

# **SANDRA BONORDEN NITE**

Texas A&M University

College Station, Texas

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## **EDUCATION**

- Ph.D. Mathematics Education, Texas A&M University, 2012  
w/ Advanced Research Methods Certification
- M.M. Music Education, Texas State University, 1997
- M.S. Mathematics, Texas State University, 1977  
Thesis: Solutions of Partial Differential Equations by the Use of Operators
- B.S. Mathematics, Texas State University, 1975

## **PROFESSIONAL LICENSES**

- TAMU* Professional Online Teaching Certification, 2012
- Texas* Educator Certificate Master Mathematics Teacher, 2007- 2017
- Texas* Lifetime Certificate Secondary Music, English, English Language Arts, 1979 – Present
- Texas* Lifetime Certificate Secondary Mathematics, Computer Science, Biology, Chemistry, Composite Science, 1977 – Present
- USA* Lifetime Level III OAKE-Endorsed Kodály Certification, 1996 - Present

## **EDUCATIONAL EMPLOYMENT**

### **University**

- 2013 – Present Research Scientist, Aggie STEM, Department of Teaching, Learning, and Culture, College of Education and Human Development, Texas A&M University, College Station, TX
- 2013 Visiting Assistant Professor of STEM Education, Department of Teaching, Learning, and Culture, College of Education and Human Development, Texas A&M University, College Station, TX
- 2008 – Present Associate Director, Center for Technology-Mediated Learning in Mathematics, Department of Mathematics, College of Science, Texas A&M University, College Station, TX
- 2008 – Present Director of AP Institutes in Mathematics, Department of Mathematics, College of Science, Texas A&M University, College Station, TX
- 2005 – 2012 Senior Lecturer, Department of Mathematics, College of Science, Texas A&M University, College Station, TX
- 2012 Course Coordinator and Week-in-Review Instructor for Math 166, Department of Mathematics, College of Science, Texas A&M University, College Station, TX
- 2009-2010 Course Coordinator and Week-in-Review Instructor for Math 131, Department of Mathematics, College of Science, Texas A&M University, College Station, TX
- 2008-2011 Mathematics Instructional Coaches, TEA Registered Service Provider, Department of Mathematics, College of Science, Texas A&M University, College Station, TX
- 1975-1977 Assistant Instructor, Department of Mathematics, College of Science, Texas State University, San Marcos, TX

### **Community College**

- 1996-2005 Adjunct Mathematics/Music Instructor, Department of Mathematics/Music, Division of Mathematics and Science/Division of Fine Arts, Brazosport College, Lake Jackson, TX

- 1990-1996 Mathematics Instructor, Division of Mathematics and Science, Brazosport College, Lake Jackson, TX
- 1981-1990 Adjunct Mathematics Instructor, Brazosport College, Lake Jackson, TX
- Public Schools**
- 1998-2005 Mathematics Curriculum Coordinator & Math/Science Teacher, Sweeny High School, Sweeny Independent School District, Sweeny, TX
- 1996-1998 Mathematics/Science Teacher, Sweeny High School, Sweeny Independent School District, Sweeny, TX
- 1978-1983 Director, Computer Science Program, Sweeny High School, Sweeny Independent School District, Sweeny, TX
- 1977-1983 Mathematics/Science/Computer Science Teacher, Sweeny High School, Sweeny, TX

## **RESEARCH INTERESTS**

Mathematics Education  
 Music Education  
 Mentoring/Coaching

## **PUBLICATIONS**

- Nite, S. B., Capraro, M. M., Bicer, A., & Capraro, R. M. (2017, in press). Explicating the characteristics of STEM teaching and learning: A meta-synthesis. *Journal of STEM Teacher Education*, xx, xxx-xxx.
- Barroso, L. R., Nite, S. B., Morgan, J. R., Bicer, A., Capraro, R. M., & Capraro, M. M. (2016). Using the engineering design process as the structure for project-based learning: An informal STEM activity on bridge-building. *Proceedings of 2016 IEEE Integrated STEM Education Conference (ISEC)*, Princeton, NJ, 249-256. doi: 10.1109/ISECon.2016.7457542
- Barroso, L. R., Bicer, A., Capraro, M. M., Capraro, R. M., Foran, A., Grant, M., Lincoln, Y. S., Nite, S. B., Oner, A. T., & Rice, D. (ABC order) (2016). Run! Spot. Run! - Vocabulary development and the evolution of STEM disciplinary language for secondary teachers. Submitted to *Zentralblatt für Didaktik der Mathematik (ZDM)* on January 9, 2016.
- Bicer, A., Nite, S. B., Capraro, R. M., Barroso, L. R., Capraro, M. M., & Froyd, J. (2016). Informal STEM Camp Influences on Engineering Confidence. *2016 IEEE Frontiers in Education Conference Proceedings*, Paper presented at the 46th Annual Frontiers in Education Conference: The Crossroads of Engineering and Business. Erie, PA.
- Capraro, R. M., Capraro, M. M., Nite, S. B., Barroso, L. R., & Brooks, C. (2016). Impact for Female Students of an Integrated STEM PBL Summer Curriculum on Content Knowledge Mastery and Post-Secondary Matriculation. *2016 IEEE Frontiers in Education Conference Proceedings*, Paper presented at the 46th Annual Frontiers in Education Conference: The Crossroads of Engineering and Business. Erie, PA..
- Bicer, A., Nite, S. B., Capraro, M. M., & Capraro, R. M. (2016). Assessment techniques in mathematics: A literature review. In R. V. Nata (Ed.), *Progress in Education Volume 39* (270-288). Hauppauge, NY: Nova Science Publishers, Inc.
- Bicer, A., & Nite, S. B. (2016). Egg drop parachute PBL. In M. M. Capraro, J. G. Whitfield, M. J. Etchells, & R. M. Capraro (Eds.). *A Companion to Interdisciplinary STEM Project-Based Learning: For Teachers by Teachers* (2nd edition) (pp. 47-52). Rotterdam, The Netherlands: Sense.
- Burkhead, M. & Nite, S. B. (2016). Transforming teacher technology use: Results from summer institute training. In P. Bogacki. *Electronic Proceedings of the 28th International Conference on Technology in Collegiate Mathematics*. Norfolk, VA: Pearson.
- Capraro, R. M., Barroso, L. R., Nite, S., Rice, D., Lincoln, Y. S., Young, J., & Young, J. (2016, In Press). Developing a useful and integrative STEM disciplinary language. *International Journal of Education in Mathematics, Science and Technology*. DOI: 10.18404/ijemst.XXXXX
- Nite, S. B., Allen, G. D., Bicer, A., & Morgan, J. (2016). Student engagement in a summer bridge program for engineering calculus success. *Electronic Proceedings of the 2016 Hawaii University International Conferences Science, Technology Engineering, Art, Math & Education Conference*. Honolulu, HI: Hawaii University International Conferences.

- Nite, S. B., Allen, G. D., Capraro, R. M., Bicer, A., & Morgan, J. (2016). Supporting engineering education through calculus success. In S. T. Smith, Y. Y. Lim, A. Bahadori, N. Lake, R. V. Padilla, A. Rose, & K. Doust. *Proceedings of the 27<sup>th</sup> Annual Conference of the Australasian Association for Engineering Education*. Australasian Association for Engineering Education Conference: The Changing Role of the Engineering Educator for Developing the future Engineer. Coffs Harbour, Australia: Southern Cross University, Lismore, NSW 2480, Australia.
- Nite, S. B., Allen, G. D., Morgan, J., Bicer, A., & Capraro, R. M. (2016). Engineering calculus bridge program success: Comparing variation results. In *Proceedings of the American Society for Engineering Education 2016*, Paper ID# 16610 presented at ASEE's 123rd National Conference and Exposition. New Orleans, LA: American Society for Engineering Education, Washington DC.
- Nite, S. B., Houlahan, M., Tacka, P., & Moreno, P. (2016). Improving music dictation skills for music teachers: Effects of Kodály Methodology. *Electronic Proceedings of the 2016 Hawaii University International Conferences Science, Technology Engineering, Art, Math & Education Conference*. Honolulu, HI: Hawaii University International Conferences.
- Öner, A. T., Nite, S. B., Capraro, R. M., & Capraro, M. M. (2016). From STEM to STEAM: Students' beliefs about the use of their creativity. *The STEAM Journal*, 2(2), Article 6. DOI: 10.5642/steam.20160202.06
- Boedeker, P., Capraro, R. M., Capraro, M. M., & Nite, S. B. (2015). Women in STEM: The Impact of STEM PBL Implementation on Performance, Attrition, and Course Choice of Women. *2015 IEEE Frontiers in Education Conference Proceedings*, Paper presented at the 45<sup>th</sup> Annual Frontiers in Education Conference. El Paso, TX (952-959).
- Capraro, M. M., Nite, S. B., Kopparla, M., Capraro, R. M., Morgan, J. & Barroso, L. (2015). Appropriate technology in STEM education: Using a rubric to assess iPad apps. In *Proceedings of E-Learn: World Conference on E-Learning in Corporate, Government, Healthcare, and Higher Education 2015* (pp. 1502-1508). Chesapeake, VA: Association for the Advancement of Computing in Education (AACE).
- Houlahan, M., Nite, S. B., Tacka, P., & Moreno, P. (2015). The effect of a learning and teaching model on the melodic dictation skills of K-12 music teachers. In L. G. Chova, A. L. Martínez, & I. C. Torres. *Proceedings of EDULEARN15 Conference*. Paper presented at 7<sup>th</sup> International Conference on Education and New Learning Technologies, Barcelona, Spain (6508-6514). IATED Academy.
- Morgan J, Capraro R.M., Capraro M.M., Nite S.B. (2015) Increasing the STEM pipeline: Impact of a multi-faceted STEM organization, QScience Proceedings (World Congress on Engineering Education 2014) 2015:23 <http://dx.doi.org/10.5339/qproc.2015.wcee2014.23>
- Morgan, J., Nite, S. B., Allen, G. D., Capraro, M. M., Capraro, R. M., & Pilant, M. (2015). Improving engineering calculus success through a summer program. In C. A. Shoniregun & G. A. Akmayeva. *IICE-2015 Proceedings*. Paper presented at Ireland International Conference on Education, Dublin, Ireland (298-301). Southernhay, Basildon Essex, SS14 1EB, UK: Infonomics Society.
- Nite, S. B., Morgan, J., Allen, G. D., Capraro, R. M., & Capraro, M. M. (2015). Effective technology for a calculus bridge program: Bringing education home. In A. Oo, A. Patel, T. Hilditch, & S. Chandran. *Proceedings of the 26<sup>th</sup> Annual Conference of the Australasian Association for Engineering Education*. Australasian Association for Engineering Education Conference: Blended Design and Project Based Learning: a future for Engineering Education, Geelong, Australia: School of Engineering, Deakin University, Victoria, Australia.
- Nite, S. B., Houlahan, M., Tacka, P., & Moreno, P. (2015). The effect of Kodály training on music teachers' sight singing skills. *Literacy Information and Computer Education Journal*, 6(3), 2013-2019.
- Nite, S. B., Morgan, J., Allen, G. D., Capraro, R. M., Capraro, M. M., & Pilant, M. (2015). A bridge to engineering: A personalized precalculus (bridge) program. *2015 IEEE Frontiers in Education Conference Proceedings*, Paper presented at the 45<sup>th</sup> Annual Frontiers in Education Conference: Launching a New Vision in Engineering Education. El Paso, TX (2053-2058).
- Nite, S., Bicer, A., Reeves, L., Barroso, L. & Capraro, M. (2015). Online professional development: Challenges of observation of secondary classroom simulation. In *Proceedings of E-Learn: World Conference on E-Learning in Corporate, Government, Healthcare, and Higher Education 2015* (pp. 358-364). Chesapeake, VA: Association for the Advancement of Computing in Education (AACE).
- Nite, S. B., Houlahan, M., Tacka, P., & Moreno, P. (2015). Improving music teachers' musicianship skills. In C. A. Shoniregun & G. A. Akmayeva. *IICE-2015 Proceedings*. Paper presented at Ireland International Conference on Education, Dublin, Ireland (207-211). Dublin: Infonomics Society.
- Tacka, P., Houlahan, M., Nite, S. B., & Moreno, P. (2015). Pedagogical effects of music professional development: Writing musical lesson plans. In L. G. Chova, A. L. Martínez, & I. C. Torres. *Proceedings of ICERI 2015*

- Conference. Paper presented at *8th International Conference of Education, Research, and Innovation*, Seville, Spain (4434-4442). IATED Academy.
- Capraro, M. M., & Nite, S. B. (2014). STEM integration in mathematics standards. *Middle Grades Research Journal*, 9(3), pp. 1-10.
- Nite, S. B., Morgan, J., Capraro, R. M., Allen, G. D., & Capraro, M. M. (2014). Improving success in engineering calculus: Design of a bridge program. In A. Bainbridge-Smith, Z. Qi, & G. Gupta. *Proceedings of the 25th Annual Conference of the Australasian Association for Engineering Education*. Australasian Association for Engineering Education Conference: Engineering the Knowledge Economy: Collaboration, Engagement and Employability, Wellington, New Zealand: School of Engineering and Advanced Technology, Massey University.
- Capraro, M. M., Capraro, R. M., Nite, S., Morgan, J. R., & Peterson, C. A. (2014). Does inclusion of the arts in STEM project-based learning increase motivation for learning for urban students in informal settings? *Proceedings of the International Conference on Urban Education*. Paper presented at International Conference on Urban Education: Building and Sustaining Global Partnerships for Learning and Development, Montego Bay, Jamaica (204-208). Charlotte, NC: The Urban Education Collaborative.
- Nite, S., Capraro, M. M., Morgan, J. R., Peterson, C. A., & Capraro, R. M. (2014). Pathways to Engineering: Mathematics as a Mediator of Engineering Success. *2014 IEEE Frontiers in Education Conference Proceedings*, Paper presented at the 44<sup>th</sup> Annual Frontiers in Education Conference: Opening Doors to Innovation and Internationalization in Engineering Education. Madrid, Spain (2160-2164).
- Capraro, M. M., Capraro, R. M., Morgan, J. R., Nite, S., & Peterson, C. A. (2014). Science, Technology, Engineering and Mathematics (STEM) Education: A Longitudinal Examination of Secondary School Intervention. *2014 IEEE Frontiers in Education Conference Proceedings*, Paper presented at the 44<sup>th</sup> Annual Frontiers in Education Conference: Opening Doors to Innovation and Internationalization in Engineering Education. Madrid, Spain (1382-1388).
- Nite, S. B. & Allen, G. D. (2014). Increasing Calculus II success with a bridging program. *Electronic Proceedings of the 2014 Hawaii Education and S.T.E.M. Conference*. Honolulu, HI: Hawaii University International Conferences.
- Capraro, R. M., Capraro, M. M., Nite, S. B., & Morgan, J. (2014). STEM project based learning: A workforce enhancing model. *Tex's CEO Magazine*, May/June, 16-17.
- Nite, S. B. & Allen, G. D. (2014). Student characteristics that help predict success in calculus: Results from a summer precalculus program. In P. Bogacki (Ed.). *Electronic Proceedings of the 26th International Conference on Technology in Collegiate Mathematics*. Norfolk, VA: Pearson.
- Nite, S. B. (2014). Mathematical misconceptions. In C. R. Reynolds, K. J. Vannest, & E. Fletcher-Janzen (Eds.), *Encyclopedia of special education: A reference for the education of children, adolescents, and adults with disabilities and other exceptional individuals* (4th ed., pp. 1622-1623). Hoboken, NJ: John Wiley and Sons.
- Allen, G. D., Nite, S. B., Pilant, M. S., & Whitfield, J. (2013). Using a math placement exam to develop a personalized precalculus program. In P. Bogacki (Ed.). *Electronic Proceedings of the 25th International Conference on Technology in Collegiate Mathematics*. Norfolk, VA: Pearson.
- Nite, S. B. (2013). Energy Math Lessons for Math Classes. *Focus on Content and Pedagogy*, 5(4).
- Nite, S. B. (2013). Book Review of "Math for the Frightened: Facing Scary Symbols and Everything Else that Freaks You Out About Mathematics." *The Mathematics Teacher*, 106(9). 717.
- Froyd, J. E., Hurtado, D., Lagoudas, M. Z., Nite, S. B., Hobson, M., Hodge, J., & Monroe, J. (2012, October). *Increasing access to engineering*. Frontiers in Education 42nd Annual Conference Proceedings, pp. 1-6. Seattle, WA.
- Nite, S. B., & Nite, S. G. (2012). Test Bank to accompany *Modeling with Mathematics: A Bridge to Algebra 2*, 2<sup>nd</sup> edition and *Modeling with Mathematics: A Fourth Year Course*. New York, NY: W. H. Freeman and Company.
- Nite, S. B., Allen, G. D., Sledge, S., & Whitfield, J. (2012, March). Retention through remediation: Enhancing Calculus I success. In P. Bogacki (Ed.). *Electronic Proceedings of the 24th International Conference on Technology in Collegiate Mathematics*. Norfolk, VA: Pearson.
- Nite, S. B. Preparing for engineering calculus I: Analysis of a placement exam and summer program. Bridging secondary mathematics to post-secondary calculus: A summer bridge program. Unpublished dissertation. Texas A&M University, College Station. (2012).
- Nite, S. B. (2011). TAMU AP Institutes: 2011-2012. *Focus on Content and Pedagogy*, 3(6).
- Nite, S. B. (2010). The net of a cone. *Focus on Content and Pedagogy*, 2(4).

- Nite, S. B. (2009). Using Polya's problem solving process in the mathematics classroom to prepare for high stakes testing. *Focus on Content and Pedagogy*, 1(3).
- Nite, S. B. (2009). Mathematics instructional coaching – What does it mean? *Focus on Content and Pedagogy*, 1(7).
- Lege, J., Bell, R., Davis, M., & Nite, S. (2001). *Mathematical models with applications*. New York, NY: W. H. Freeman and Company.

### **Aggie STEM Online Professional Development Series**

- Nite, S. B. (2016). Effective questioning strategies. *Aggie STEM Online Professional Development Series*. College Station, TX.
- Currens, K. A. & Nite, S. B. (2016). Proportionality concepts for middle school. *Aggie STEM Online Professional Development Series*. College Station, TX.
- Nite, S. B., & Currens, K. A. (2016). Connections between representations of linear functions. *Aggie STEM Online Professional Development Series*. College Station, TX.
- Nite, S. B. (2014). Introduction to STEM project-based learning. *Aggie STEM Online Professional Development Series*. College Station, TX.
- Nite, S. B. (2014). Implementing a PBL: Benny's bee business. *Aggie STEM Online Professional Development Series*. College Station, TX.
- Nite, S. B. (2014). Writing a PBL part 1: What TEKS should I cover? *Aggie STEM Online Professional Development Series*. College Station, TX.
- Nite, S. B., & Nite, S. G. (2014). Writing a PBL part 2: Developing the ill-defined task. *Aggie STEM Online Professional Development Series*. College Station, TX.
- Nite, S. B., & Nite, S. G. (2014). Writing a PBL part 3: Engage, explore, explain. *Aggie STEM Online Professional Development Series*. College Station, TX.
- Nite, S. B., & Nite, S. G. (2014). Writing a PBL part 4: Refinement and differentiation. *Aggie STEM Online Professional Development Series*. College Station, TX.
- Nite, S. B., & Nite, S. G. (2014). Writing a PBL part 5: Formative and summative assessment. *Aggie STEM Online Professional Development Series*. College Station, TX.
- Nite, S. B., & Nite, S. G. (2014). Professional learning communities. *Aggie STEM Online Professional Development Series*. College Station, TX.
- Nite, S. B., & Nite, S. G. (2014). Designing and applying rubrics. *Aggie STEM Online Professional Development Series*. College Station, TX.
- Nite, S. B., & Nite, S. G. (2014). The student centered classroom. *Aggie STEM Online Professional Development Series*. College Station, TX.

### **Publications/Presentations Submitted (Pending)**

- Nite, S. B., Capraro, R. M., Bicer, A., & Morgan, J. (2017, October). Studying mathematics in high school and college: Summer bridge program student beliefs. Paper abstract submitted to the *2017 IEEE Frontiers in Education Conference: The Crossroads of Engineering and Business*. Indianapolis, IN.
- Currens, K. A., Nite, S. B., & Bicer, A. (2017, October). Mathematics bridge programs: Bringing discussion into the college classroom. Paper abstract submitted to the *2017 IEEE Frontiers in Education Conference: The Crossroads of Engineering and Business*. Indianapolis, IN.
- Bicer, A., Nite, S. B., Capraro, R. M., Capraro, M. M., & Barroso, L. R. (2017, October). Moving from STEM to STEAM: The effects of information STEM learning on students' creativity and problem solving skills with 3D printing. Paper abstract submitted to the *2017 IEEE Frontiers in Education Conference: The Crossroads of Engineering and Business*. Indianapolis, IN.
- Nite, S. B., Bicer, A., & Capraro, R. M. (2017) Mathematics teacher two-year journey: Project-based learning. Chapter submitted to *Annual Perspectives in Mathematics Education 2017*.

## **CONFERENCES**

### **National/International**

- Nite, S. B., Allen, G. D., Bicer, A., Morgan, J., & Barroso, L. R. (2017, June). College Freshman Beliefs About Studying and Learning Mathematics: Results from a Summer Engineering Calculus Bridge Program.

- Proposal accepted and paper submitted to *2017 American Society for Engineering Education Annual Conference & Exposition*, Columbus, Ohio.
- Bicer, A., Nite, S. B., Reeves, L., Capraro, R. M., & Morgan, J. R. (2017, April). Mathematics teacher collaboration with online technology integration. Paper accepted to *2017 NCTM Research Conference*. San Antonio, Texas.
- Bicer, A., Capraro, R. M., Capraro, M. M., & Nite, S. B. (2017, April). Improving educational opportunities for underrepresented students: The educational impact of T-STEM academies. Paper accepted for the annual American Educational Research Association (AERA), San Antonio, TX.
- Bicer, A., Ozfidan, B., Capraro, M. M., Capraro, R. M., & Nite, S. B. (2017, April). A meta-analysis: The effects of writing interventions on students' mathematics success. Paper accepted to *2017 AERA Annual Meeting, Knowledge to Action: Achieving the Promise of Equal Education Opportunity*. San Antonio, Texas.
- Nite, S. B., Allen, G. D., Bicer, A., & Capraro, R. M. (2017, April). Strengthening precalculus skills in a summer program for engineering students. Paper accepted to *2017 AERA Annual Meeting, Knowledge to Action: Achieving the Promise of Equal Education Opportunity*. San Antonio, Texas.
- Nite, S. B., Allen, G. D., Bicer, A., & Capraro, R. M. (2017, April). Precalculus program for prospective engineering students. Paper accepted to *2017 NCTM Research Conference*. San Antonio, Texas.
- Barroso, L. R., Nite, S. B., Morgan, J. R., Bicer, A., Capraro, R. M., & Capraro, M. M. (2016, March). Using the engineering design process as the structure for project-based learning: An informal STEM activity on bridge-building. Paper presented at *2016 IEEE Integrated STEM Education Conference (ISEC)*, Princeton, NJ, 249-256.
- Nite, S. B., Houlahan, M., Tacka, P., & Moreno, P. (2017, March). Musicianship and Pedagogical Skills of Music Teachers: The Impact of a Model of Learning and Instruction shaped by Kodály Concept. Poster proposal accepted to *Organization of American Kodály Educators 2017 National Conference*, Philadelphia, PA.
- Nite, S. B., Allen, G. D., Capraro, R. M., Bicer, A., & Morgan, J. (2016, December). Supporting engineering education through calculus success. Paper presented at *27<sup>th</sup> Australasian Association for Engineering Education Conference*. Coffs Harbour, Australia.
- Nite, S. B., Allen, G. D., Capraro, R. M., Bicer, A., & Morgan, J. (2016, December). Supporting engineering education through calculus success. Paper presented at the *27<sup>th</sup> Australasian Association for Engineering Education Conference*. Coffs Harbour, Australia.
- Bicer, A., Nite, S. B., Capraro, R. M., Barroso, L. R., Capraro, M. M., & Froyd, J. (2016, October). Informal STEM Camp Influences on Engineering Confidence. Paper presented at the *2016 IEEE Frontiers in Education Conference: The Crossroads of Engineering and Business*. Erie, PA.
- Capraro, R. M., Capraro, M. M., Nite, S. B., Barroso, L. R., & Brooks, C. (2016, October). Impact for Female Students of an Integrated STEM PBL Summer Curriculum on Content Knowledge Mastery and Post-Secondary Matriculation. Paper presented at the *46<sup>th</sup> Annual Frontiers in Education Conference (FIE), 2016*. Erie, PA.
- Nite, S. B., Kirby, K., & Bicer, A. (2016, October). Learning how to manage money: A financial literacy project for middle school students. Presented at *Annual Conference for Middle School Education*. Austin, Tx.
- Nite, S. B., Allen, G. D., Morgan, J., Bicer, A., & Capraro, R. M. (2016, June). Engineering calculus bridge program success: Comparing variation results. Paper presented at *American Society for Engineering Education 2016*, Paper ID# 16610, ASEE's 123rd National Conference and Exposition. New Orleans, LA.
- Öner, A. T., Nite, S., Capraro, M. M., Capraro, R. M., & Barroso, L. (2016, May). *Examination of students' creativity in a STEM camp: Exploring STEAM*. International Conference on Education in Mathematics, Science and Technology (ICEMST), Bodrum, Turkey.
- Nite, S. B., Brooks, 'C., Rice, D., & Bicer, A. (2016, February). Diversity matters in informal STEM experiences. Poster presented at *Climate Matters Conference: A Dialogue on Climate, Inclusion and Respect*. Texas A&M University, College Station, Tx
- Allen, G. D., Goldsby, D., & Nite, S. B. (2016, March). Testing unfairness – mathematics and simulations. Presented at the *28<sup>th</sup> Annual International Conference on Technology in Collegiate Mathematics*.
- Burkhead, M. & Nite, S. B. (2016, March). Transforming teacher technology use: Results from summer institute training. Presented at the *28<sup>th</sup> Annual International Conference on Technology in Collegiate Mathematics*. Atlanta, GA.
- Boedeker, P., Capraro, R. M., Capraro, M. M., & Nite, S. B. (2015, October). Women in STEM: The Impact of STEM PBL Implementation on Performance, Attrition, and Course Choice of Women. Paper presented at the *45<sup>th</sup> Annual Frontiers in Education Conference*. El Paso, TX.

- Nite, S. B., Morgan, J., Allen, G. D., Capraro, R. M., Capraro, M. M., & Pilant, M. (2015, October). A bridge to engineering: A personalized precalculus (bridge) program. Paper presented at the 45<sup>th</sup> Annual Frontiers in Education Conference: Launching a New Vision in Engineering Education. El Paso, TX.
- Nite, S. B., Morgan, J., Allen, G. D., Capraro, R. M., & Capraro, M. M. (2015, December). Effective technology for a calculus bridge program: Bringing education home. Paper presented at the 26<sup>th</sup> Annual Conference of the Australasian Association for Engineering Education. Australasian Association for Engineering Education Conference: Blended Design and Project Based Learning: a future for Engineering Education, Geelong, Australia.
- Nite, S. B., Morgan, J., Capraro, R. M., Allen, G. D., & Capraro, M. M. (2014, December). Improving success in engineering calculus: Design of a bridge program. Paper presented at the Australasian Association for Engineering Education Conference: Engineering the Knowledge Economy: Collaboration, Engagement and Employability, Wellington, New Zealand.
- Nite, S., Capraro, M. M., Morgan, J. R., Peterson, C. A., & Capraro, R. M. (2014, October). Pathways to Engineering: Mathematics as a Mediator of Engineering Success. Paper presented at the 44<sup>th</sup> Annual Frontiers in Education Conference: Opening Doors to Innovation and Internationalization in Engineering Education. Madrid, Spain.
- Capraro, M. M., Capraro, R. M., Morgan, J. R., Nite, S., & Peterson, C. A. (2014, October). Science, Technology, Engineering and Mathematics (STEM) Education: A Longitudinal Examination of Secondary School Intervention. Paper presented at the 44<sup>th</sup> Annual Frontiers in Education Conference: Opening Doors to Innovation and Internationalization in Engineering Education. Madrid, Spain.
- Allen, G. D., Whitfield, J. G., Pilant, M., & Nite, S. B. (2014, March). Retention through remediation: Enhancing Calculus I success. Poster presentation at 20<sup>th</sup> Annual Grantees Meeting for NSF's Science, Technology, Engineering and Mathematics Talent Expansion Program (STEP). Washington, D. C.
- Allen, D., Nite, S., Whitfield, J. (March 2014), *Improving Student Success in Foundational Courses in Math, Science, Technology, Engineering, & Math. Talent Expansion Program (STEP) Annual Grantees Meeting*, Washington D.C.
- Nite, S. B. (2011, November). Predicting and improving success in engineering calculus, *School Science and Mathematics Association Convention*: Colorado Springs, Colorado.
- October 2011. Conference Board of the Mathematical Sciences Forum on *Teaching Teachers in the Era of the Common Core*, Reston, VA.
- Heyen, K., Hollowell, E., Keever, E., Mullins, D., Murphy, K., Taylor, D., Wayne, S., Easterling, J., Nite, S., Capraro, M. M., & Capraro, R. (2011, August). Problem posing around the Czech Republic. Poster presentation at the International Symposium on Elementary Mathematics Teaching. Charles University: Prague, Czech Republic.
- Nite, S. B. (2011, August). Teaching through problem solving. Poster presentation at the International Symposium on Elementary Mathematics Teaching. Charles University: Prague, Czech Republic.
- March 2011. National Council of Teachers of Mathematics (NCTM) Conference, Indianapolis, Indiana.
- October 2010. Conference Board of the Mathematical Sciences Forum on *Content-Based Professional Development for Teachers of Mathematics*, Reston, VA.
- Nite, S. B. (2009). The legacy of Charlie Brown. Organization of Educational Historians: Chicago, Illinois.
- October 2009. Conference Board of the Mathematical Sciences Forum on the *Content and Assessment of School Mathematics*, Reston, VA.
- October 2008. Conference Board of the Mathematical Sciences *National Math Panel Forum*, Washington, D.C.
- Nite, S. B. (2003). The Real MMA Classroom. National Council of Teachers of Mathematics, San Antonio, TX.

## Regional

- Bicer, A., Nite, S. B., Capraro, M. M., Barroso, L. R., Suarez, M., Kwon, J., & Rice, D. (2017, February). The effects of STEM summer camp on student interest in STEM careers. Paper presented at Southwestern Educational Research Association Conference, San Antonio, TX.
- Bicer, A., Perihan, C., Nite, S. B., Capraro, R. M., Currens, K. A., Suarez, M., & Lee, Y. (2017, February). The effects of cognitive behavior therapy on students' mathematics anxiety. Paper presented at Southwestern Educational Research Association Conference, San Antonio, TX.
- Nite, S. B., Bicer, A., Salazar, K., Lee, Y., Barroso, L. R., & Capraro, R. M. (2017, February). The effect of STEM project-based learning on mathematics teacher instruction. Paper presented at Southwestern Educational Research Association Conference, San Antonio, TX.

- Nite, S. B., Bicer, A., Currens, K. A., Salazar, K., & Capraro, M. M. (2017, February). STEM summer camp affect on spatial drawing ability. Paper presented at Southwestern Educational Research Association Conference, San Antonio, TX.
- Nite, S. B., Bicer, A., Currens, K. A., Lee, Y., Bevan, D., & Barroso, L. R. (2017, February). Summer precalculus bridge program: Use of electronic resourses. Paper presented at Southwestern Educational Research Association Conference, San Antonio, TX.
- Oner, A. T., Nite, S., Capraro, M. M., & Capraro, R. M. (2015, February). *The effect of 3D design on students' belief about "A" of STEAM*. Paper presented at the Southwest Educational Research Association 38<sup>th</sup> Annual Meeting, San Antonio, TX.
- Nite, S. B. (2014, November). *Matrix operations in gas and oil operations*. Presented at the National Council of Teachers of Mathematics (NCTM) Regional, Houston, Texas.
- Peterson, C. A., Oner, A. T., Nite, S. B., Bicer, A., Capraro, R. M., Capraro, M. M., Morgan, J. R., & Sahin, A. (2013, September). *Aggie-STEM: Improving Student Outcomes with Professional Development that Incorporates STEM-Based Project-Based Learning and Professional Learning Communities*. Paper presented at the regional meeting of the MSP Program, Washington D.C.
- Nite, S. B. (2012, October). *Introducing the logistic function*. Presented at the National Council of Teachers of Mathematics Regional Conference, Dallas, Texas.
- Younes, R., Nite, S. B., & Rangel, A. (2012, February). *The effects of sustained professional development in STEM project based learning: Results from one Texas school district*. Paper presented at Southwest Educational Research Association Conference, New Orleans, LA.
- Nite, S. B. (2011, February). *Engineering calculus success at Texas A&M University*. Paper presented at Southwest Education Research Association, San Antonio, Texas.
- Nite, S. B. (2010, February). *An introduction to canonical correlation analysis*. Paper presented at Southwest Educational Research Association, New Orleans, Louisiana.

## State

- Nite, S. B. (2016, February). *Function Transformations Geometrically*. Presented at Conference on the Teaching of Mathematics 6-12, Huntsville, TX.
- Nite, S. B. (2015, February). *Using sine curves to locate oil pockets for drilling*. Presented at the Conference on the Teaching of Mathematics 6-12, Huntsville, TX.
- Lopez, R., Nite, S. B., & Hill, K., (2015, January). *Facilitating inquiry-based learning from theory to practice*. Presented at The 8<sup>th</sup> Annual Texas STEM Conference: Pathways to Student Success in STEM, Austin, TX.
- Nite, S. B. (2014, July). *Matrix operations in gas and oil operations*. Presented at the Conference for the Advancement of Mathematics Teaching (CAMT), Fort Worth, Texas.
- Nite, S. B. & Whittern, S. (2014, July). *Where are the manatees?* Presented at the Conference for the Advancement of Mathematics Teaching (CAMT), Fort Worth, Texas.
- Nite, S. B. & Whittern, S. (2014, July). *Whose are these bones?* Presented at the Conference for the Advancement of Mathematics Teaching (CAMT), Fort Worth, Texas.
- Nite, S. B. (2014, April). *Videos, discussions, and online practice to support online mathematics learning*. Presented at the Texas Distance Learning Association, Corpus Christi, Texas.
- Nite, S.B. (2014, February). *Modeling Oil Consumption and Production*. Presented at the Sam Houston State University Conference on Mathematics Teaching 6-12, Huntsville, Texas.
- Nite, S. B. & Peterson, C. A. (2014, February). *Benny's bee business: An interdisciplinary PBL Example*. Presented at the Texas STEM Conference, Dallas, Texas.
- Nite, S. B. (2013, July). *Quadratic function formula through finite differences*. Presented at the Conference for the Advancement of Mathematics Teaching: San Antonio, Texas.
- Lackey, D. J. & Nite, S. B. (2013, July). *The exponential function and calculator regression*. Presented at the Conference for the Advancement of Mathematics Teaching: San Antonio, Texas.
- Tung, K. & Nite, S. B. (2013, July). *Developing area formulas*. Presented at the Conference for the Advancement of Mathematics Teaching: San Antonio, Texas.
- Nite, S. B. (2013, February). *Using transformations to find a model for sinusoidal data*. Presented at the Sam Houston State University Conference on Mathematics Teaching 6-12. , Huntsville, Texas.
- Nite, S. B. (2012, July). *Introducing the logistic function*. Presented at the Conference for the Advancement of Mathematics Teaching: Houston, Texas.



- Nite, S. B. & Tung, K. (2012, July). *Polygon paper folding*. Presented at the Conference for the Advancement of Mathematics Teaching: Houston, Texas.
- June 2012. TCEA 2012 Summer Conference “Tots and Technology”, Galveston, Texas.
- Nite, S. B. (2012, February). *Introducing the logistic function*. Presented at the Sam Houston State University Conference on Mathematics Teaching 6-12, Huntsville, Texas.
- May 2011. Texas Engineering Experiment Station STEP Projects Grant Conference, Dallas, Texas.
- July 2011. Conference for the Advancement of Mathematics Teaching (CAMT), Grapeland, Texas.
- June 2012. TCEA 2011 Summer Conference “Tots and Technology”, Galveston, Texas.
- Nite, S. B. (2011, February). *Cognitive demand in precalculus*. Presented at the Sam Houston State University Conference on Mathematics Teaching 6-12, Huntsville, Texas.
- Nite, S. B. & Bleyer, C. (2011, February). *Advanced quantitative reasoning: A fourth year math course for Texas students*. Presented at the Texas Association of Supervisors of Mathematics, Austin, Texas.
- October 2010. Texas Engineering Experiment Station STEP Projects Grant Conference, Houston, Texas.
- July 2010. Conference for the Advancement of Mathematics Teaching, San Antonio, Texas.
- May 2010. Texas Engineering Experiment Station STEP Projects Grant Conference, Dallas, Texas.
- Nite, S. B. & Nite, S. G. (2009). *Using Polya’s problem solving process for TAKS*. Presented at the Conference for the Advancement of Mathematics Teaching, Houston, Texas.
- Willey, V. & Nite, S. B. (2006). *Introduction to Vectors*. Conference for the Advancement of Mathematics Teaching, Houston, Texas.
- Nite, S. B. (2002). *Arithmetic to algebra: Similar processes*. Presented at the Conference for the Advancement of Mathematics Teaching, Dallas, Texas.
- Nite, S. B. (2002). *Mathematics and music: Geometric transformations*. Presented at the Conference for the Advancement of Mathematics Teaching, Dallas, Texas.
- Nite, S. B. (2000). *Mathematics and music*. Presented at the Conference for the Advancement of Mathematics Teaching, Houston, Texas.
- Nite, S. B. (1999). *Strategies for success in Algebra I*. Presented at the Conference for the Advancement of Mathematics Teaching, Dallas, Texas.
- Nite, S. B. (1998). *A sound approach to the keyboard*. Presented at the Texas Music Educators Association (TMEA) Convention, San Antonio, Texas.
- Yarborough, H. & Nite, S. B. (1998). *A discovery approach*. Presented at the Conference for the Advancement of Mathematics Teaching, San Antonio, Texas.
- Yarborough, H. & Nite, S. B. (1997). *A discovery approach*. Presented at the Conference for the Advancement of Mathematics Teaching, Houston, Texas.

## Local

- Nite, S. B. (2011, March). Predicting and improving success in engineering calculus at Texas A&M University (Student Research Week): College Station, Texas.
- Nite, S. B. (2010). Teaching functions: Laying the foundation and building through precalculus. Texas A&M University (Student Research Week): College Station, Texas..
- Nite, S. B. (2010). An introduction to canonical correlation analysis. Gonzales, Capraro, Capraro, and Thompson Research Conference: College Station, Texas.

## Invited Presentations

- Nite, S. B. (2017, February). Exploring the linear parent function with celebrity ages. *Supporting Mathematics in STEM Education – Algebra I*, College Station, Tx.
- Nite, S. B. (2016, November). Analyzing student work in mathematics. *Supporting Mathematics in STEM Education – Algebra I*, College Station, TX.
- Nite, S. B. (2016, October). Hay trailer proportions. *Supporting Mathematics in STEM Education – Algebra I*, College Station, TX..
- Nite, S. B., & Currens, K. A. (2016, October). Modeling sound waves with periodic functions. *Math Circle*, October 15, 2016. Texas A&M University, College Station, Texas.
- Nite, S. B., & Barroso, L. R. (2016, October). Exploring and modeling lung capacity with functions. *Math Circle*, October 8, 2016. Texas A&M University, College Station, Texas.

- Nite, S. B., & Bicer, A. (2016, September). Using a dilution experiment to investigate a sequence. *Math Circle*, September 20, 2016. Texas A&M University, College Station, Texas.
- Nite, S. B. (2016, September). Planning to achieve mathematical challenges. *Supporting Mathematics in STEM Education – Algebra 1*, College Station, TX.
- Nite, S. B. (2016, September). Exploring ratios and proportions with paint mixing. *Supporting Mathematics in STEM Education – Algebra 1*, College Station, TX.
- Nite, S. B. (2016, July). Rate of change explorations through cycling activities. *Supporting Mathematics in STEM Education – Algebra 1*, College Station, TX.
- Nite, S. B. (2016, July-August). Precalculus investigations. *Pathways for Retention in Engineering Programmes: Precalculus Boot Camp*, 55-hour program. Texas A&M University at Qatar, Doha, Qatar.
- Nite, S. B. (2016, July). Linear function focus in Fahrenheit-Celsius conversion. *Supporting Mathematics in STEM Education – Algebra 2*, College Station, TX.
- Nite, S. B. (2016, July). Using technology to examine distance versus time graphs. *Supporting Mathematics in STEM Education – Algebra 1*, College Station, TX.
- Nite, S. B. (2016, June, July). STEM music: A PBL. *Aggie STEM Summer Camp 2016*, College Station, TX.
- Nite, S. B. (2016, July). Observation of teaching strategies in the UAV PBL classroom. *Advanced STEM Content Teacher Collaboration*, College Station, TX.
- Barroso, L. R. & Nite, S. B. (2016, July). Advanced course student centered classrooms. *Advanced STEM Content Teacher Collaboration*, College Station, TX.
- Burkhead, M. A., & Nite, S. B. (2016, July). Using GeoGebra to enhance student learning in algebra and geometry. Invited presentation for *Pre-AP High School Mathematics, Advanced Placement Institutes*, College of Science, Texas A&M University, College Station, Texas.
- Nite, S. B. (2016, June). *Exploring Exponential Functions with the CBR and Graphing Calculator*. Aggie STEM Teacher Boot Camp, College Station, Tx.
- Nite, S. B. (2016, June). *Exploring Linear Functions with the CBR and Graphing Calculator*. Aggie STEM Teacher Boot Camp, College Station, TX.
- Nite, S. B. (2016, May). *Exploring Quadratic Functions with the CBR and Graphing Calculator*. Aggie STEM Teacher Boot Camp, College Station, Tx.
- Nite, S. B. (2016, May). *Writing a STEM PBL: Using the PBL Checklist*. Aggie STEM Teacher Boot Camp, College Station, Tx.
- Nite, S. B. (2016, March). *What Story Can We Tell?: Research Opportunities in Teacher Professional Development*. Presented at Technical Meeting of Teacher Quality Grants Program, Fort Worth, TX.
- Nite, S. B. (2016, March). *Integrated CBR Technology in Mathematics and Science Instruction*. Fallbrook Academy, Houston, Tx.
- Nite, S. B. (2016, February). *Using Mimio Clickers to Engage Students and Improve Interaction*. Fallbrook Academy, Houston, Tx.
- Nite, S. B., Capraro, M. M., Barroso, L. R., & Hammond, T. (2016, January). *Overcoming the STEM divide: Transitioning women to post secondary STEM programs*. Workshop presented at 2016 Teacher Summit and PK-12 Leadership Forum: Women in STEM, College Station, TX.
- Nite, S. B. (2016, January). *Using Polya's Problem Solving Process for Standardized Test Success*. Red Oak Independent School District, Red Oak, Tx.
- Nite, S. B. (2016, January). Comparing simple and compound interest loan and investment results. Investigations in Secondary Mathematics and Science – Middle School Mathematics. Texas A&M University, College Station, Tx.
- Nite, S. B. (2016, January). *Aggie STEM Grants Submitted Fall 2015*. Aggie STEM Retreat Spring 2016. Texas A&M University, College Station, Tx.
- Nite, S. B. (2016, January). *Aggie STEM Professional Development*. Aggie STEM Retreat Spring 2016. Texas A&M University, College Station, Tx.
- Barroso, L. R., & Nite, S. B. (2015, November). *Rigor and Questioning*. Brooks Academy of Science and Engineering, San Antonio, Texas.
- Nite, S. B. (2015, November). *Preparing a Successful Vita*. Mathematics Education Graduate Student Meeting, Texas A&M University, College Station, Tx.
- Nite, S. B. (2015, November). *Connecting Quadratic Function Representations*. Investigations in Secondary Mathematics and Science – Algebra, Texas A&M University, College Station, Tx.
- Nite, S. B. (2015, November). *Linear Patterns in Park Path Designs*. Investigations in Secondary Mathematics and Science – Middle School, Texas A&M University, College Station, Tx.

- Houlahan, M., Tacka, P., & Nite, S. B. (2015, November). *Realizing Kodály's Legacy in the American Classroom: Implications from Current Research*. Conference headliner presentation for the Eastern Division Conference of the Organization of American Kodály Educators, Lancaster, Pennsylvania.
- Nite, S. B. (2015, October). *Performance assessments for quadratic functions*. Investigations in Secondary Mathematics and Science – Algebra, Texas A&M University, College Station, Tx.
- Nite, S. B. (2015, October). *The linear parent function*. Investigations in Secondary Mathematics and Science – Middle School, Texas A&M University, College Station, Tx.
- Nite, S. B. (2015, October). *Inquiry-based learning and STEM PBL*. Investigations in Secondary Mathematics and Science, Texas A&M University, College Station, Tx.
- Reeves, L. & Nite, S. B. (2015, October). *Toothpick and macaroni pattern activities for elementary students*. Presented at the Greens Prairie Elementary School STEM Night, College Station, Tx.
- Nite, S. B. & Capraro, R. M. (2015, September). *Exploring Transformations of Functions*. Investigations in Secondary Mathematics and Science – Algebra, Texas A&M University, College Station, Tx.
- Nite, S. B. (2015, September). *Comparing Arithmetic Sequences and Linear Functions*. Investigations in Secondary Mathematics and Science – Algebra, Texas A&M University, College Station, Tx.
- Nite, S. B. (2015, July). *Algebra Performance Assessments II*. Investigations in Secondary Mathematics and Science – Algebra, Texas A&M University, College Station, Tx.
- Nite, S. B. (2015, July). *Algebra Performance Assessments I*. Investigations in Secondary Mathematics and Science – Algebra, Texas A&M University, College Station, Tx.
- Nite, S. B. (2015, July). *Investigating proportions in distance versus time graphs*. Investigation in Secondary Mathematics and Science – Middle School Mathematics, Texas A&M University, College Station, Tx.
- Nite, S. B. (2015, July). *Pedagogy and Distance versus time graphs*. Investigation in Secondary Mathematics and Science – Middle School Mathematics, Texas A&M University, College Station, Tx.
- Nite, S. B. (2015, July). *The St. Louis Arch and Quadratic Functions*. Investigations in Secondary Mathematics and Science - Algebra, Texas A&M University, College Station, Tx.
- Nite, S. B. (2015, July). *Close to 100 Numeracy*. Investigations in Secondary Mathematics and Science - Algebra, Texas A&M University, College Station, Tx.
- Nite, S. B. (2015, July). *Facilitation of STEM PBL Observation*. Aggie STEM Teacher Boot Camp and Investigations in Secondary Mathematics and Science, Texas A&M University, College Station, Tx.
- Nite, S. B. (2015, June/July). *Number and Operations and Linear Equations*. Aggie STEM Summer Camp, Texas A&M University, College Station, Tx.
- Wuensche, K., Nite, S. B., & Muller, R. (2015, June). Blackboard Collaborate Panel Discussion. Teaching with Technology Lecture Series, Instructional Technology Services, Texas A&M University, College Station, Tx.
- Nite, S. B. (2015, May). *Using Technology to Enhance Mathematics Understanding (5-day series)*. Engineering Leaders Institute for Excellence in Mathematics Education, Texas A&M University at Qatar, Doha, Qatar.
- Nite, S. B. (2015, May). *Using the TI-Navigator with the TI-Nspire CX*. Presented at Harmony Science Academy – Dallas, TX.
- Nite, S. B. (2015, March). *Getting started with the TI-Navigator*. Presented at Harmony Science Academy – Dallas, TX.
- Nite, S. B. (2015, February). *Using the CBR with the graphing calculator*. Presented at Harmony Science Academy – Dallas, TX.
- Capraro, R. M. & Nite, S. B. (2015, February). *Toothpick and catapult STEM activities for secondary students*. Presented at the Bellville ISD Science Night, Bellville, TX.
- Nite, S. B. (2015, January). *Teaching the readiness and supporting standards for STAAR Algebra I*. Presented at graduate mathematics education course, Texas A&M University, College Station, TX.
- Nite, S. B. (2015, January). *Professional learning communities*. Presented at Harmony Science Academy – Dallas, TX.
- Nite, S. B. (2014, November). *Writing a PBL part 3: Exploration and explanation*. Presented at Harmony Science Academy – Dallas, TX.
- Nite, S. B. (2014, November). *Writing a PBL part 2: Developing the ill-defined task and well-defined outcome*. Presented at Harmony Science Academy – Dallas, TX.
- Nite, S. B. (2014, October). *Writing a PBL part 1: What TEKS should I cover?* Presented at Harmony Science Academy – Dallas, TX.

- Nite, S. B., Capraro, M. M., Capraro, R. M., Bicer, A., Navruz, B. Metoyer, S., et al. (October, 2014). *Effective STEM teaching and learning: A meta synthesis and meta-analysis*. Presented at the NSTEM Collaborative Colloquium, Austin, TX.
- Nite, S. B., & Morgan, J. (2014, September). *Using Technology to Integrate Math and Science*. Houston Independent School District 2014 Secondary Science Curriculum Department Summit: Critical Thinking in Science, Houston, Tx.
- Peterson, C. A. & Nite, S. B. (2014, August). *The student-centered classroom*. Presented at Harmony Science Academy – Dallas, TX.
- Nite, S. B. & Peterson, C. A. (2014, August). *Google Chrome I: Rubrics and quizzes*. Presented at Harmony Science Academy – Dallas, TX.
- Nite, S. B. & Peterson, C. A. (2014, August). *Project-based learning example: Benny's bee business*. Presented at Harmony Science Academy – Dallas, TX.
- Nite, S. B. (2014, July). *Flu epidemic: Investigating logistic functions*. Presented at Investigations in Secondary Science and Mathematics Teacher Quality Grant Program, College Station, Tx.
- Nite, S. B. & Nite, S. G. (2014, July). *Cooling down: Investigating exponential decay*. Presented at Investigations in Secondary Science and Mathematics Teacher Quality Grant Program, College Station, Tx.
- Nite, S. B. (2014, July). *Observing a project-based learning lesson*. Presented online for Investigations in Secondary Science and Mathematics Teacher Quality Grant Program, College Station, TX.
- Nite, S. B. (2014, June). Panel on STEM Education and its Importance in our Society. Hugh O'Brian Youth Foundation Texas Gulf Coast Leadership Seminar. Galveston, Texas.
- Nite, S. B. (2014, March). Online Learning Environments. Texas Higher Education Coordinating Board Teacher Quality Grant Program Directors Meeting. Lost Pines, Texas.
- Nite, S. B. (2012, June). Problem Solving and SAT Mathematics. Aggie STEM Center Summer Math Camp. College Station, Texas.
- Nite, S. B. (2012, February). Resume building and interviewing for teachers. Texas State Teachers Association, Texas A&M University Student Chapter, College Station, Texas.
- Nite, S. B. (2012, February). Helpful hints for preparing an effective curriculum vitae. *Southwest Educational Research Association*: New Orleans, Louisiana.
- Whitfield, J. & Nite, S. B. (2012, January). Ideas to excite students about math. STEM Teacher Summit, College of Engineering and College of Science, Texas A&M University, College Station, Texas.
- Nite, S. B. (2011, June). Problem solving activities. Aggie STEM Center Summer Math Camp, College Station, Texas.
- Nite, S. B. (2009). Research in mathematics education. Gladewater Math Instructional Coaches Program: Gladewater, Texas.
- Nite, S. B. (2003). The Real MMA Classroom. Alief Mathematics Summit, Alief, Texas.
- Nite, S. B., Bertsch, K., & Miksch, R. (2001). Algebra I curriculum at Sweeny High School, Region VI Education Service Center, Huntsville, Texas.
- Nite, S. B. (2000). Mathematics and music. Clear Creek Math Models Consortium: League City, Texas.
- Nite, S. B. (1995). Career opportunities in mathematics. Math Counts: Sweeny, Texas.

## **GRANTS AND FUNDING**

### **Funded**

- 2016-2017 *Supporting Mathematics in STEM Education (SMSE)*. S. B. Nite PI, with CoPIs Allen, G. D., Capraro, R. M., Barroso, L. R. & Capraro, M. M. Texas Higher Education Coordinating Board, \$311,237. 2/01/2016-4/30/2017.
- 2015-2016 *Fallbrook ISD Professional Development*. R. M. Capraro PI, with Co-PIs Capraro, M. M. Barroso, L. B., and Nite, S. B. ISD Contract. Funded \$30,000. 9/15-8/16
- 2015-2016 *State Farm Empowering Underrepresented Students to Enter STEM Fields*. State Farm, Bloomington, IL. Robert M. Capraro PI, with Co-PIs J. Morgan, M. M. Capraro, S. B. Nite, A. Bicer, & L. Barroso. \$40,000.
- 2015-2016 *Aggie STEM Summer Camp*. R. M. Capraro PI, with Co-PIs Nite, S. B., Barroso, L. B., and Capraro, M. M. State Contract. Funded \$253,000. 5/15-4/16.
- 2014-2016 *Investigations in Secondary Mathematics and Science*, Texas Higher Education Coordinating Board, \$589,000, S. B. Nite PI and Director, with Year 2 Co-PIs Allen, G. D., Capraro, R. M., Morgan, J.,

- Capraro, M. M., & Burlbaw, L. Year 1 Co-PIs Allen, G. D., Capraro, R. M., Peterson, C. A., Burlbaw, L., Walters, L., & Green, M. Funding period: 2/1/2014-4/30/2016
- 2014-2015 *T-STEM Center Continuation*, Texas Education Agency, \$576,985, J. Morgan PI, with Co-PIs Capraro, R. M., Capraro, M. M., & Nite, S. B. Funding period: 9/01/2014-8/31/2015
- 2013-2014 *Mathematics All Around Us: Gas and Oil Applications III*, Halliburton, \$26,675, S. B. Nite PI and Director, with Co-PI Allen, G. D.
- 2012-2013 *Mathematics All Around Us: Gas and Oil Applications II*, Halliburton, \$20,000, S. B. Nite PI and Director, with Co-PI Allen, G. D.
- 2012-2014 *Connecting Algebraic Thinking and Measurement*, Texas Higher Education Coordinating Board, \$231,048, S. B. Nite PI and Director, with Co-PI Allen, G. D.
- 2013 *Flip Your Course*, Texas A&M University Instructional Technology Services, \$2,000.
- 2012-2013 *Large Sections in Business Mathematics: Interaction, Communication, and Personalization through Technology*, TAMU Instructional Technology Services, \$75,000, Evaluation Team.
- 2011-2012 *Mathematics All Around Us: Gas and Oil Applications*, Halliburton, \$26,700, S. B. Nite PI and Director, with Co-PI Allen, G. D.
- 2009-2014 *Retention Through Remediation: Enhancing Calculus I Success*, National Science Foundation (#0856767, \$1.27 million, G. D. Allen PI, with Co-PIs Pilant, M., Nite, S. B. & Whitfield, J.
- 2009-2012 *Functions in Algebra 1 & 2 with Vertical Alignment*, Teacher Quality Grant, Funded by Texas Higher Education Coordinating Board, \$291,576, G. D. Allen PI, with Co-PIs Nite, S. B. & Whitfield, J.
- 2009-2011 Contract for Texas Education Agency Mathematics Instructional Coaches Service Provider, West Sabine ISD, \$18,500, G. D. Allen PI, with Co-PIs Nite, S. B. (Director) & Whitfield, J.
- 2009-2011 Contract for Texas Education Agency Mathematics Instructional Coaches Service Provider, Gladewater ISD, \$18,150, G. D. Allen PI, with Co-PIs Whitfield, J. (Director), & Nite, S. B.
- 2008-2010 Contract for Texas Education Agency Mathematics Instructional Coaches Service Provider, El Paso ISD, \$82,000, G. D. Allen PI, with Co-PIs Whitfield, J., & Nite, S. B.
- 2008-2009 Teacher Quality Grant, Funded by Texas Higher Education Coordinating Board, \$82,000, G. D. Allen PI, with Co-PIs Whitfield, J., & Nite, S. B.
- 2002-2004 Ninth Grade Success Initiative Grant, Funded by Texas Education Agency, PI and Director, \$85,000.
- 1999 AP Calculus Grant, Funded by Texas Education Agency, PI and Director, \$3000.
- 1995 Computer Grant, Funded by Brazosport College, PI and Director, \$2000.

### **Pending**

- 2017 *Supporting Mathematics in STEM Education* (cont.), \$470,882.
- 2016 *Aggie STEM Research Action in Mathematics and Science (ARMS) Conference*. PI, with Co-PIs Capraro, R. M., Capraro, M. M., Barroso, L. R., & Bicer, A. Submitted to Spencer Foundation, 4/17-1/18, \$50,000.
- 2016 *Experiencing STEM Through the Eyes of Women STEM Professionals*. Co-Pi with Capraro, R. M., Capraro, M.M., Barroso, L., & Bicer, A. Submitted to High Tech High Heels, 5/17-8/17 \$21,000.
- 2016 *Aggie Academy for Governor's Science and Technology STEM Champions*. PI: Capraro, M. M. CoPIs: Capraro, R. M., Barroso, L., Nite, S. B., & Bicer, A. The Texas Workforce Commission (Dept. of Labor). Submitted for \$100,000, 3/17 - 8/17.
- 2016 *Evaluating the Effects of Teaching Digital Citizenship Through Social Networks for Children*. Co-PI with Hammond, T., Valentine, S., & Wallis, C. Submitted to National Science Foundation, 6/17 – 5/20, \$470,000.
- 2016 *Collaborative Research: Community Based STEM Pathways to Higher Education*, L. R. Barroso, PI, with CoPIs Capraro, R. M., Capraro, M. M., Nite, S. B., & Bicer, A. National Science Foundation, \$2,258,684. 9/1/2017-8/31/2021.
- 2016 *RET Site: Research Experiences on Pen and Touch Technology*. T. Hammond, PI, with CoPIs Shyrock, K., Valentine, S., and Nite, S. B. National Science Foundation, \$600,000. 5/01/2017 – 4/30/2020.

### **Unfunded**

- 2016 *Pre-service Mathematics Education with Byte*. S. B. Nite PI, with CoPIs Capraro, R. M., Bicer, A., Barroso, L. R., & Capraro, M. M. Google, \$299,751. 1/01/2017-12/31/2018.
- 2016 Nite, S. B., Barros, L. R., Capraro, R. M., & Capraro, M. M. (2016). STEM After School for Under Represented Teens (STEM ASURT). Grant Pre-proposal submitted to U.S. Department of Education Investment in Innovation (i3). 1/1/2017 - 12/31/2021, \$2,493,031.

- 2016 *Braitmayer Aggie STEM Teacher Boot Camp*. S. B. Nite, PI, with CoPI R. M. Capraro. Submitted to Braitmayer Foundation, \$35,000. 8/1/2017-7/31/2018.
- 2015 *Pioneering Research for Informal STEM Models (PRISM)*. R. M. Capraro PI, with CoPIs L. Barroso, M. M. Capraro, & S. B. Nite. Submitted to National Science Foundation, \$143,974. 4/1/2016-3/31/2017.
- 2015 *Utilizing Teaching Lab Video Clips in Teacher Professional Development for STEM Project-Based Learning*. S. B. Nite, PI, with CoPIs L. R. Barroso, R. M. Capraro, & M. M. Capraro. Submitted to National Science Foundation, \$422,511. 9/1/2016 – 8/31/2019.
- 2015 *The National Informal STEM Learning Resource Center @ Aggie STEM (NISLRC@Aggie STEM)*. R. M. Capraro PI, with CoPIs L. Barroso, E. McTigue, S. B. Nite, M. M. Capraro, Z. Eslami, & L. Q. Dixon. Submitted to National Science Foundation. \$5,000,000. 3/16-2/21.
- 2016 *Successful Bridge Program Characteristics*. S. B. Nite PI with Co-PI R. M. Capraro. Submitted to Spencer Foundation Small Research Grant, \$44, 344. 8/1/2016-10/31/2017.
- 2015 *University Consortium for Promoting and Re-Invigorating STEM Education (UC-PRiSE)*. R. M. Capraro PI, with CoPIs L. Barroso, M. M. Capraro, F. Bernat,, F. Nave, & S. B. Nite. Submitted to the National Science Foundation for \$2,873, 504. 10/16-8/21.
- 2015 *Examining Secondary Mathematical Achievement and Cognitive Engagement Structures*. R. M. Capraro PI with CoPIs, L. Barroso, Capraro, M. M., & S. B. Nite. Submitted to National Science Foundation. \$500,000. 4/01/2016-3/31/2019.
- 2015 *STEM After School for Under Represented Teens (STEM ASURT)*. S. B. Nite PI, with CoPIs L. Barroso, R. M. Capraro, & M. M. Capraro. Submitted to U. S. Department of Education, \$2,573,489. 1/01/2016-12/31/2020.
- 2015 *iSucceed*. Submitted as subaward for Grand Prairie ISD grant submitted to U. S. Department of Education. PI with Barroso, L., Capraro, R. M., & Capraro, M. M., \$390,709. Funding period 1/01/2016-12/31/2018.
- 2015 *High Quality STEM Education through Problem Solving: Drinkable, Fishable, and Swimmable Water*. Submitted to Texas A&M University System Area 41 Institute, The Chancellor’s Area 41 Challenge Grants. Co-PI with Barroso, L., Capraro, M. M., Capraro, R. M., Hill, K. K., & Morgan, J., \$25,000.
- 2014 *University Consortium for Promoting and Re-Invigorating STEM Education (UC-PRiSE)*. Submitted to the National Science Foundation. Co-PI with Morgan, J., Capraro, R. M. & Capraro, M. M.. \$2,906,209. Funding period 10/01/15-8/31//20.
- 2014 *Early College High School and T-STEM Technical Assistance and Coaching*. Co-PI with Capraro, R. M., Morgan, J., & Capraro, M. M. Submitted to Texas Education Agency, \$1,977,000. Funding period 9/01/2014-8/31/2015.
- 2014 *Integrating Computing with STEM for the 21<sup>st</sup> Century*. Submitted to Texas Education Agency, \$1,977,000.
- 2014 *Developing STEM Education Professionals: A Research Based Approach*. Submitted to King Abdulaziz and His Companions Foundation for Giftedness and Creativity – MAWHIBA: Saudi Arabia. Co-PI with Capraro, R. M., Morgan, J., & Capraro, M. M. \$5,287,204.
- 2014 *Evaluating Conformity of Children in Social Networks*. Submitted to National Science Foundation. Co-PI with Hammond, T., Liew, J., & Smith, S. \$1,200,000.
- 2014 *Mathematics All Around Us: Gas and Oil Applications IV*, Halliburton, \$26,257.
- 2013 *TAMUS Consortium for STEM Teaching and Learning*. Submitted to Texas Education Agency. Co-PI with Capraro, R. M., Capraro, M. M., Morgan, J., Allen, G. D., Scott, T., & Peterson, C. A. et al. \$10,000,000.
- 2013 *Project KidGab: Using Social Networking to Promote Positive School Climate and Student Engagement for 21<sup>st</sup> Century Learners in the Primary Grades*. Submitted to U. S. Department of Education. Co-PI with Liew, J. & Hammond, T., \$1,500,000.
- 2013 *Increasing Student Interest in Computing Applications through Sketch Recognition*. Submitted to National Science Foundation. Co-PI with Hammond, T. \$599,999.

### **AWARDS, LISTINGS, AND HONORS**

- 2016 Outstanding Commitment to Excellence and Innovation in Distance Learning by an Organization (4-Year Higher Education), Awarded to Aggie STEM by Texas Distance Learning Association, 3-29-2016.
- 2013 Selected to attend 2014 CE21 PI and Community Meeting, Orlando, FL, Jan 7-8, 2014.
- 2012 Distinguished Honor Graduate, College of Education and Human Development, Texas A&M University, College Station, Texas.
- 2010 Texas State University Representative for Texas A&M University Academic Convocation.
- 2010 Marquis Who’s Who in America.

- 2009 First Place Session Winner, Texas A&M University Student Research Week presentation, 2009.
- 2009 Second Place Teaching, Learning, and Culture Department, Texas A&M University Student Research Week presentation.
- 2009 Kappa Delta Pi.
- 2009 Pinnacle Honor Society.
- 2009 Marquis Who's Who in America.
- 2008 Outstanding Service Award, Department of Mathematics, Texas A&M University, 2008.
- 2007 Outstanding Educator, College of Education & Human Development, Texas A&M University, 2007.
- 2005 Panel for Secondary Teaching, Mathematics Career Fair, Texas A&M University.
- 2002-2004 Fellow, Texas Academy of Mathematics Educational Leaders (TAMEL).
- 1995 Piper Professor Nominee to the state Minnie Piper Foundation, Brazosport College, Freeport, Texas. Who's Who Among America's Teachers, 6<sup>th</sup>, 7<sup>th</sup>, 8<sup>th</sup>, 9<sup>th</sup> editions.

### **EDITORSHIP, REVIEWER**

- 2016- Editorial Review Advisory Board, International Journal of Research and Innovation in Applied Science (IJRIA).
- 2016- Reviewer, Conference Proposals, National Association for Research in Science Teaching.
- 2014-2016 Review Board, Hawaii University International Conferences.
- 2015-2016 Reviewer, Conference Proposals, American Society of Engineering Education (ASEE).
- 2015 Reviewer, *Journal of Research in Mathematics Education (JRME)*.
- 2015 Reviewer, Conference Proposals, Institute of Electrical and Electronic Engineers Frontiers in Education (FIE).
- 2015-2016 Reviewer, National Council of Teachers of Mathematics (NCTM) Conference Proposals.
- 2012-2016 Reviewer, *Problems, Resources, and Issues in Mathematics Undergraduate Studies (PRIMUS)*.
- 2011-2015 Reviewer, *The High School Journal*.
- 2014 Reviewer, Conference Proposals, Australasian Association for Engineering Education (AAEE).
- 2014-2015 Reviewer, Conference Proposals, American Educational Research Association (AERA).
- 2012 Reviewer, *The Mathematics Teacher*.
- 2011-2012 Reviewer, Deans Award Papers, Southwest Educational Research Association.
- 2011, 2016 Reviewer, Conference Proposals, Southwest Educational Research Association.
- 2009 Contributor, Billstein, B, Libeskind, L., & Lott, J. *Insider's Guide for Problem Solving Approach to Mathematics for Elementary School Teachers*, Addison-Wesley Publishing.
- 2006 Grant Reader for Texas Education Agency T-STEM Academies Grants, Austin, Texas.
- 2002 Grant Reader for Texas Education Agency Ninth Grade Success Initiative, Austin, Texas.
- 2009-present Associate Editor, *Focus on Mathematics Pedagogy and Content*.

### **Book Reviewer**

- Modeling with Mathematics: A Bridge to Algebra 2*, 2<sup>nd</sup> edition, W. H. Freeman, 2012.
- Mathematics for Elementary Teachers: A Contemporary Approach*, Wiley Publishing, 2006.
- Modeling with Mathematics: A Bridge to Algebra 2*, W.H. Freeman, 2005.

### **COURSES DEVELOPED\*/TAUGHT**

#### **University**

- Math 131 Mathematical Concepts – Calculus
- Math 141 Business Mathematics I
- Math 150 Functions, Trigonometry, and Linear Systems
- Math 166 Topics in Contemporary Mathematics II
- Math 365 Structure of Mathematics I
- Math 366 Structure of Mathematics II
- Math 367 Basic Concepts of Geometry
- Math 403 Mathematics and Technology

Math 689\* Special Topics – Teaching Mathematics at the Collegiate Level  
 Math 1311 Fundamentals of Mathematics  
 Math 1315 College Algebra

**Community College**

Math 0304	Fundamentals of Mathematics	Math 1324	Math for Business and Economics I
Math 0306	Beginning Algebra	Math 1325	Math for Business and Economics II
Math 0308	Intermediate Algebra	Math 1342	Probability and Statistics
Math 1314	College Algebra	Math 2312	Precalculus
Math 1316	Trigonometry	Music 1301	Introduction to Music, Piano

**High School**

Physical Science, Algebra I, Geometry, Algebra II, Mathematics of Money, Computer Math\*, Computer Science\*, Mathematical Models with Applications\*, SAT/ACT Prep Course\*, Advanced Mathematical Application\*, Pre-AP Precalculus, AP Calculus, AP Physics

**SERVICE**

2016 Root Cause Analysis Study of Snook ISD, Department of Teaching Learning and Culture, College of Education and Human Development, Texas A&M University, College Station, Tx.

2015 Hour of Code Organizer for Secondary Students, Aggie STEM, Texas A&M University.

2014-2015 Blackboard Collaborate Pilot Group, Instructional Technology Services, Texas A&M University, College Station, Tx.

2015 Judge, I-SWEEEP 2015 Olympiad, Harmony Public Schools, George R. Brown Convention Center, Houston, Texas.

2012-2013 MATH 36x Committee, Department of Mathematics, College of Science, Texas A&M University, College Station, Texas.

2012-2013 Space Allocation Committee, Department of Mathematics, College of Science, Texas A&M University, College Station, Texas.

2011-2012 Advisory Board, Developmental Education Demonstration Project Evaluation, Texas A&M University, Texas Higher Education Coordinating Board.

2010-2011 Lecturer Seminar Series Co-Coordinator, Department of Mathematics, College of Science, Texas A&M University, College Station, Texas.

2010 Advisory Committee for the Creation of the Lecturer Core Committee, Department of Mathematics, College of Science, Texas A&M University, College Station, Texas.

2009-present Brazos Valley P-16 Council, Bryan, Texas.

2009 Discussion Leader, Lecturer Meeting with External Review Committee, Department of Mathematics, College of Science, Texas A&M University, College Station, Texas.

2009-2011 Mathematics Program Representative, TLAC Graduate Student Association, Department of Teaching, Learning, and Culture, College of Education and Human Development, Texas A&M University, College Station, Texas.

2009 TLAC Representative, Graduate Student Council, Texas A&M University.

2009 Legislative Committee, Graduate Student Council, Texas A&M University.

2008-2009 Committee for Core Success in Mathematics, Department of Mathematics, College of Science, Texas A&M University, College Station, Texas.

2008-2009 Mathematics Awareness Committee, Department of Mathematics, College of Science, Texas A&M University, College Station, Texas.

2007-2009 Mathematics 141 Redesign Committee, Department of Mathematics, College of Science, Texas A&M University, College Station, Texas.

2007 Assistant Chairman, Rooms Committee, National Council of Teachers of Mathematics (NCTM) Regional Conference, Houston, Texas.

2005-2006 Mentor for Mathematics Majors (10), Department of Mathematics, College of Science, Texas A&M University, College Station, Texas.

2003-2005 Treasurer, Parent Teacher Organization, Sweeny High School, Sweeny Independent School District, Sweeny, Texas.



- 1998-2005 Site Based Management Committee, Sweeny High School, Sweeny Independent School District, Sweeny, Texas.
- 1998-2002 Facilities Committee, Columbia-Brazoria Independent School District, West Columbia, Texas.
- 1999-2001 Superintendent's Advisory Committee, Columbia-Brazoria Independent School District, West Columbia, Texas
- 1999-2001 Site Based Management Committee, Columbia High School, Columbia-Brazoria Independent School District, West Columbia, Texas.
- 1998 Treasurer, Bond Promotion Committee, Columbia-Brazoria Independent School District, West Columbia, Texas.
- 1995-1997 Treasurer, Parent Teacher Organization, West Columbia Junior High School, West Columbia Independent School District, West Columbia, Texas.
- 2003 Workshop. The Real MMA Classroom. Alief Mathematics Summit, Alief Independent School District, Alief, Texas.
- 1997 Invited Talk. Rhythm Activities and Child Development. Elementary Physical Education Class, Brazosport College, Lake Jackson, Texas.
- 1995-1996 Co-Chairperson, Composition Festival, Brazosport Music Teachers Association, Lake Jackson, Texas.
- 1994-1996 Co-Chairperson, Keyboard Kapers, Brazosport College, Lake Jackson, Texas.

### **CONSULTING**

- 2015-2016 Project-based Learning writer. Southern Regional Education Board, Atlanta, Georgia.
- 2014-2015 Texas State Kodály Program evaluation. Texas State University, San Marcos, Texas.
- 2012-2013 New Teacher Mentor and Inservice Provider. Hempstead Independent School District, Hempstead, Texas.
- 2010 Inservice Provider, Using Manipulatives in the Elementary Classroom. West Sabine Independent School District, Pineland, Texas.
- 2007 Inservice, Kodály Method and Mathematics Integration. Angleton Independent School District: Angleton, Texas.
- 2006-2007 Inservice (online through conferencing software). Teaching Algebra 1. Mathis Independent School District, Mathis, Texas and Stafford Municipal School District, Stafford Texas.
- 2005 Inservice Provider. Using the CBR/CBL in the Mathematics Classroom. Snook Independent School District, Snook, Texas.
- 2005 External Evaluator, Teacher Quality Grant, Texas A&M University, College Station, Texas.
- 2001-2005 Consultant and Teacher Trainer for Mathematical Models with Applications, W. H. Freeman Publishers, New York, NY.
- 2000-2005 Contract Writer for Geometry and Algebra 2, Region IV Education Service Center, Houston, Texas
- 2000-2005 Contract Writer for Mathematical Models with Applications, Mathematical Models with Applications, COMAP, Boston, MA.
- 2001 Inservice Provider. Algebra I Curriculum at Sweeny High School, Region VI Education Service Center, Huntsville, Texas.
- 2000-2001 Workshop (5 days). TEXTEAM Algebra II/Precalculus Institute. Sweeny Independent School District, Sweeny, Texas.
- 1999-2000 Workshop (5 days). TEXTEAM Mathematical Models for Secondary Teachers Institute. Sweeny Independent School District, Sweeny, Texas.
- 1998-2005 Inservice Provider. Teaching Secondary Mathematics. Sweeny Independent School District, Sweeny, Texas.
- 1995-2003 Workshop. Using Finale to Notate a Song Collection. Kodály Graduate Program, Texas State University, San Marcos, Texas.
- 1997 Inservice Provider. Using Equation Editor for Mathematics. Sweeny Independent School District, Sweeny, Texas.
- 1996-1997 Inservice Provider. Computers for Preschool Teachers. Ms. Missy's Day Care, West Columbia, Texas.
- 1996-1997 Inservice Provider. Music for Preschool Teachers. Ms. Missy's Day Care, West Columbia, Texas.
- 1996 Inservice Provider. Music for Elementary Teacher, Grades K-6. Gause Independent School District, Gause, Texas.

1994 Inservice Provider. Introduction to Finale. Angleton Independent School District, Angleton, Texas.

### **PROFESSIONAL ASSOCIATIONS**

2014-present Member, American Educational Research Association (AERA).  
2013-present Member, Texas Distance Learning Association (TxDLA).  
2011-present Member, School Science and Mathematics Association (SSMA).  
2003-present Member, National Council of Teachers of Mathematics (NCTM).  
2000-present Member, Texas Association of Supervisors of Mathematics (TASM).  
2010-present Member, National Council of Supervisors of Mathematics (NCSM).  
2011-present Member, Texas Computer Education Association (TCEA).  
2011-2012 Graduate Student Representative, Executive Council, Southwest Educational Research Association (SERA).  
2010-2011 TAMU Graduate Student Representative, Graduate Student Council, Southwest Educational Research Association (SERA).  
2009-2012 Mathematics Education Representative, Teaching, Learning, and Culture (TLAC) Graduate Student Association.  
2009 TLAC Representative, Graduate Student Council (GSC), Texas A&M University.