, B. & Taube, S. (April 2005). What were they thinking? National Council of Teachers of Mathematics annual meeting, Anaheim, CA.

- Gerardo, L. & Taube, S. (April 2005). Mexican Americans can succeed in algebra 1. National Council of Teachers of Mathematics, Anaheim, CA.
- Taube, S., Long, C., & Jasper, W. (Oct. 2005). Helping teachers empower English language learners. Research on Women and Education, a Special Interest Group of the American Educational Research Association. Dayton, OH.
- Taube, S. & Polnick, B. (Feb 2004). Mentoring elementary teachers in designing and using alternative assessments for measuring students' problem solving skills. Association of Teacher Educators, Dallas, TX
- Polnick, B., Taube, S., & Reed, D. (Oct. 2004). Developing elementary teachers' abilities to teach and assess problem solving. Research on Women and Education, a Special Interest Group of the American Educational Research Association, Cleveland, OH
- Taube, S., Powers, J., Lambating, L., & Pinchback, C. (Jan 30-Feb 1, 2003). Bridging theory and practice: Implementing partnerships models for field experience: A Symposium. The Association of Mathematics Teacher Educators, Atlanta, GA.
- Taube, S. (April 2003). Supporting pre-service teachers' use of online resources provided by NCTM. National Council of Teachers of Mathematics, San Antonio, TX.
- Taube, S. (Jan 2002). A week without worksheets: Providing meaningful field experiences for pre-service elementary teachers. Association of Mathematics Teacher Educators, San Antonio, TX
- Taube, S. & Pinchback, C. (March 7-9, 2002). Pre-service teachers' use of children's literature to teach mathematics. Research Council on Mathematics Learning, Memphis, TN
- Taube, S. & Gerardo, L. (April 2002). Making more sense of quadratic functions through geometric transformations and constructions. National Council of Teachers of Mathematics, Las Vegas, NV
- Taube, S. & Arp, K. (March 2001). The effects of a full-year math intervention program on at-risk sixth-grade students. Research Council on Mathematics Learning, Las Vegas, NV
- Taube, S., Huber, J., & Arp, K. (April 2001). Math power for kids: Problem solving through data collection and analysis. National Council of Teachers of Mathematics, Orlando, FL
- Arp, K., & Taube, S. (April 2001). Math mania: After-school program for at-risk students. National Council of Teachers of Mathematics, Orlando, FL
- Taube, S. & Gerardo, L. (April 2001). Solidifying the understanding of functions through Geometry. National Council of Teachers of Mathematics, Orlando, FL
- Taube, S. & Arp, K. (March 2000). Addressing the needs of students below grade level but do not qualify for special education. Research Council on Mathematics Learning, Las Vegas, NV
- Taube, S. (April 2000). Building staircases and stacking up soup cans: Which two variables are related? National Council of Teachers of Mathematics, Chicago, IL

Taube, S. & Gerardo, L. (April 1999). Parents, students, and teachers: A seamless journey toward success in mathematics. National Council of Teachers of Mathematics, San Francisco, CA.

Taube, S. & Gerardo, L. (April 1998). Writing in geometry: Revisiting an ancient Chinese puzzle. National Council of Teachers of Mathematics, Washington, DC.

Taube, S. & Majors, J. (April 1998). Embedding multiple intelligences in performance assessments of students. National Council of Teachers of Mathematics, Washington, DC.

Taube, S. (March 1997). Unit partitioning as a mechanism for constructing basic fraction knowledge: Testing a hypothesis. American Educational Research Association, Chicago, IL.

Rubink, W. & Taube, S. (Nov 1997). A model for studying honey bees: The integration of biological and mathematical concepts. School Science and Mathematics Association, Milwaukee, WI.

Taube, S. (Oct 1996). Interpreting fraction meanings: Hearing the voices of language minority fourth-grade students. North American Chapter of the International Group for the Psychology of Mathematics Education, Tallahassee, FL

Taube, S. (Oct 1996). Research on interdisciplinary teaching and learning: A panel discussion group. North American Chapter of the International Group for the Psychology of Mathematics Education, Tallahassee, FL.

Taube, S. (Oct 1995). Reconstructing the whole: A gauge of fraction understanding. North American Chapter of the International Group for the Psychology of Mathematics Education, Columbus, OH.

Taube, S. (April 1994). Add geometric flavor to fractions through partitioning activities. National Council of Teachers of Mathematics, Indianapolis, IN.

Taube, S. (Nov 1994). A symposium on rational numbers. North American chapter of the International Group of the Psychology of Mathematics Education, Baton Rouge, LA.

Taube, S. & Mendez, B. (April 1993). Team teaching in Math and English: Collaborating toward success. College Reading and Learning Association, Kansas City.

Regional Level

Jasper, W. & Taube, S. (Nov 2007). Helping English language learners develop mathematics vocabulary. National Council of Teachers of Mathematics, Houston TX.

Jasper, W. & Taube, S. (Feb 2007). Using sheltered instruction techniques to increase mathematics understanding of English language learners. Annual meeting of Southwest Educational Research Association (SERA), San Antonio, TX.

Taube, S. & Jasper, W. (Feb 2006). Symposium: Research focusing on mathematics for English Language Learners. Southwest Educational Research Association, Austin, TX

Taube, S. Jasper, W. & Polnick, B. (Feb 2005). Developing highly qualified middle school math teachers. Southwest Educational Research Association, New Orleans, LA.

Taube, S. & Polnick, B. (Feb 2004.). FLAME: Facilitating leadership among mathematics educators. Southwest Educational Research Association Annual Meeting, Dallas, TX

Taube, S. & Jasper, W. (Feb 2003). Developing elementary teachers' problem solving skills. Southwest Educational Research Association, San Antonio, TX.

Taube, S. (Oct 2002). Performance assessment tasks for prospective teachers: Measuring up to the national standards on teaching with technology. Phi Delta Kappa District III, Tulsa, OK.

Taube, S. (Oct 2001). Technology-Infused lessons: Teaching elementary mathematics without traditional worksheet, Southern Regional Association of the Teacher Educators, Corpus Christi, TX.

State level (due to limited space 25+ presentations are not included here during 1996-2006)

Taube, S., Ramirez, C., & Torres, R. (July 2007). Student-made "study guides" to help ELLs learn geometric terms (Gr. 9-11). Mathematics for English Language Learners, San Marcos, TX

Taube, S., Polnick, B., & Teague, B. (July 2007). ¿Por qué contestaste así? Questioning and multiple representations to engage ELLs in mathematical thinking. Mathematics for English Language Learners, San Marcos, TX

Taube, S. Ramirez, C., & Torres, R. (June 2007). Easy classroom activities to help English language students (Gr. 9-12) learn and value math. Conference for the Advancement of Mathematics Teaching, San Antonio, TX.

Jasper, W. & Taube, S. (June 2007). Teaching mathematics and vocabulary together. Conference for the Advancement of Mathematics Teaching, San Antonio, TX.

Local Level

Jasper, W & Taube, S. (Nov 2007). Creating mathematics lessons with a strong English language support. Rio Grande Valley Council of Teachers of Mathematics, UT-Pan American, Edinburg, TX

Work or Professional Experiences

1998-Present-- Assistant Professor (Tenured), Curriculum & Instruction Department, Sam Houston State University

1995-1998 - Assistant Professor (tenure track), Curriculum & Instruction Department, UT-Pan American

1989-1994 – Full time Lecturer, Mathematics and Statistics Department, UT-Pan American

1972-1981 – Secondary mathematics teacher, Western Mindanao State University (high school Lab)

Honors and Awards

Feb. 2006 Nominee for the Excellence in Research Award, SHSU

Sept. 2001 Granted “Tenured”, Asst. Professor by SHSU

SP 1998 Recipient: University of Texas-Pan American Scholars’ Fund
(Quarter released time to pursue research and publication)

May 1992 Presidential Distinguished Doctoral Dissertation (SUNY-Albany)

1991-1992 Recipient: University of Texas-Pan American Leadership Program (financial assistance to complete research for doctoral dissertation)

1981-1985 Fulbright-Hays Scholar to complete a terminal degree in the U.S.

1976-1977 Full Scholarship to complete a Masters Degree in Mathematics Teaching

Other Competencies

Curriculum Writing, for project funded by the Texas Education Agency (2005-present)
The project is called the Mathematics for English Language Learners (MELL) (www.tsusmell.org).

Trainer of Mathematics Teachers of English Language Learners (2006-present)

Program Evaluation, external program evaluator for Teacher Quality Grants in TX (1990-present).

Supervisor of student teachers, UT-Pan American (1995-98); SHSU (2005-2006)

Supervise field experience of methods teacher candidates at SHSU (2000-present)